Criteria 3.7.1

SCHOOL OF SCIENCE AND HUMANITIES

DEPARTMENT OF VISUAL COMMUNICATION

Seminar: – National Virtual Seminar on Innovation in AI Tools for Effective PR Communication

Duration: One Day

Date: 27.04.2024

Overview:

National Virtual Seminar on Innovation in AI Tools for Effective PR Communication in association with the Public Relations Society of India (PRSI), Chennai Chapter, a National Virtual Seminar on the theme "Innovation in AI Tools for Effective PR Communication" is set to take place on April 27, 2024. The event is organized with the aim of exploring how cutting-edge AI tools can be leveraged to enhance the efficacy of communication strategies in the field of Public Relations (PR). The seminar will be held in virtual mode, making it accessible to a wider audience across the country.

Poster:



Participants List

S.No	Name	Institution Name/Profession
1.	KACHI ISHWARI LATESH	Sarhad college
2.	Dr. SATHVIK S	KARNATAKA STATE RURAL DEVELOPMENT AND PANCHAYAT RAJ UNIVERSITY
3.	Ms. S. Priyanga	SNS College of Technology
4.	NEETHU V A	Madhav University
5.	Dr.V S D REKHA	PRASAD V POTLURI SIDDHARTHA INSTITUTE OF TECHNOLOGY
6.	Ananya Basu Roy Chowdhury	University of Calcutta
7.	Dr. JISHA K	Indian Institute of Mass Communication, Kottayam
8.	DEEPA S	SNGS COLLEGE PATTAMBI, PALAKKAD KERALA
9.	Sumit	Dewan vs group of institutions meerut
10.	Manasa palacharla	Tcs
11.	Dr.JISHA K	Indian Institute of Mass Communication, Kottayam
12.	jasmin migdad	Vel's institute of science technology and advanced studies , chennai
13.	Dr. N. Nandhini	SNS College of Technology
14.	VINAY KUMAR MISHRA	C.M.P DEGREE COLLEGE UNIVERSITY OF ALLAHABAD
15.	Pooja Singh	Shyama Prasad Mukherjee Govt PG College, University of Allahabad
16.	R RADHIKA	Vaagdevi Engineering college, warangal, Telangana
17.	D PRIYADHARSHINI	RVS COLLEGE OF ARTS AND SCIENCE
18.	Anagha Shedolkar	Sarhad college
19.	Parameswari. A	M. Ct. M. Chidambaram. Chettyar. School,

20.	CVHARAN	undrstood
21.	Sherley Velenteena Andrade	St Aloysius (Deemed to be University) Mangalore
22.	Dr. G Vasanth	Dwaraka Doss Goverdhan Doss Vaishnav College
23.	PRANAB RANA	SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY
24.	SANTHASORUBINI S	RVS COLLEGE OF ARTS AND SCIENCE
25.	Pavan Shreejith MP	Periyar Maniammai Institute of Science and Technology
26.	Dr. SATHVIK S, ASSISTANT PROFESSOR, DEPARTMENT OF COMMERCE AND MANAGEMENT	KARNATAKA STATE RURAL DEVELOPMENT AND PANCHAYAT RAJ UNIVERSITY
27.	VIVEK KUMAR MAURYA	University of Allahabad
28.	Vishnu Datta	Shyama Prasad Mukherjee Government Degree College, Phapha Mau, Prayagraj(University of Allahabad)
29.	NSS.Santhiya	Bishop Heber College
30.	Nidumukkala Bharathi	Gurunank Nanak Institute of Technology
31.	Shilpy Sharma	Quantum University
32.	R.VIKASHINI	RVS College Of Arts and Science,Sulur
33.	SAROJA RAJAN	MCTM CHIDAMBARAM CHETTYAR SCHOOL
34.	Shilpa Narang	JIMS-JCC, Rohini, Delhi
35.	More Rutuja Sanjay	IIT
36.	Sarita Yadav	Guru Tegh Bahadur 4th Centenary Engineering College
37.	K SARALA	MCTM CHIDAMBARAM CHETTYAR SCHOOL
38.	Nirmala.S	M.CT.M CHIDAMBARAM CHETTYAR SCHOOL
39.	Nidumukkala Bharathi	Gurunank Institute of Technology

40.	Dr.S.Umarani	RVS College of Arts and Science
41.	Subhadip Sarkar	Seacom Skills University
42.	Swetha Prabhakaran	Srm University Ramapuram campus
43.	Haripriya R	SNS College of Technology
44.	T.A.Padmasini	MCTM CHIDAMBARAM CHETTYAR SCHOOL
45.	K.S.SUBHASHINI	Mctm
46.	MEKWAGO Miradouce	University of Yaoundé I
47.	V.G.Dakshinya	Psgr Krishnammal College for women
48.	Pooja Gupta	Shyama Prasad Mukherjee Govt P.G College, University of Allahabad
49.	Abraham Richard M	BIHER
50.	Dr ARUN GOURAV RAM	BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH
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52.	Sophia Lawrence. S.P	Mctm chidambaram chettyar Senior Secondary school
53.	TAPADMASINI	MCTM CHIDAMBARAM CHETTYAR SCHOOL
54.	HINDUMATHI G	M.CT.M.CHIDAMBARAM CHETTYAR SCHOOL
55.	Ashish Vittalrao Kalwale	SRIBS BIOTECHNIQS PVT. LTD.
56.	G N SOWJANYA	Koneru lakshmaiah Education foundation
57.	Sophia Lawrence.S.P	Mctm chidambaram chettyar Senior Secondary school
58.	Padmavathy S	MCTM chidambaram chettyar sr sec school
59.	Ashish Pandey	IMS ENGINEERING COLLEGE
60.	MANORANJAN SAHOO	C.V. RAMAN GLOBAL UNIVERSITY
61.	Dr. ARANYA K SASI	SREE NARAYANA COLLEGE, KOLLAM
62.	Dr. Chetna Arora	Lady Irwin College, University of Delhi
63.	PURNAMASHI SAHOO	Mediaid Marketing Services Private Limited

64.	Mrs. R. Nirmala	Mahendra Arts and Science College
65.	Mr.D.RAJKUMAR	V.H.N.S.N COLLEGE, VIRUDHUNAGAR
66.	Mr. K. Satish Kumar	Vaagdevi College of Engineering Warangal
67.	Prof. Yogendra Kumar	VSP GOVERNMENT PG COLLEGE KAIRANA,SHAMLI UP
68.	Dr R T Subhalakshmi	Hindusthan Institute of Technology
69.	Basit Mushtaq Mir	GDC Anantnag
70.	Ms. Pooja Muralidhar Savant	Sandip University Nashik
71.	Silliya Stanly	Vels Institute of Science Technology and Advanced Studies (VISTAS, Pallavaram)
72.	Dr.T.Shirley Devakirubai	Madras Christian College
73.	Dr.R.Josphin	SRM institute of science and technology Vadapalani
74.	VARSHA N	PET Research Foundation, Mandya
75.	Keerthi Dharani C	The American College
76.	SACHIN KUMAR	CENTRAL UNIVERSITY OF JAMMU
77.	Isha Birlay	International School of Management
78.	GHANCHI SALMABEN ASGRALI	GOKUL GLOBAL UNIVERSITY
79.	Dr. Poonam Arora	Skips
80.	B. JOHN PETER	GBHS, ANNA NAGAR
81.	G. Bharanitharan	Dr. N. Raja
82.	Sumit	Dewan vs group of institutions meerut
83.	Er. DEEPAK TIWARI DSK	RAIPUR, CHHATTISGARH
84.	Karan Siwach	Institute of Technology and Science Ghaziabad
85.	Nivethasri Govindaswamy	BIHET
86.	Vijay Vasudeva B B	Sethu Institute Of Technology, Virudhunagar
87.	M. ROSHNI	Theivanai ammal college for women (autonomous)
88.	Dr. Mohammed Shafeer K P	SAFI Institute of Advanced Study (Autonomous) Vazhayoor

89.	Dr.S.Savithri	Guru Nanak College (Autonomous)
90.	K. Akshaya	Dr.N.G.P. Arts and Science college
91.	SHARATH S	J N N College of Engineering
92.	Dr R Ramyadevi	SRM INSTITUTE OF SCIENCE AND TECHNOLOGY
93.	Chitra Sahu	Shambhunath institute of pharmacy
94.	F JOSEPHINE DAYANA	Achariya arts and science college Puducherry
95.	Vedavalli N	MCTM chidambaram chettyar school
96.	Dr. P. Muthu Pandian	Saveetha Engineering College, Thandalam, Chennai
97.	Siya choudhary	Dewan vs Institute of Management
98.	HAREESH S	Shrimati Indira Gandhi College
99.	VIJAYA RAMINENI	DVR & Dr HS MIC COLLEGE OF TECHNOLOGY
100.	M UMA SHANKARI	Shrimati Indira Gandhi College Trichy-2
101.	Sweta Amrutlal Dabhi	Sardar Patel University
102.	Gokul balaji S	Arulmigu arthanareeswarar arts and science college
103.	Dhanmoni Das	Chaiduar College
104.	Prof.Shruthi.N.G	AIT
105.	Umamaheswari M	KIT -KALAIGNARKARUNANIDHI INSTITUTE OF TECHNOLOGY
106.	UMESH KUMAR	RAJDHANI COLLEGE OF DELHI UNIVERSITY
107.	Kavita S Shivappayyanamath	Shri.S.R.Kanthi Arts, Commerce and Science College, Mudhol
108.	Dr.Prasanthi Kumari Ravala	Andhra Christian college
109.	S Beryl	Vels Institute of science technology and Advanced studies
110.	Shwetha P Bhat	Srinivas University
111.	Dr.S.SHAMEEM	Cauvery College for Women (Autonomous) Trichirapplli
112.	Sreeja.S	Sathyabama University

113.	Ms.Nikita Liladhar Saklani	L.A.D and Smt R.P. College for Women, Nagpur
114.	Kumbhar Pratiksha Ratnakar	Sarhad College of Arts Commerce and science
115.	Sweekrati Sachan	Jain University
116.	RAMADUGU SAINATHA	KRISHNA BAKSTHI TV
117.	Dr SABITHA BANU A	PSGR Krishnammal College for Women
118.	Mr.S.Silambarasan	Meenaakshi Ramasamy Arts and Science College
119.	Thasina Murthi S	Excel college for commerce and science
120.	G. Sriman	Sathyabama Institute of science and technology
121.	Mr.N.LENIN RAKESH	BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH
122.	SUMAIYA BANU V I	C. ABDUL HAKEEM COLLEGE OF ENGINEERING AND TECHNOLOGY
123.	N Chandru	Dr.N.G.P.Arts and Science College
124.	Gayatri Prakash Thakre	Kavikulguru Institute of Technology and Science,Ramtek
125.	Dr. Sudeshna Das	REVA University, Bangalore
126.	Goutham Krishna P K R	Anna University, CEG
127.	Girraj prajapati	Shrinathji institute of technology and engineering
128.	Aashish Dhiman	Dewan Institute of Management Studies
129.	Aysha Muradh PC	Safi Institute of Advanced Study (Autonomous), Vazhayoor
130.	Dr. Sukanta Biswas	West Bengal university of animal and Fishery Sciences
131.	RITHANYA.M	Dr.NGP ARTS AND SCIENCE COLLEGE
132.	Philomina Lawrence Dsouza	Sterling School
133.	Klarine Judith K	SRM Faculty of Science and Humanities
134.	Ashok M Prasad	St Aloysius (Deemed to be University), Mangaluru

135.	Ms. L. RASIGA PRIYA	Velalar College of Engineering and Technology
136.	JEEVAN N S	Arihant institute of commerce and management
137.	Ganesh Brahmadev Mite	Shivaji University Kolhapur
138.	Kalyani kondapalli	Raghu college of Pharmacy
139.	Haripriya.S	Dr.N.G.P. Arts and science college
140.	Mrs.R.Kavitha	C.Abdul Hakeem College of Engineering and technology, Melvisharam
141.	Sarita Yadav	Guru Tegh Bahadur 4th Centenary Engineering College
142.	Himani B S	St Aloysius College
143.	SIVAPRIYA.S	Dr.N.G.P Arts and Science college
144.	Himanshu Barhaiya	LNCT Engineering College, Bhopal
145.	Varshinipriya B.	Auxilium college
146.	Dr Shikha Bhagat	Christ (Deemed to be University)
147.	Dr. P Sudha	Chevalier T.Thomas Elizabeth College for Women
148.	INDERJOT KAUR	PANJAB UNIVERSITY
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150.	SHUBHASHREE D	Dr.N.G.P.ARTS AND SCIENCE COLLEGE
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152.	P. Pavithra	The Gandhigram Rural Institute (DTBU)
153.	SRINITHI R S	Dr.N.G.P Arts and Science college
154.	SAURABH RASTOGI	C.M.P. Degree College, University Of Allahabad, Prayagraj
155.	Harriesh S	Dr. N.G.P Arts and Science College
156.	Sakshi Jadoun	Raja Mahendra Pratap Singh State University, Aligarh
157.	BANKIEW SHAPHRANG SUTING	RiBhoi College

158.	Amith Kumar J. Prabhu	Seth Ram Bahadur Singh Gujarati College, Cochin - 2
159.	Kowsalya Devi.B	Dr. NGP Arts and science college
160.	Dr.VASANTHA RUDRAMALLA	Acharya Nagarjuna University
161.	Anuvito T Yeputhomi	St. Joseph University Nagaland
162.	TAMMINENI SHYAM SWAROOP	YOGI VEMANA UNIVERSITY, KADAPA
163.	P.Pandi Deepa	Agni college of technology
164.	D DAMODARA REDDY	Malla Reddy College of Engineering & Technology
165.	Bommisetti Triveni	DVR&Dr.HS MIC college of technology
166.	Sushmit Bagchi	IIT Bombay
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168.	Dr. Archana Thakre	PGTD Of education, RTMNU
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170.	Arpan Kumar De	Meghnad Saha Institute of Technology
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172.	S.Saraswathi	B pharmacy viper
173.	Anjali Pal	Dewan
174.	Mrinal Dutta	B.H.B.College,Sarupeta,Bajali
175.	DR.SANDIP DEB	Holy Cross College, Agartala
176.	Dr. B. REBECCA	Marri Laxman Reddy Institute of Technology and Management
177.	Dr N Arivarasan	Swami Dayananda College of Arts and Science Manjakkudi
178.	Dr. Jayshri Patil	Dr. D. Y. Patil centre for Management and Research
179.	F.isaac	Sathiyabhama
180.	Kalaiselvi. K	M.CT.M Chidhambaram chettyar school
181.	Ms.G.Sakila	Arcot Sri Mahaalakshmi Women's College - Villapakkam
182.	Pavithra Puthran	Srinivas University

183.	JINI KUMARI M	T.S Srinivasan centre for Polytechnic College and Advanced Training
184.	JEETHA	Srinivas University
185.	NACHIKETA DAS	GOVERNMENT OF WEST BENGAL
186.	T. Kiruthika	CARE college of Arts and Science
187.	VENKATESHA NC	JNNCE
188.	Er.Kashyapa Kanti Sahu	PJ College of Management and Technology
189.	Koritala Bhargavi	Chalapathi institute of engineering and technology
190.	M.G.ABINES.	Dr.N.G.P.Arts and science college
191.	Prof. Patel Nidhi Lalitkumar	B.P.H.E. Society's Ahmednagar College, Ahmednagar
192.	Dr.V.Monisha	Vellalar College for Women
193.	B KEERTHI SAMHITHA	KLEF
194.	Mrs. Nutan Singh	GDM Girls Degree College ModiNagar
195.	SHANTHINI K S	KIT Kalaignarkarunanidhi Institute of Technology
196.	Charushila Manoj Chaudhari	Godavari institute of management and research Jalgaon Maharashtra
197.	Prof. Sushmitha	Institute of Journalism & Mass Communication, Srinivas University
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200.	PRIYA BASKARAN	THIRU. VI. KA. GOVERNMENT ARTS COLLEGE
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207.	Padigepati Moulali	Acharya Institute of Graduate Studies
208.	Samsamyilei Hinglak	St Joseph University Nagaland
209.	PAVITHRA. N	Dr.Raja
210.	Rupa Saha	Holy Cross College
211.	BHARATHI V. J.	SIMATS - SAVEETHA UNIVERSITY
212.	JESSICA LYNGDOH	RiBhoi College
213.	SATHISH C	K.S.Rangasamy College of Arts and Science
214.	Kirti Tyagi	Dewan institute of management studies Meerut
215.	Tanvir Kaur	Lovely Professional University
216.	Hemamalini.R	M.CT.M Chidambaram Chettyar School
217.	Dharmireddy Uma Maheswari	Vignan's Institute of Engineering for Women
218.	Rampratap Singh Raghav	Dayalbagh Educational Institute,Agra
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233.	MOUNIKA SAMUDRAPU	DVR & Dr HS MIC College of technology
234.	Forum D. Bharad	Central University of Gujarat
235.	DHARAMDEEP RANDEV	INSTITUTE OF MASS COMMUNICATION AND MEDIA TECHNOLOGY
236.	Sangattamilarasi.S	Dr.N.G.P Arts and Science College
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238.	Hasini Anugandula	Sathyabama Institute of Science and Technology
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240.	Mr.D.Rajkumar, V.H.N.S.N College	V.H.N.S.N COLLEGE
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242.	Dr. S. A. JAMEEL	JAMAL MOHAMED COLLEGE (AUTONOMOUS)
243.	Balaji Vantipalli	Srkr Engineering College
244.	Dr. KANIMOZHI SUGUNA S	Arulmigu Arthanareeswarar Arts and Science College Tiruchengode
245.	Dr. A Satya Phani Kumari	Anil Neerukonda Institute of Technology and Sciences
246.	Dr.S.RASHEED MANSOOR ALI	JAMAL MOHAMED COLLEGE
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248.	Dr. Sukanta Biswas	West Bengal university of animal and Fishery Sciences
249.	N.Dhanya Lakshmi	KG College of Arts and Science
250.	J. MIZAL REX	College

251.	Askar Basha M	C.Abdul Hakeem College of engineering and technology
252.	Shruthi HK	Acharya Institute of Graduate Studies
253.	SUSHMITHA.V	Nil
254.	J Murali	PBR Visvodaya Institute of Technology & Science
255.	Pooja Raju Gaikwad	Jaikranti College of computer science and management studies katraj Pune.
256.	Sachin N J	Kuvempu University
257.	Dr. Snehlata Ghatol	Sardar Patel College of Education, SPEC Bakrol
258.	Supriyatai Kailashrao Ahire	Sandip Institute of technology and research centre Nashik
259.	P.MERCY	SMK FOMRA INSTITUTE of TECHNOLOGY
260.	Pavithra Puthran	Srinivas University
261.	DHARANEESH A	DHARANEESH A
262.	Deepak Katiyar	Kanpur Institute of Technology and Pharmacy
263.	Dr. A. Sathya	KG College of Arts and Science
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268.	Dr. Prashant Sen	Eklavya University,Damoh, M.P.
269.	K.Darshini	Dr. NGP arts and science college
270.	Ravikumar Goudar	Shri S.R.Kanthi Arts Commerce and Science College Mudhol
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272.	Ms. S. Julie Violet Joyslin	Shri Nehru Maha Vidyalaya College of Arts and Science

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274.	Dr. Tejas B. Modi	Kalol Institute of Management (MCA)
275.	Sangita Vikas Ghuge	Sarhad College of Arts Commerce and Science Katraj Pune
276.	DR.LAKDE SHEETAL DEOBAJI	Sarhad College of Arts Commerce and Science Katraj
277.	HARITHA MANDHADAPU	DVR & Dr.HS MIC COLLEGE OF TECHNOLOGY
278.	M. KARTHIGAIESWARI	VHNSN College
279.	MADHUSHREE MK	Acharya Institute of Graduate Studies
280.	SNEHA PRASAD	SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY
281.	NAWAZ SHERIEF M	CSI COLLEGE OF ENGINEERING
282.	V.T Deepa nandhini	Sethu Institute of Technology
283.	Mrs Rupali Vijay Shinde	Y B Patil polytechnic Akurdi Pune
284.	SHANTHINI K S AP(SI.G) KIT - CBE	KIT Kalaignarkarunanidhi Institute of Technology
285.	Janaki Eswaran	Standard Public School - ICSE BOARD
286.	K.Sharnitha	Dr.N.G.P Arts and science college
287.	Prof.Snehal Sudhakar Patwardhan	PES College of Engineering
288.	Janani.N	Dr.N.G.P arts and science college
289.	Samithrasri.S.J	Dr.N.G.P Arts and Science college
290.	S .HARSITH	Kv beml nagar,kolar gold field
291.	Gomathi M	Mahendra Arts and Science College (Autonomous)
292.	Vaghela Aniruddhsinh Kirtisinh	Central University of Gujarat
293.	Dr.N.Illambirai	Mannar Thirumalai Naicker College
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295.	Sree Deetchanya.M	Dr.NGP Arts and Science college
296.	Dr.R.Preetha	M.O.P Vaishnav College for Women

297.	Srinishanthi A K	M.CT.M CHIDAMBARAM CHETTYAR SCHOOL
298.	Whilma John	MA.M. COLLEGE OF ENGINEERING
299.	Shruti Bansal	Dewan vs group of institutions
300.	Dr. Salu Dsouza	Christ University - India, Lavasa campus, Pune
301.	VIDHYA G	Mahendra Arts & Science College
302.	Kiran Mishra	University of Calcutta
303.	MOHAMMED NIKHAT FATHIMA	BVC INSTITUTE OF TECHNOLOGY AND SCIENCE
304.	V.Akshaya	AI tools for effective communication
305.	Mradula Yadav	Krishna Institute of technology
306.	Balaji Vantipalli	TCS
307.	Anusha kondepati	MLRITM
308.	LAVANYA SUDULA	DVR & DR HS MIC COLLEGE OF TECHNOLOGY
309.	Subash Chandra Sarangi	Global Academy of Mentoring and Facilitation for Multidimensional Enrichment (GAME & FAME)
310.	Arun. R	Dr. N.G.P arts and science
311.	Poovitha S S	DR.NGP Arts and Science College
312.	MEKALA M	Swami Dayananda College of Arts and Science, Manjakudi
313.	Jyoti Kumari Gupta	Vinoba Bhave University, Hazaribag Jharkhand
314.	Kadali Durga Srihitha	BVCITS
315.	P.MURUGESWARI	VHNSN COLLEGE (AUTONOMOUS)
316.	MALATHI M	VIVEKANANDHA COLLEGE OF ARTS AND SCIENCES FOR WOMEN (AUTONOMOUS)
317.	A. Kavya sri	MIC college of Technology
318.	HUANG LIJUAN	Management and Science
319.	BHASKAR VULASALA	Sadhana College of Education Proddatur

320.	Ritesh	Dr.M.K.C.L.B. College of Pharmacy Upradaha, Prayagraj
321.	Adarsh Kumar	Institute of Technology and Management
322.	NAGABATHULA KEERTHANA	BVC Institute of Technology and Sciences
323.	POLISETTI DEEPIKA	BVCITS
324.	Eva Magizha G	Auxilium College (Autonomous)
325.	Pithani kalyani	BVCITS
326.	Balam KarunBabu	BVCITS
327.	Karri santhosh Kumar	BVCITS
328.	Kahekasha Jumman Shaikh	Ballarpur Institute of Technology Ballarpur
329.	Dr. PVN RAJESWARI	PBRVITS
330.	BANDARU NAGA PALLA SATYANARAYANA	BVCITS
331.	Parvathavardhini A	Jeppiaar college of arts and science
332.	POTLA ASHA	BVCITS
333.	Prof. Vishal Sanjay Landage	Jaikranti College Katraj Pune
334.	CHIMMILI SAI SANTHOSH	BVCITS , AMALAPURAM
335.	Sandeep Badde	BVCITS
336.	SASTI VIGNESH G	Ai tools for PR Communication 1
337.	GEDDAM SHARON	BVCITS
338.	MUTYALA HARI SATYA LAKSHMI	Bvcits
339.	Su.Swathiga	Dr.NGP arts and science college
340.	Dr. S. Priya Srivastava	Nehru Arts And Science College
341.	ASHRAF JAHANGIR	NETAJI SUBHASH ENGINEERING COLLEGE
342.	Geddam Rakesh	Bvcits
343.	Gandasiri Anjali	DVR &Dr.Hs MIC COLLEGE OF TECHNOLOGY
344.	Yerramsetti Hema Satish Kumar	BVCITS
345.	LAVANYA R	DMI college of engineering ,Chennai

346.	Y.GIRIJA DEVI	Swami dayananda college of arts & science, Manjakkudi
347.	SMITA BHANDARI	Technocrats Institute of Technology & Science Bhopal
348.	Kavuri. Sree devi neeraja	Bvcits
349.	Sumon Bhattacharyya	Wisdom Educational Centre
350.	J. BHARATHI	PG and Research Department of English, Mannar Thirumalai Naicker College, Madurai - 625020.
351.	A SURESH KUMAR	Rathinam Technical Campus
352.	Dr. Tejas B. Modi	Kalol Institute of Management (MCA)
353.	Anupoju RamaSubramanyam	Management
354.	Palati Naga Venkata Lakshmi Durga	BVCITS
355.	L. A. Mohamed Ali Jinnah	Jamal Mohamed College
356.	V.Durga Bhavani	BVCITS
357.	Mr. R. Ramanan	KG College of Arts and Science
358.	MEKWAGO Miradouce	University of Yaoundé I
359.	Vineetha V Nair	Swami Dayananda College of Arts and Science Manjakkudi
360.	MADDULA LEELA NAGA VENKATA LAHARI PARVATHI	Bvcits
361.	GEETHALAKSHMI M	Sathyabama Institute of science and technology
362.	Geddam Rakesh	Bvcits
363.	POONAM PANDITA	CENTRAL UNIVERSITY OF JAMMU
364.	Navneet Maurya	Banda University of Agriculture and Technology
365.	Bonthu Roopa Devi	Bvcits
366.	Kedarsetti jahnavi mani sunandini	Bvcits
367.	REKAPALLI SAIESWARA NAGA VAMSHHI	Super
368.	ANKUR SHARMA	Institute of Technology and Science Mohan Nagar Ghaziabad

369.	V Durga bhavani	BVCITS
370.	NALLA TARUN RAJ	BVCITS
371.	Narayan Singh Solanki	Madhav University
372.	Gokul balaji S	Arulmigu arthanareeswarar arts and science college
373.	Rajeev Gupta	Shambhunath Institute of Pharmacy Jhalwa Prayagraj
374.	DONIPATI SWATHI	BVCITS
375.	Dr. Rakesh Deb Roy	Holy Cross College, Agartala
376.	Shraddha Bhausaheb Navle	Sandip foundation
377.	S. Babeetha	SRM INSTITUTE OF SCIENCE AND TECHNOLOGY
378.	Mr. A. SURESH KUMAR, Rathinam Technical Campus, Coimbatore	Rathinam Technical Campus, Coimbatore
379.	Chebolu Manasa	Ramaiah University of applied sciences
380.	Mrs. J. Wahetha banu	Texcity arts and science college
381.	Ashwini hemant patil	Godavari institute of management and research college jalgaon
382.	K. Akshaya	Dr.N.G.P. Arts and Science college
383.	PAVITHRA. N	Dr.Ramu
384.	RAMANATHI BINDU MADHAVI	BVCITS
385.	N.Kavitha	Mass College of Arts & Science
386.	Dr.P.SELVAMANI	Thiagarajar College Madurai
387.	Mounika Tulasi Peddireddy	BVCITS
388.	SHIVALI VERMA	CENTRAL UNIVERSITY OF JAMMU
389.	Abhay Upadhyay	Dr. M K C L BIND COLLEGE OF PHARMACY
390.	Kailash Kumar Pareek	Parul Institute of Engineering & Technology, PARUL UNIVERSITY
391.	Akshatha Eva Sampson	Srinivas University
392.	A.Kavya sri	MIC college of Technology

393.	S AISWARYA	Sri Krishna Arts and Science College, Coimbatore
394.	Balaji vantipalli	Tcs
395.	Dr.Ramya K Prasad	Amrita Vishwa Vidyapeetham Mysuru Campus
396.	MS. RUKMINI V KASARAPU	Anil Neerukonda Institute of Technology and Sciences
397.	Sachin Kumar, Research Scholar, CU Jammu	CENTRAL UNIVERSITY OF JAMMU
398.	Arya Tanaji khaware	Bhalchandra college of pharmacy
399.	S. Reshmi	Dr. Ngp arts and science college
400.	A. Kalamani, Asst. Professor, computer science, RVS college of Arts and Science	RVS college of Arts and Science
401.	Dr.G.Lavanya	Saveetha Engineering college
402.	Magesh	Jeppiaar college
403.	Muskan	Ssd girls college
404.	Sandeep Mehta	PARUL UNIVERSITY
405.	ANUSHA SELES S	DMI COLLEGE OF ENGINEERING
406.	ALAJANGI SHALINI	Marri Laxman Reddy Institute of Technology and Management
407.	Santhosh R	Dr Ngp arts and science college
408.	Sandeep Badde	BVCITS
409.	Akshada bharat patil	college of pharmacy ,paniv
410.	K.SHARNITHA	Dr.N.G.P.Arts and Science college
411.	Mukesh Asati	TECHNOCRATS INSTITUTE OF TECHNOLOGY AND SCIENCE
412.	BANDARU SRI SAI SURYA	BVCITS
413.	Dr. Jaiprakash Narain Dwivedi	PARUL UNIVERSITY
414.	Madhavi Suraj Bhosale	Sinhgad College of Engineering Pune
415.	Dr Sulbha Gath	Dattajirao Kadam Arts Science and Commerce College
416.	Lavanya.V	DMI College of Engineering

417.	Poonam Pandita, Research Scholar, CU Jammu	CENTRAL UNIVERSITY OF JAMMU
418.	NAGALAKSHMI.S	Annamalai University
419.	Dr. Sathish K. Itagi	GFGC, Doddaballapur (Bangalore North University)
420.	Pedapudi srikanth	BVCITS Bhatlapalem
421.	Miran kundekar pawar	pharmacy
422.	BANDARU SRI SAI SURYA	BVCITS
423.	A. Sobiya	Dr. N.G.P. Arts and Science college
424.	DEVESH MISHRA	Dr MKCLBCP
425.	Dr. S Sriranjani Mokshagundam	BGS B-School, Bangalore
426.	Anish.A	N
427.	Dr. P. J. Queency Asha Dhas	Chevalier T. Thomas Elizabeth College for Women
428.	Battula Nagaraju	RISE Krishna Sai Prakasam group of institutions Autonomous Ongole andhrapradesh
429.	Tapasya Patel	Carrer College of Nursing Paramedical Institute Locknow
430.	QUEENCY MAHESHBHAI MACWAN	DEPARTMENT OF EDUCATION, VALLABH VIDHYANAGAR, SPU.
431.	P.LOKESHKIRAN	Rathinam Technical Campus
432.	Rahul Rawat	Dewan V.S. Institute of management
433.	Katta Bala Chandra vinay	BVCITS
434.	S.RAJATHI	Rathinam Technical Campus
435.	CHIMMILI SAI SANTHOSH	BVCITS
436.	Sachin Katiyar	VSSD PG College Kanpur
437.	Dr. MAMATHA K S	SJC INSTITUTE OF TECHNOLOGY, Chickballapur
438.	Nazia Tabassum	Vidyavardhaka Polytechnic
439.	Balla nagadurga	Bvcits
440.	Sandeep v	Ngp college of arts and science
441.	SHAKIRA BANU	BVCITS

442.	SIVA RAMA PRASAD KOLLU	Marri Laxman Reddy Institute of Technology and Management
443.	G.MUBEENA	Texcity arts and science College
444.	Dr. G PSVSD Nagendrarao	BVC INSTITUTE OF TECHNOLOGY AND SCIENCE, AMALAPURAM
445.	Dr Sasikala M	Saveetha Engineering College
446.	Abhishek J Bowaj	Vidyavardhaka Polytechnic
447.	Ch v v Narasimha Raju	Marri laxman reddy institute of technology and management
448.	S.Uma Maheshwari	Dr NGP arts and science college
449.	Dr. N. BALACHANDRAN	VCET
450.	Sandeep Badde	BVCITS
451.	Anita pandey	SRKCESM Satna
452.	Sharmetha S	Dr Ngp Arts and science college
453.	M R RAMESH	Indira Gandhi Centre for Atomic Research, Kalpakkam
454.	SANJAY GOTHWAL	SGSITS INDORE
455.	Dharnesh ms	Dr ngp arts and science college
456.	CHITRADEEP SEN	Girijananda Chowdhury Institute Of Pharmaceutical Science
457.	G L PREETHI	Aurora Higher Education and Research Institute
458.	JESSICA LYNGDOH	RiBhoi College
459.	A.Keerthik	Dr.M.G.R Fisheries College and Research Institute
460.	Dr.Amol B. Kasture	SOE-ADYPU
461.	Mr.N.LENIN RAKESH	BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH Chennai
462.	Dr.Achanta Satyanarayana	Bonam Venkata Chalamayya Institute of Technology and Science
463.	SALADI HIMA NANDINI	BVCITS
464.	Suresh krishna A B	Dr. N G P arts and science college

465.	Dr.Valarmathi S	VELS INSTITUTE OF SCIENCE TECHNOLOGY AND ADVANCED STUDIES
466.	Rakshith A S	Vidyavardhaka polytechnic
467.	Dr.S.R.Rajkumar	St.Joseph's College Pilathara kannur University kerala
468.	SURUTHY. M	Ai Tool for effective PR
469.	G L PREETHI	Aurora Higher Education and Research Institute
470.	Sangeeta Sharma	M A Educational Institute
471.	Geddam Rakesh	BVCITS
472.	Dr MADHU KAMRA	Durga Mahavidhyalaya
473.	Suman Palaram	Kakatiya University
474.	Sandeep Badde	BVCITS
475.	Er Satyendra Prasad Rajgond	GONDWANA INTERNATIONAL TECHNOLOGY & RESEARCH CENTRE (GITARC) BHATPAR RANI [INDIA]
476.	JYOTI TYAGI	Central University Of Haryana
477.	MOUNISA V	KONGU ENGINEERING COLLEGE
478.	Guttala Haritha	Bonam venkata chalamayya institute of technology and science
479.	Mrs Arti Tiwari	Maharana Pratap College of Professional Studies
480.	A Cordelia Sumathy	St Mother Theresa Engineering College
481.	Jenifer V	Kg college of arts and science
482.	ABHIJIT GHOSH	Techno India University
483.	Jaspreet kaur	Sewa Devi S.D College of Education Tarn Taran
484.	B.padmadri	Bonam venkata chalamayya institute of technology and science
485.	Akash Nanda Gopal Kondaveeti	Sathyabhama
486.	Arpan Kumar De	Meghnad Saha Institute of Technology
487.	N Rajkamal	PSG college of Arts and Science

488.	Dr S Prema	Arulmigu Arthanareeswarar Arts and Science College
489.	BHAMIDI V S UMA GANESH	Dr.KVRD and SGJVS DEGREE COLLEGE
490.	Nagadevara Veera subrahmanyam	..
491.	Deepak kumar v	Sns institutions
492.	V.Jasnine sowmya	KI University
493.	Dr. F. Merlin Kokila	Holy Cross College (Autonomous) Tiruchirappalli
494.	Prof.Tejashree Patil	KLE Society's College of BCA Khanapur
495.	Pamarthi Krishnachaitanya	Bvcits- amalapuram
496.	Abhishek J Bowaj	Vidyavardhaka Polytechnic
497.	Nrs Naziya Khanum	Karnataka State Akkamahadevi Women's University
498.	Dr.S.Usharani	Trinity College for Women, Namakkal
499.	Dr R Ramyadevi, SRM INSTITUTE OF SCIENCE AND TECHNOLOGY, Ramapuram	SRM INSTITUTE OF SCIENCE AND TECHNOLOGY
500.	Dhanya.V	Dr. NGP
501.	Dr.D.SHANMUGAVADIVEL	Dr.N.G.P. Arts and Science College
502.	J MADHURI	PBR vits
503.	Rishika Ponna	CBIT
504.	Dr.Mukesh Kumar Gandhi	Council for the Indian School Certificate Examinations, New Delhi
505.	DR.DIGANTA HALOI	BARAMA COLLEGE.
506.	B.Sai Manogna	Marri Laxman Reddy institute of technology and management
507.	Dr. R Ramyadevi SRMIST Ramapuram	SRMIST
508.	BADDE SANDEEP	BVCITS
509.	Y V V SATYANARAYANA	B V C Institute of Technology and Science
510.	SURYA P	RISE KRISHNA SAI PRAKASAM GROUP OF INSTITUTIONS

511.	SREEJA	Sathyabama University
512.	Asst. Prof. M. Gokilavani	NIET
513.	Sanjay Kumar Sah	University of Mysore
514.	Dr.A.R.JASMINE BEGUM	cauvery college for women
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516.	Mr.SYAM BABU DARSI	RISE Krishna Sai Prakasam Group of Institutions
517.	Mothees	Yadava college, Madurai
518.	M.MUTHULAKSHMI	Mannar Thirumalai Naicker College Madurai
519.	Geeta saini	Guru Kashi University
520.	Dr K Vijayakumari	Trinity College for women Namakkal
521.	Dr. Anupam verma	Government P.G. College Musafirkhana Amethi
522.	Dr. Tapas Kumar Maiti	College of Engineering & Management, Kolaghat
523.	GEETHALAKSHMI M	Sathyabama Institute of science and technology
524.	Dr Prabhavati Arvind Kejriwal	D.K.A.S.C.College, Ichalkaranji
525.	Samruddhi Sunil pawar	Sarhad College
526.	Marati Abhinaya sree	B pharamacy
527.	Y.umanjali	B.pharmacy
528.	Motupalli Sri Siva Surya Krishna	BVCITS
529.	DARASHAN KUMAR S	Dr.N.G.P.ARTS AND SCIENCE COLLEGE
530.	Dr. Pallavi Chetan Patil	Sarhad College of Arts Commerce and Science
531.	ESTHER BEULA B	CSI COLLEGE OF ENGINEERING
532.	SAFIULLA	Bishop heber college,Trichy
533.	Dr. Swapna Vikram Thorgule	Sarhad college of Arts Commerce and Science katraj Pune 46
534.	Dr Babitha Thimmaiah N	Visvesvaraya Technological university

535.	Anamika Singh	Mahatma Gandhi Chitrakoot Gramoday Vishwavidyalaya Chitrakoot Satna MP
536.	Chigilipalli Raju	Dr. B. R. Ambedkar university, srikakulam
537.	Borsu.Harishitha	Bvcits
538.	Dr. Kavita Saxena	IMS ENGINEERING COLLEGE
539.	Dr.C.Vindya Vasini	Santhiram Engineering college Nandyal
540.	Dr.Ramya K.Prasad of Amrita Vishwa Vidyapeetham Mysuru Campus	Amrita Vishwa Vidyapeetham Mysuru Campus
541.	Ruchi dubey	IMS UC campus
542.	Nidhi Satle	Devi Ahilya Vishwavidyalaya
543.	Dineshbala	DR . N.G. P Arts And science college
544.	Ms. S. KALAICHELVI	VIVEKANANDHA COLLEGE OF ARTS AND SCIENCE FOR WOMEN (AUTONOMOUS)
545.	Mrs.V.Manjuladevi	Shri Nehru Maha Vidyalaya College of Arts and Science
546.	Dr. P Shaikshavali	Ashoka womens Engineering college Kurnool
547.	Mohan Prasath M	M Kumarasamy college of engineering
548.	Shivi yadav	Dewan institute of management
549.	Dr Prabhavati Arvind Patil	D.K.A.S.C.College, Ichalkaranji
550.	Chandani Yadav	G Krish Bhakti TV
551.	DEBAPRIYA DUTTA	University of Calcutta
552.	Mrs.V.Manjuladevi	Shri Nehru Maha Vidyalaya College of Arts and Science
553.	J.VIGASHINI	Dr.NGP arts and science college
554.	DEVESH MISHRA	DR MKCLBCP
555.	Geetha R	Acharya Institute of Graduate Studies
556.	Harini S	Vels Institute of Science, Technology & Advanced Studies (VISTAS)
557.	Sandeep v	Dr.n.g.p art and science

558.	Rasika Manoj Rewatkar	Kavikulguru Institute of Technology and Science ramtek
559.	Dr-Surina Sharma	Divya shiksha gurukul college of Education Punjab
560.	Shankar V	TCS
561.	Dr.K.Bhuvaneswari	IFET College of Engineering
562.	Swathi Voddi	KLUNIVERSITY
563.	Sudhapriya. J	HINDUSTHAN COLLEGE OF ARTS AND SCIENCE
564.	Antony Azees Pradeep. J	National Virtual Seminar on Innovation in Ai Tools for Effective PR Communication
565.	Mr- Om Parkash Sharma	S. M. S karamjot Model Sr. Sec. School
566.	Dr.B. REBECCA	Marri Laxman Reddy Institute of Technology and Management
567.	Anuja Dinesh Tawlare	Sinhgad College of Engineering
568.	Chris kalvin.J	Dr ngp
569.	Mrs.S.Jayabharathi	Vellalar College for women
570.	DR. RABIN SARMA	GYANPETH DEGREE COLLEGE, NIKASHI, BAKSA, ASSAM
571.	P.DEVENDAR	MALLA Reddy engineering College for women
572.	Sharanyashri K	DR.N.G.P.Arts and Science College
573.	MS Rithika	Dr.N.G.P Arts and science college
574.	K. Satya Durga Mahesh	BVC INSTITUTE OF TECHNOLOGY & SCIENCE
575.	Narasimha Rao Pasupuleti	DVR & Dr HS Mic College of Technology
576.	Dr. Kalpana Soni	Govt. Raj Rishi PG college, Alwar
577.	Dr. R. D. Gomathi	Kongu engineering college
578.	Dr. S. BASKER	Government Arts College (Autonomous), Salem-7
579.	Arigela venkata vinay	Bvcits
580.	Eswara moorthy N	Kovai Kalaimagal College of Arts and Science
581.	Irfanul Islam	Nonoi College

582.	PATIL KIRIT BHARATKUMAR	Indian Institute Of Teacher Education
583.	Mrs. KASHINI NEERAJA	JNTUH
584.	Shilpa Shetty	St Aloysius University
585.	Dr.S.Nathiya	RVS College of Arts and Science Autonomous
586.	HEMA SRI RAMA DEVI YALLA	BVCITS
587.	Dr. G. Priyanka Jeeva Karunya	JNTUH University college of engineering Sultanpur
588.	R.VE. Sanjay	Dr. NGP arts and science college
589.	Mrs.S.Selvakumari	Kovai kalaimagal college of Arts and Science
590.	HARINI M	Ramco Institute of Technology
591.	Dr. Surya Prasada Rao Borra	PVP Siddhartha Institute of Technology
592.	Pranitha. P	Acharya Institute of grduate studies
593.	Dr. S. MANJULA	Mannar Thirumalai Naicker College, Madurai
594.	Mrs. G.ANITHA	Marri Laxman Reddy Institute of Technology and management
595.	Ms K JANCI JENITHA	PSGR KRISHNAMMAL COLLEGE FOR WOMEN
596.	GUNNA MANOJ	MLRITM
597.	Muthu prakash	Dr.n.g.p arts and science college
598.	Dr. A. Geetha Devi	PVP Siddhartha Institute of Technology
599.	Dr Wuppuluru Ramana Rao	ICFAI University Raipur
600.	Kavitha. J	AI
601.	SRIKANTH JANGI	Marri Laxman Reddy Institute of Technology and Management
602.	Dr. D. Bharathi	Annamacharya Institute of Technology and Science
603.	HARISCHANDRA PRASAD VISSAMSETTI	Parvathaneni Brahmayya Siddhartha College Of Arts & Science
604.	K. Gurusaran	Dr ngp arts and science college
605.	Madhavi Boini	Marri Laxman Reddy Institute of Technology and Management

606.	Kavitha. J	AI
607.	Ms.G.Sakila.,M.Sc.,M.Phil.,B.Ed.,	Arcot Sri Mahaalakshmi Women's College - Villapakkam
608.	P.SIVA PADMINI	Marri Laxman Reddy Institute of technology and management
609.	Prasanna Prakash Bhalerao	School of Engineering, Ajeenkya D Y Patil University Pune
610.	Dr. SaranyaBalan	Stella Maris College
611.	Dr. Purabi Talukdar	B.H.B. College, Sarupeta
612.	Swapnil belvanshi	Bu
613.	N.Nandhini	Kovai kalaimagal college of arts and science
614.	E. NALINI	PUPS, ANNANUR
615.	Meenalochini S P	Vel Tech Rangarajan Dr.Sagunthala R and D Institute of science and technology
616.	E. VEDA PRIYA	PUPS, AKKARAMBEDU COLONY, MINJUR BLOCK, TIRUVALLUR DISTRICT.
617.	Shaik Hamad Basha	BVCITS
618.	Tejaswini Bujare	CSIBER
619.	MELITA JASMINE D	CSI COLLEGE OF ENGINEERING KETTI
620.	S.Sri Sujai	Dr.NGP Arts and Science College
621.	J.Janani	Dr.N.G.P Arts and Science
622.	R. RANJITH	IFET COLLEGE OF ENGINEERING
623.	Dr.Puppala Krupa sagar	JNTUHUCES
624.	M. ROSARY KIRUBA ALEXY	St. Xavier's College of Education (Autonomous)
625.	G.Manikkaraj	RKM Vivekananda College
626.	Dr.T.S.Suganya	SRM IST
627.	Pardeep Singh	Guru Tegh Bahadur 4th Centenary Engineering College
628.	RITIKA.S	Dr .ngp arts and science college

629.	Mandela Renuka	BVC institute of technology and science
630.	Mr. Sateesha Neelakantarao Patil	SOE, ADYPU Lohegaon Pune.
631.	Mr.B.PRADHAP	IFETCE
632.	Adarsh Kumar	Institute of Technology and Management
633.	drarultkc@gmail.com	Rathinam Technical Campus
634.	Dr Elavarasan E	SJC Institute of Technology
635.	Sujitha R	KCET
636.	Boda Srujana	Ellenki College of Engineering and Technology
637.	ETHAKOTA JAYARAJU	Bvc institute of technology and science
638.	Babu Shajan Kevin	Manikam Ramaswami College of Arts & Science, MADURAI
639.	Dr.S.Shridevi	Vels Institute of Science Technology and Advanced Studies
640.	Dr. Vijaya Kittu Manda	PBMEIT
641.	B.JEYALAKSHMI	V.H.N.Senthikumara Nadar College(Autonomous),Virudhunagar.
642.	BONTHU HEMA PADMINI	BVCITS
643.	Dr. Anita G khandizod	Symbiosis Skills and professional University
644.	Puspita Priyambada Tripathy	Prananath College (Autonomous)
645.	Sanjeev.B	Dr. NGP .arts and science college
646.	Ms.T.SARANYA	Vels Institute of Science, Technology & Advanced Studies (VISTAS)
647.	X Jenifer	Vels Institute of Science Technology and Advanced Studies (VISTAS)
648.	Gopika. B	Rathinam technical campus
649.	Veeramsetti Brahmaji	BVCITS
650.	SARADA VISSAMSETTI	Sri Kota Raghavaiah Degree College
651.	DICKSON DAISON ALLI	LILONGWE UNIVERSITY OF AGRICULTURE AND NATURAL RESOURCES
652.	Sri Padmapriya R	Women's Christian college

653.	P JITENDER HARI	Jnafau Cfa
654.	Jacintha Jasmine	Women's Christian college
655.	Teena.C	Ai progaram
656.	KOTTAISAMY K	MANONMANIAM SUNDARANAR UNIVERSITY
657.	Swarna Lakshmi P	DMI college of engineering
658.	KALEESWARAN D	RATHINAM TECHNICAL CAMPUS
659.	Keerthana B	Kongu Arts and Science College
660.	Fathima beevi mona. B	St. John's college, palayamkottai
661.	HASVIKA M	Dr.NGP Arts and Science college
662.	Shailee Pandya	Sandip University
663.	Pravin kumar singh	Sathyabhama university
664.	Anancia Grace A	Savestha Engineering college
665.	Imreena Ali	BEST IU
666.	Dr Neelam Maurya	Government P.G College Musafirkhana, Amethi
667.	JYOTHI SRI PRIYA ADHIKARI	BVCITS
668.	K.M.Mahaswetha	Dr.NGP Arts and Science college
669.	Aiswarya.G	Mctm school
670.	SANDHYA S	M.CT.M chidambaram chettyar Sr.Sec.school
671.	MRS. R. GOWRI	VOORHEES COLLEGE, VELLORE.
672.	M GANGADHAR RAO	Lendi institute of engineering and technology
673.	NANDHINI B	IFET COLLEGE OF ENGINEERING
674.	Dr.S.SANGAMESHWARAN	Government Arts and Science College Thondamuthur Coimbatore
675.	Asha Lothe	Sandip University, Nashik
676.	Mr JOECECIL R	BHARATHIAR UNIVERSITY
677.	Dr.S.SHAMEEM	Cauvery College for Women (Autonomous) Trichirapplli
678.	Bhuvaneshwari N	Voorhees college vellore

679.	Dr Sharayu Sonawane	Sandip University, Nashik
680.	KARTHIK J	SNS COLLEGE OF TECHNOLOGY
681.	A. KALAIVANI	DKM COLLLEGE FOR WOMEN VELLORE
682.	Ruman Sheikh	Central India College of Pharmacy
683.	K.saiprasanna	B pharmacy
684.	Mr Akshay Gharat	Ajeenkya D Y Patil
685.	DR.HIMANSHU VERMA	GNIOT GROUP OF INSTITUTIONS
686.	RAMAMOHANA RAO GUDARU	DVR&Dr.HS MIC College of Technology
687.	THIRUMALA I SARAWAD	BLDEA'S Smt.Bangaramma Sajjan Arts, Commerce and Science College for Women, Vijayapura
688.	Navitha. K	Dr. NGP Arts and science college
689.	MOHAMED SAIBULLAH S	JAMAL MOHAMED COLLEGE
690.	Chaitanya Mali	Dy patil skurdi.
691.	Mayank Kumar	Amity University Rajasthan
692.	P.Ranjani Monisha	Voorhees college
693.	Balaji.K	Dr.NGP Arts and Science college
694.	DINEASH VC	National Virtual Seminar on Innovation in Ai Tools for Effective PR Communication
695.	Vandana Purushottam Chitodkar	Sandip Polytechnic
696.	J.K.Manigandan	Dr.N.G.P Arts and science college
697.	Tagender Singh	Modern College of professional Studies Mohan Nagar Ghaziabad
698.	Pankaj Lalwani	Maharana Pratap Group of Institutions
699.	ANJANA SINGH	INTEGRATED ACADEMY OF MANAGEMENT AND TECHNOLOGY GHAZIABAD
700.	Dr. Yogeesh N	Government First Grade College, Tumkur
701.	Vikas Rajput	Modern College of Professional Studies Mohan-Nagar Ghaziabad
702.	S. Ruqiya Firdous	DKM College for women Autonomous Vellore-01

703.	Anupoju RamaSubramanyam	Management
704.	Dr. Shveta Gupta	Chitkara University, Punjab
705.	Dr.Kirandeep Kaur	T.S.G.G.S.Khalsa College
706.	M.Ramesh Raja	Dr.N.G.P.Arts and Science college
707.	Dr. Shveta Gupta, Chitkara Business School, Chitkara University, Punjab	Chitkara University, Punjab
708.	M.Ramesh raja	Dr.N.G.P Arts and science college
709.	G.REVATHI	ST.JOHN'S COLLEGE, PALAYAMKOTTAI, AFFILIATED WITH MANONMANIAM SUNDARANAR UNIVERSITY
710.	M.Nithish	M.Nithish
711.	Anita Pandey	SRKCESM, Satna
712.	Anita Pandey	SRKCESM, Satna
713.	MUTHAMIL SELVAN S	Sathyabama Institute of Science and Technology, Chennai,
714.	Sneha Jayalakshmi J	Bharathiar University
715.	MARUTHAMUTHU M	MBA
716.	Kaleeshwari Selvaraj	Bharathiar University
717.	SAJJAN.S	Indian Institute of Information Technology
718.	Shivani Paramata	Bonam Venkata Chalamayya Institute of Technology and Science, Batlapalem
719.	KONDAPURAM VISHWA CHARAN REDDY	CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY
720.	Dr.G.Anitha Rathna	PSG College of Arts and Science
721.	Dr.M.Esther Krupa	PSG College of Arts & Science
722.	Dr G.Anitha Rathna	PSG College of Arts and Science
723.	Dr. Karthikeyan V P, Associate professor of commerce, RVS college of arts and science	RVS college of arts and science
724.	Archana. J	M. M. E. S women's arts and science college

725.	Divya Kumari	Magadh Mahila College Patna University
726.	ARAJIT SINGHA	SEACOM SKILLS UNIVERSITY
727.	HARA PRASAD SINGHA	SEACOM SKILLS UNIVERSITY
728.	Dr. Gayathri Raparthi	Chaitanya Bharati Institute of Technology
729.	Indhu R	Anna University
730.	Jyothsna Devi Kuchipudi	Jain Deemed to be University
731.	Kiran Prashant kundekar	Pharmacy
732.	A.T.Nirmala	M.CT.M Higher secondary school
733.	Jonathan Ezhil Bharathi S	Dr. N. G. P. ARTS AND SCIENCE COLLEGE
734.	SASMITA. R	Workshop
735.	DEVATHARSHINI. R	Workshop
736.	ABINISHASRI. B	Workshop
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738.	Dr KABIRDOSS DEVI	Vels Institute of Science, Technology and Advanced Studies(VISTAS)
739.	Mr. Amol Bajirao Kale	MIT ACSC COLLEGE
740.	Mrs.V.BHAVANI	Mannar Thirumalai Naicker College
741.	Dr. S. Vijayakumar	Mannar Thirumalai Naicker college
742.	Dr. Yogeesh N, Dept. Maths, GFGC Tumkur	Government First Grade College, Tumkur, Karnataka, India
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749.	Dr. Binoy Paul	Assam University, Silchar
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751.	K.vishnupriya	Mannar thirumalai naicker college

752.	A. Kavya sri	MIC college of Technology
753.	R.K.VIJAYALAKSHMI	Mannar Thirumalai Naicker college
754.	N HEMAVATHI	Mannar thirumalai college
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756.	P.Anitha	Madurai Kamaraj University
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759.	Maniesh D	SNSCT
760.	Mukesh balamurugan	IFET COLLEGE OF ENGINEERING
761.	SUPRADIP DAS DALAL	Suri Benimadhab Institution
762.	SAMIM A GHANCHI	Gokul global University
763.	Akriti Upadhyay	NIT Raipur
764.	K.S.Aaruthrasree	Dr.N.G.P.Arts and science college
765.	Joseph Joyson e	Dr. N. G. P. Arts and science college
766.	R.YUVASHREE	DR.NGP ARTS AND SCIENCE COLLEGE
767.	Sudhir.S	Dr NGP COLLEGE OF ARTS AND SCIENCE
768.	Dr. V. Arulmozhi	Rathinam Technical Campus
769.	Mr.Akrm Abdullah Alseed	University of Gharyan
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771.	Subramaniyam S	Builders Engineering College
772.	A. PREMALATHA	Rani Anna Government College for Women, Tirunelveli
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774.	S.SRIVIDYA	M.CT.M.CHIDABARAM CHETTYAR SCHOOL

775.	S.SRIVIDYA	M.CT.M CHIDAMBARAM CHETTYAR SCHOOL
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777.	ELECTO N SUMI	St. Joseph University
778.	Inito V Shohe	St Joseph University
779.	Victor chinir	St Joseph University
780.	Victor chinir	St Joseph University
781.	Noyon Sangma	University
782.	Pangernungsang Ozukum	St Joseph University
783.	SOMDEB ROY BARMAN	HOLY CROSS COLLEGE
784.	Sayanika Sengupta	Holy cross college Agartala
785.	S.Srividya	M.CT.M CHIDAMBARAM CHETTYAR SCHOOL
786.	MARY JENIFER A	Ifet college of engineering
787.	ANGELIN VICTORIA MARY A	Bharathidasan University
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790.	Niranjan.B	Dr GRD College of Science
791.	SURESH GORANTLA	DVR & Dr HS MIC COLLEGE OF TECHNOLOGY
792.	Vishnupriya N	Dr.GR DAMODARAN COLLEGE OF SCIENCE
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794.	B.Sai manogna	Marri Laxman Reddy institute of technology and management
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796.	A. Daisy Rani	Sarah Tucker College, Palayamkottai
797.	Mrs.S.Jayabharathi	K.S.Rangasamy College of Arts and Science Autonomous
798.	Valarmathi M	KSRCAS(A)
799.	D Bhavya Varma	MLRITM

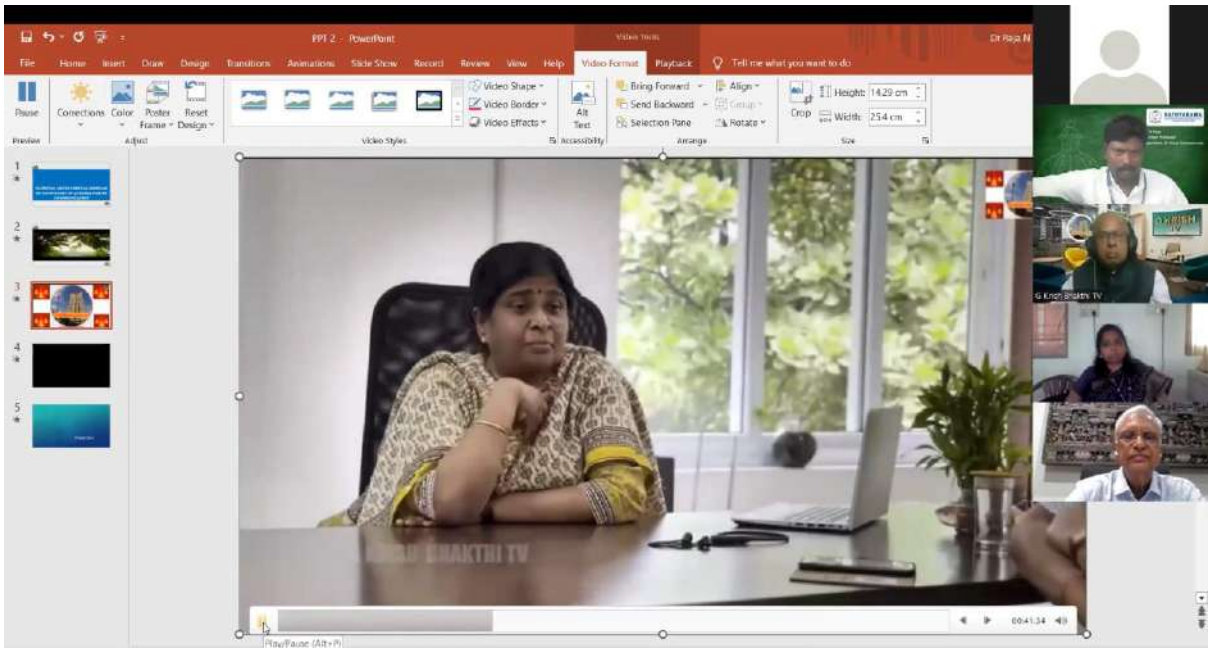
800.	Dinesh mech	St. Joseph University
801.	Neipe K Nuh	St Joseph University
802.	Dr Sulbha Gath	Dattajirao Kadam Arts Science and Commerce College
803.	Vinod KC	University of Technology,Jaipure
804.	Sujata Mohakud	KIIT University, Bhubaneswar
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807.	RITU RAJ KUMAR	Srm modinagar college of pharmacy
808.	MADHUSHREE MK	Acharya Institute Of Graduate studies
809.	Prof. Viral Mistry	Shayona International
810.	Dr. Prashant Sen	Eklavya University,Damoh,Madhya Pradesh
811.	Jyothsna Devi Kuchipudi	Jain Deemed to be University
812.	SIVAPRIYA. S	Dr.N.G.P.Arts and Science college
813.	Dr. Sulbha Gath	Dattajirao Kadam Arts Science and Commerce College

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Seminar: – Cinema Pattarai

Duration: One Days

Date: 26 July' 2023

Cinema Pattarai, a round table conference of directors organized by Movie Buff in association with Sathyabama Institute of Science and Technology, Department of Visual Communication, happened on 26 July' 2023. It was a marvelous interactive session with the Director of Good Night - Mr.Vinayak Chandrashekhar, Director of Dada - Mr. Ganesh K Babu, Director of Por Thozhil - Mr.Vignesh Raja and Director of Yaathisai - Mr. Dharani Rajendran. Students had a great time interacting with the directors and it helped everyone especially the students who are aspiring to become filmmakers. The students had an opportunity to clarify their doubts on the process of filmmaking, draft of the script, costumes selection process, production, equipment and how to narrate the story in a given time. This session has made students think beyond the story and understand the concept of adjusting and compromising their film, if needed, but without lacking the essence of the story.

EVENT POSTER:



PARTICIPANTS LIST

S. NO.	REG. NUMBER	STUDENT NAME
1	41270002	ALFRED GODWIN S J
2	41270003	ALWIN THISHOR P
3	41270004	AVVAI KRITHIKA HARINI V A
4	41270005	BALA BHARATHY M
5	41270006	BALAPRAGASH S
6	41270007	DEENADAYALAN V
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27	41270029	PRIYADHARSHINI L
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29	41270032	SARAN M
30	41270033	SHREE PAGAM PRIYAN S
31	41270034	SRIRAMAN K
32	41270035	SWATHI N
33	41270036	TEFFINA DANIEL
34	41270037	VAIRAVA SUNDAR R
35	41270039	VIGNESHWAR B
36	41270041	SARANRAJA D
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38	42270002	ACKLASH M
39	42270003	ADITHYA B
40	42270004	AJAY RAHUL S
41	42270005	AKASH KUMAR S
42	42270006	ANISH S S

43	42270007	ASHWIN M
44	42270008	BHAKYA LAKSHMI P
45	42270009	DHEERAJ S V
46	42270010	FRANCIS VERON R K
47	42270011	GAYATHRI M
48	42270012	HEMEENA R
49	42270013	JOEL GLADSON T
50	42270014	KRISHNA K
51	42270015	KRISHNAKUMAR K
52	42270016	LEKHA YUVANTI
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67	42270031	SATHISH KUMAR K
68	42270032	SEETHALAKSHMI D
69	42270033	SRIMATHI S
70	42270034	THIRUMALAI K
71	42270035	UDAY KIRAN E
72	42270036	VIGNESH K
73	42270037	VISHAKAN K K
74	42270038	VISHWA G
75	42270039	YASHWANTH RAJ S S
76	42580001	AADESH R
77	42580002	AASHINA JANVI M
78	42580003	ABDUL AZIZ S
79	42580004	ABISHEK S
80	42580005	ANTRO AKASH RAHUL RV
81	42580006	DEEPAK R
82	42580007	DEERAJ KUMAR R V
83	42580008	DHARUN KUMAR B
84	42580009	GODCHIKHA TNV
85	42580010	HARI PRABHU K
86	42580011	INFANTO CHRISHANTH M
87	42580012	JANARTHANAN A
88	42580013	KEERTHIVASAN S

89	42580014	LALITH KISHORE .K
90	42580015	NAGARAJ P
91	42580016	NITHIN KUMAR V
92	42580018	SAKTHIVEL R
93	42580019	SURYA V
94	42580020	VENUGOPAL B

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DEPARTMENT OF VISUAL COMMUNICATION
in association with
MOVIEBUFF

CINEMA PATTARAI

CERTIFICATE OF PARTICIPATION

This is to Certify that _____ has actively Contributed in 'Cinema Pattarai' held on 26th of July 2023 Organized by the Department of Visual Communication, Sathyabama Institute of Science and Technology, Chennai.

Dr. REKHA CHAKRAVARTHI
DEAN, S&H

Dr. N. NAZINI
HEAD OF THE DEPARTMENT

Industrial visit –Qube cinema

Visit to QUBE CINEMA at Chennai – Mastering Process our M.Sc Viscom students visited the Qube cinema and learned about mastering works after filmmaking. -industrial visit at Qube cinema

PARTICIPANTS LIST

S. NO.	STUDENT NAME	Department
1	Abdul Aziz S	Viscom
2	ANTRO AKASH RAHUL RV	Viscom
3	Deepak R	Viscom
4	Dharun kumar B	Viscom
5	Infanto Chrishanth M	Viscom
6	Janarthanan A	Viscom
7	Keerthivasan S	Viscom

Photo



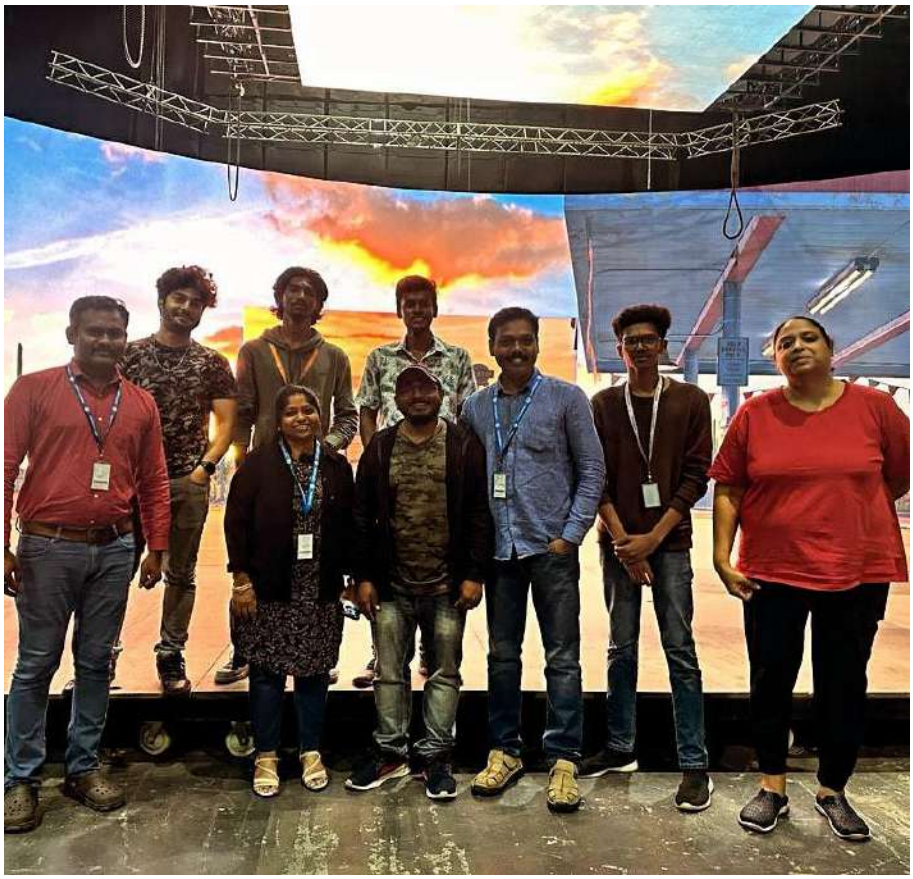
Industrial visit – Hyderabad's Annapurna Studios

On September 5th, 2023, faculty and students from our institution embarked on a transformative visit to Hyderabad's Annapurna Studios in collaboration with Qube Cinema, delving into the world of virtual production. At Qube Cinema, we witnessed cutting-edge technology shaping the future of filmmaking, while our experience at Annapurna Studios provided invaluable insights into the creative process behind virtual environments. Engaging with industry experts, we gained a deeper understanding of the innovative techniques driving visual storytelling. This excursion not only expanded our knowledge but also inspired us to embrace emerging technologies and push the boundaries of creativity in our academic pursuits. Additionally, we were fascinated to learn about their in-house Virtual Art Department (VAD), which specializes in designing assets tailored to filmmakers' specific needs. From optimizing pre-designed assets to customizing their look, the VAD ensures seamless integration into virtual productions. We were intrigued by the ability to blend cultural elements, such as giving Western-designed assets an Indian touch, showcasing the studio's commitment to creativity and versatility in virtual production.

PARTICIPANTS LIST

S. NO.	STUDENT NAME	Department
1	Aziz	Viscom
2	Deepak	Viscom
3	Manish	Viscom
4	Nithin	Viscom
5	Antro	Viscom
6	Janarthanan A	Viscom
7	Keerthivasan S	Viscom

Photo





Seminar: – 12th edition of the Chennai International Short Film Festival

Duration: One Days

Date: February 24th, 2024

The 12th edition of the Chennai International Short Film Festival on February 24th, 2024, marked an exciting collaboration with the Department of Visual Communication at Sathyabama Institute of Science and Technology. Our Viscom students proudly showcased their short films and took charge of managing the day's show session with the public audience. Adding prestige to the event, our Vice President, Ms. Maria Bernadette Tamilarasi, graced the occasion alongside renowned Director Ravi Kumar, celebrated for his work on the film "Ayaalan". The festival also featured an interactive session on visual storytelling led by Mr.R.Ravi Kumar and a captivating discussion with Actor V. Jayaprakash , fostering connections among college students. It was an exceptional celebration of our students' talent and creativity, reaffirming our commitment to excellence in the field of visual communication.

Poster



PARTICIPANTS LIST

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3	41270004	AVVAI KRITHIKA HARINI V A
4	41270005	BALA BHARATHY M
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79	42580004	ABISHEK S
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The "Tech-World" program will take participants on a tour through the fast changing technological landscape, exploring how innovations are affecting the globe. From the most recent advances in artificial intelligence and robotics to the advent of smart cities and the Internet of Things (IoT), this session will provide a complete overview of the cutting-edge technologies that are influencing our future. We'll look at the practical uses, problems, and ethical concerns that come with these breakthroughs. Whether you're a tech fanatic or a curious learner, "Tech-World" provides vital insights into the forces driving the digital revolution and their implications for our society.

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The "Tech-World" program will take participants on a tour through the fast changing technological landscape, exploring how innovations are affecting the globe. From the most recent advances in artificial intelligence and robotics to the advent of smart cities and the Internet of Things (IoT), this session will provide a complete overview of the cutting-edge technologies that are influencing our future. We'll look at the practical uses, problems, and ethical concerns that come with these breakthroughs. Whether you're a tech fanatic or a curious learner, "Tech-World" provides vital insights into the forces driving the digital revolution and their implications for our society.

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Join us for an enlightening session at Soka Ikeda College of Arts and Science for Women, where creativity and empowerment intersect. This fascinating event will look at creative approaches to arts and science, with the goal of inspiring and equipping women with the skills and information they need to succeed in these vibrant disciplines. Participants will learn practical techniques, cutting-edge research, and collaborative projects, creating a welcoming environment for growth and inquiry. Whether you're interested in creative expression or scientific investigation, this program will provide you with vital insights and hands-on experience to help you further your academic and career goals. Accept the opportunity to broaden your horizons and network with like-minded individuals.

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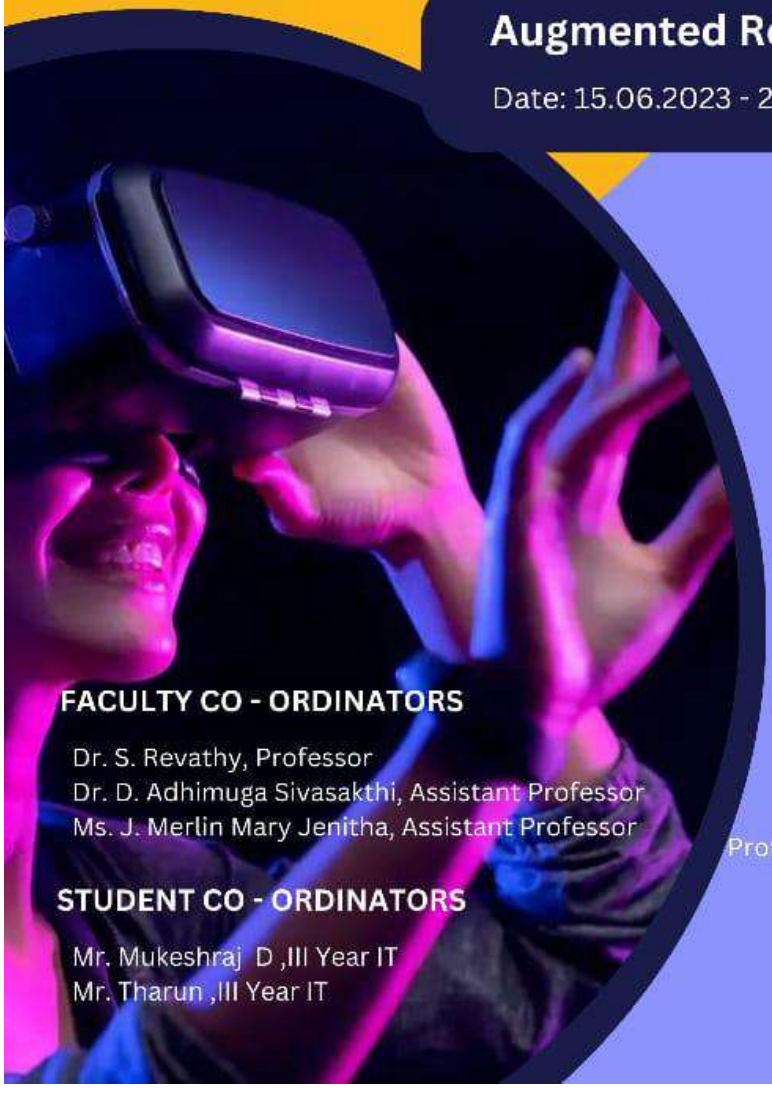
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Dr. R. Subhashini
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Ms. J. Merlin Mary Jenitha, Assistant Professor

STUDENT CO - ORDINATORS

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Mr. Tharun ,III Year IT

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Ms. Merlin Mary Jenitha, Assistant Professor

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S. Sairam - III year,IT

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9 AM TO 3.15 PM



FACULTY CO-ORDINATORS

Dr. S.Revathy, Professor
Dr. L. Mary Gladence, Professor
Dr. Adhimuga Sivasakthi, Assistant Professor

STUDENT CO-ORDINATORS

S. Dhananjeyan - III year,IT
R. Rethisha - III year,IT

CHIEF PATRONS

Dr.Mariazeena Johnson
Chancellor
Dr.Marie Johnson
President
Ms.Maria Catherine Jayapriya
Vice President

PATRON

Dr . T . Sasipraba
Vice Chancellor

CONVENORS

Dr . T . Sasikala
Professor & Dean, School of Computing

Dr . R . Subhashini
Prof & Head , Dept of IT

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Universiti Malaysia Pahang
Lebuhraya Tun Razak
26300 Kuantan
Pahang Darul Makmur
Tel: 09 - 549 2501
Faks: 09 - 549 2544

KEYNOTE SPEAKERS



Prof. Dr. R. Subhashini
Head, Department of Information Technology,
Sathyabama Institute of Science and Technology,
Chennai, India.
Topic: Role of Artificial Intelligence in Engineering Applications.



Prof. Dr. S. Revathy
Department of Information technology,
Sathyabama Institute of Science and Technology,
Chennai, India.
Topic: Application of Deep Learning in Cyber Security.



Prof. Dr. Hj. Muhammad Izzat Nor Ma'arof
Mechanical Engineering Department,
Faculty of Engineering and Quantity Surveying (FEQS), INTI International University, Malaysia.



CONTACT US

MAHSA University
Jalan SP2, Bandar Saujana Putra,
41620 Jenjarom, Selangor, Malaysia.

1-800-88-0300

CONTACT PERSON

Mr. Mohd Hafiz bin Abd Rahman
mohdhafiz.r@mahsa.edu.my

Scan QR code for registration and payment

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Faculty of Engineering, Built Environment and Information Technology
MAHSA University, Malaysia

COORGANIZER
Department of Information Technology, Chennai, India
Sathyabama Institute of Science and Technology



MAHSA international Conference on Industrial Revolution Information & Communication Technology [Mi-irict] 2023

Latest IT Insights towards industrial Revolution 4.0

Mi-IRICT

27th - 28th OCTOBER

Level 09, Emphaty Building,
MAHSA University, Bandar Saujana Putra Campus, Selangor, Malaysia.

OBJECTIVES

Mi-IRICT 2023 aims to bring together academicians, researchers and industrial professionals from all over the world to share their experiences in the field of Information Technology. It provides a platform for researchers, educators and students to present and discuss the most recent innovations, practical challenges and solutions adopted in their research.

SCOPE

The scope of the conference is to encourage the research and innovative ideas focuses on Latest IT Insights towards industrial Revolution 4.0 in the field of information & communication technology. The topics of interest for submission includes Internet of Things (IoT), Intelligence database, machine learning, robotics and industrial automation IR4.0, Recent trends in Networking.

PUBLICATION

All registered and presented papers will be published in the journal titled **MAHSA International Journal of Engineering and Technology (Mi-JET) (e-ISSN: 2811-3888)**

Selected Papers will be published in SCOPUS Indexed Journal with additional cost

IMPORTANT DATES

Abstract Submission Deadline

20th October 2023

Full Paper Submission

24th October 2023

Registration Deadline

20th October 2023

Conference Dates

27th -28th October 2023

PAPER TRACKS

- Artificial Intelligence in reliability
- Digital Transformation
- Internet of Things (IoT)
- Advanced Information System
- Multimedia Applications and Services
- Technology Management
- Information System in Education
- Machine Learning and Deep Learning Techniques
- Green Computing Technology
- Soft Computing
- Health and Medical Informatics
- Business Intelligence and Sustainability
- Data Science and Big Data Analytics
- Networking & Cyber Security
- Cloud Computing
- Recent Trends in Mobile Computing



COMMITTEES

CHIEF CONFERENCE CHAIR

- **Assoc. Prof. Ts. Dr. Iman Farshchi** *Dean, Faculty of Engineering, Built Environment & IT, MAHSA University*
- **Mdm. Siti Afifa binti Anuar** *Deputy Dean, Faculty of Engineering, Built Environment & IT, MAHSA University*
- **Prof. Dr. T. Sasikala** *Dean, School of Computing, Sathyabama Institute of Science and Technology, Chennai, India.*

CONFERENCE CHAIR

- **Prof. Dr. R. Subhashini,** *Head Department of Information Technology, Sathyabama Institute of Science and Technology, Chennai, India.*
- Mr. Mohd Hafiz bin Abd Rahman (Chairman)
- Mr. Muhammad 'Uzair bin Mohamed Zain (Co-Chairman)

PROGRAMME CHAIR

- **Prof. Dr.S.Revathy**, *Department of Information technology, Sathyabama Institute of Science and Technology, Chennai, India.*
- Assoc. Prof. Dr Abdul Rahim Sadiq Batcha
- Mdm. Wan Hasnah binti Ahmad
- Ms. Noraniza Binti Jaffar
- Ms. Nurulaini Binti Shariffudin

TECHNICAL WORKSHOP

- **Prof. Dr. S. Murugan** *Department of Computer Science and Engineering, Sathyabama Institute of Science and Technology, Chennai India.*
  Workshop Title: Data Visualization.
- **Assoc. Prof.Dr. R. Sethuraman** *Department of Computer Science and Engineering, Sathyabama Institute of Science and Technology, Chennai India.*
  Workshop Title: Design Thinking.



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POONAMALLEE, CHENNAI - 600 123.
Phone : 91-44-26490404, 26490505, 26490717
Email: info@panimalar.ac.in Website : www.panimalar.ac.in

Dr.P. CHINNADURAI, M.A., Ph.D., Secretary & Correspondent
C.VIJAYARAJESWARI, Director
Dr.C.SAKTHIKUMAR, M.E.,Ph.D., Director
Dr.K. MANI, M.E.,Ph.D., Principal

22.03.2024

CERTIFICATE

This is to certify that **Dr. C. Geetha, Assistant Professor, Department of IT, Sathyabama University, Chennai"** acted as Session Chair, in the *"7th International Conference on Intelligence Computing (ICONIC)"* on **22nd March, 2024.**

Best Wishes.

PRINCIPAL

PANIMALAR ENGINEERING COLLEGE
CHENNAI
600 123

WSZECHNICA POLSKA
AKADEMIA NAUK STOSOWANYCH W WARSZAWIE

LETTER OF ACCEPTANCE

ERASMUS PLUS PROGRAMME

Warsaw, 20 January 2023

To whom it may concern

I certify that Ms. SANDRA CHANDRAN PRATHAP SAHAJA, born on 29th May 2001 in Trivandrum, Kerala, India, holder of Passport No. W8503919, a student studying II Year-Masters in English Literature in the Department of English, Sathyabama Institute of Science and Technology, Chennai, Tamil Nadu, India, has been awarded a grant within the framework of Erasmus + Programme - Student Mobility for studies at the Institute of Philology and Pedagogy, Wszechnica Polska Academy of Applied Sciences in Warsaw, Poland from 27.02.2023 to 2.07.2023.

Upon her arrival at Wszechnica Polska Academy of Applied Sciences in Warsaw, the student will receive up to 820 Euro of travel support and she will be receiving 800 Euro of individual support per month.

The student will benefit from proper accommodation located at 6a Leśna Street, 05-806, Komorów during the period of mobility stated above.

Head of International Cooperation Office
Erasmus Coordinator
Katarzyna Ługowska
Ługowska
Ph.D.

WSZECHNICA POLSKA
Akademia Nauk Stosowanych w Warszawie
Pałac Kultury i Nauki
00-901 Warszawa, Pl. Defilad 1

Pałac Kultury i Nauki, VIII piętro, 00-901 Warszawa, Pl. Defilad 1
Sekretariat pok. 822, tel./faks 22 624 88 35, tel. 22 656 61 92
e-mail: wszechnica@wszechnicapolska.edu.pl www.wszechnicapolska.edu.pl



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COLLEGE LONDON

Westminster College London

This is to certify that

MADONNA SHEELA J

has achieved

150 Hour Certificate in Teaching English to Speakers of Other Languages (TESOL) accredited by

THE CPD GROUP | ACCREDITED: ACTIVITY 0150 Credit Hours #1007776

Award date: 24/07/2023

Certificate number: AD1601943

Reza Abedi

PRINCIPAL

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27 Old Gloucester, London, , WC1N 3AX
Email: info@westminstercollege.uk
www.westminstercollege.uk

WESTMINSTER COLLEGE LONDON

Name: Madonna Sheela J
Registration No: AD1601943

Transcript

Certificate in TESOL (150 hours)

No	Chapter	Points	Grade
1	Principles of Teaching English to Speakers of Other Languages	40	34
2	Understanding English Grammar	40	40
3	Teaching English Grammar	40	40
4	Teaching English Vocabulary	40	40
5	Teaching Reading and Listening	40	40
6	Teaching Speaking and Writing	40	38
7	Materials and Aids for Teaching English	40	40
8	Teaching Pronunciation of English	40	39
9	Lesson Planning for Teaching English	40	40
10	Teaching English to Young Learners	40	40
11	Using Resources Effectively When Teaching English to Speakers of Other Languages	40	39
12	Final Exam	60	55
13	Teaching Practice	500	480

Overall score: 965

Grade: A

Reza Abedi

Principal -WCL

Westminster WCL College London

Grading:

A: 950 – 1000

B: 850-949

C: 750-849

This transcript sets out the studies undertaken at the Westminster College London by the above-named and is printed in black ink and carries the college official stamp.

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Westminster College London
27 Old Gloucester St, London, United Kingdom
Telephone: +44 (0)2070702597
Email: info@westminstercollege.uk

Date: 24/07/2023

No: RB01688

To whom it may concern,

This is to certify that MADONNA SHELLA J has successfully completed 150 Hour TESOL course including Teaching English to Young Learners with WCL.

I was the trainer and it is my pleasure to provide him/her with a reference letter.

He/she was a very active learner and put a lot of effort into all his/her personal teaching practices. He/she did very well on both theory and practical sides of the course and received one of the highest marks. His/her professional attitude and attention to detail would make him/her an ideal employment candidate. Please do not hesitate to contact me should you have any query.

Warm regards,
R. Abedi

Principal - WCL

Westminster WCL College London

WESTMINSTER
COLLEGE LONDON

Westminster College London

This is to certify that

S. U. SORNA LAKSHMI

has achieved

150 Hour Certificate in Teaching English to Speakers of Other Languages (TESOL) accredited by

THE CPD GROUP | ACCREDITED: ACTIVITY 0150 Credit Hours #1007776

Award date: 17/07/2023

Certificate number: AD1601953

Reza Abedi

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Email: info@westminstercollege.uk
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WESTMINSTER COLLEGE LONDON

Name: S. U. SORNA LAKSHMI
Registration No: AD1601953

Transcript

Certificate in TESOL (150 hours)

No	Chapter	Points	Grade
1	Principles of Teaching English to Speakers of Other Languages	40	40
2	Understanding English Grammar	40	40
3	Teaching English Grammar	40	40
4	Teaching English Vocabulary	40	38
5	Teaching Reading and Listening	40	40
6	Teaching Speaking and Writing	40	40
7	Materials and Aids for Teaching English	40	37
8	Teaching Pronunciation of English	40	39
9	Lesson Planning for Teaching English	40	38
10	Teaching English to Young Learners	40	35
11	Using Resources Effectively When Teaching English to Speakers of Other Languages	40	40
12	Final Exam	60	55
13	Teaching Practice	500	480

Overall score: 962

Grade: A

Reza Abedi

Principal -WCL

Westminster WCL College London

Grading:

A: 950 – 1000

B: 850-949

C: 750-849

This transcript sets out the studies undertaken at the Westminster College London by the above-named and is printed in black ink and carries the college official stamp.

The certificate attached to this transcript can be verified online at www.westminstercollege.uk/verify

Westminster College London
27 Old Gloucester St, London, United Kingdom
Telephone: +44 (0)2070702597
Email: info@westminstercollege.uk

Date: 24/07/2023

No: RB01680

To whom it may concern,

This is to certify that S. U. SORNA LAKSHMI has successfully completed 150 Hour TESOL course including Teaching English to Young Learners with WCL.

I was the trainer and it is my pleasure to provide him/her with a reference letter.

He/she was a very active learner and put a lot of effort into all his/her personal teaching practices. He/she did very well on both theory and practical sides of the course and received one of the highest marks. His/her professional attitude and attention to detail would make him/her an ideal employment candidate. Please do not hesitate to contact me should you have any query.

Warm regards,
R. Abedi

Principal - WCL

Westminster WCL College London

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This is to certify that

STEFFE FAITH M J

has achieved

150 Hour Certificate in Teaching English to Speakers of Other Languages (TESOL) accredited by

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Award date: 17/07/2023

Certificate number: AD1601960

Reza Abedi

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WESTMINSTER COLLEGE LONDON

Name: STEFFE FAITH M J
Registration No: AD1601960

Transcript

Certificate in TESOL (150 hours)

No	Chapter	Points	Grade
1	Principles of Teaching English to Speakers of Other Languages	40	40
2	Understanding English Grammar	40	40
3	Teaching English Grammar	40	40
4	Teaching English Vocabulary	40	40
5	Teaching Reading and Listening	40	37
6	Teaching Speaking and Writing	40	40
7	Materials and Aids for Teaching English	40	36
8	Teaching Pronunciation of English	40	38
9	Lesson Planning for Teaching English	40	40
10	Teaching English to Young Learners	40	36
11	Using Resources Effectively When Teaching English to Speakers of Other Languages	40	40
12	Final Exam	60	58
13	Teaching Practice	500	479

Overall score: 964

Grade: A

Reza Abedi

Principal -WCL

Westminster WCL College London

Grading:

A: 950 – 1000

B: 850-949

C: 750-849

This transcript sets out the studies undertaken at the Westminster College London by the above-named and is printed in black ink and carries the college official stamp.

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Westminster College London
27 Old Gloucester St, London, United Kingdom
Telephone: +44 (0)2070702597
Email: info@westminstercollege.uk

Date: 24/07/2023

No: RB01687

To whom it may concern,

This is to certify that STEFFE FAITH M J has successfully completed 150 Hour TESOL course including Teaching English to Young Learners with WCL.

I was the trainer and it is my pleasure to provide him/her with a reference letter.

He/she was a very active learner and put a lot of effort into all his/her personal teaching practices. He/she did very well on both theory and practical sides of the course and received one of the highest marks. His/her professional attitude and attention to detail would make him/her an ideal employment candidate. Please do not hesitate to contact me should you have any query.

Warm regards,
R. Abedi

Principal - WCL

Westminster WCL College London

WESTMINSTER
COLLEGE LONDON

Westminster College London

This is to certify that

POOJA D

has achieved

150 Hour Certificate in Teaching English to Speakers of Other Languages (TESOL) accredited by

THE CPD GROUP

ACCREDITED: ACTIVITY
0150 Credit Hours
#1007776

Award date: 17/07/2023

Certificate number: AD1601958

Reza Abedi

PRINCIPAL

Verify authenticity at

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WESTMINSTER WCL COLLEGE LONDON

27 Old Gloucester, London, , WC1N 3AX
Email: info@westminstercollege.uk
www.westminstercollege.uk

WESTMINSTER COLLEGE LONDON

Name: POOJA D
Registration No: AD1601958

Transcript

Certificate in TESOL (150 hours)

No	Chapter	Points	Grade
1	Principles of Teaching English to Speakers of Other Languages	40	40
2	Understanding English Grammar	40	40
3	Teaching English Grammar	40	40
4	Teaching English Vocabulary	40	39
5	Teaching Reading and Listening	40	37
6	Teaching Speaking and Writing	40	40
7	Materials and Aids for Teaching English	40	40
8	Teaching Pronunciation of English	40	38
9	Lesson Planning for Teaching English	40	40
10	Teaching English to Young Learners	40	38
11	Using Resources Effectively When Teaching English to Speakers of Other Languages	40	38
12	Final Exam	60	57
13	Teaching Practice	500	467

Overall score: 954

Grade: A

Reza Abedi

Principal -WCL

Westminster WCL College London

Grading:

A: 950 – 1000

B: 850-949

C: 750-849

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The certificate attached to this transcript can be verified online at www.westminstercollege.uk/verify

Westminster College London
27 Old Gloucester St, London, United Kingdom
Telephone: +44 (0)2070702597
Email: info@westminstercollege.uk

Date: 24/07/2023

No: RB01685

To whom it may concern,

This is to certify that POOJA D has successfully completed 150 Hour TESOL course including Teaching English to Young Learners with WCL.

I was the trainer and it is my pleasure to provide him/her with a reference letter.

He/she was a very active learner and put a lot of effort into all his/her personal teaching practices. He/she did very well on both theory and practical sides of the course and received one of the highest marks. His/her professional attitude and attention to detail would make him/her an ideal employment candidate. Please do not hesitate to contact me should you have any query.

Warm regards,
R. Abedi

Principal - WCL

Westminster WCL College London

WESTMINSTER
COLLEGE LONDON

Westminster College London

This is to certify that

SOWNDHARYA D

has achieved

150 Hour Certificate in Teaching English to Speakers of Other Languages (TESOL) accredited by

THE CPD GROUP

ACCREDITED: ACTIVITY
0150 Credit Hours
#1007776

Award date: 17/07/2023

Certificate number: AD1601954

Reza Abedi

PRINCIPAL

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WESTMINSTER WCL COLLEGE LONDON

27 Old Gloucester, London, , WC1N 3AX
Email: info@westminstercollege.uk
www.westminstercollege.uk

WESTMINSTER COLLEGE LONDON

Name: SSOWNDHARYA D
Registration No: AD1601954

Transcript

Certificate in TESOL (150 hours)

No	Chapter	Points	Grade
1	Principles of Teaching English to Speakers of Other Languages	40	40
2	Understanding English Grammar	40	40
3	Teaching English Grammar	40	40
4	Teaching English Vocabulary	40	39
5	Teaching Reading and Listening	40	40
6	Teaching Speaking and Writing	40	40
7	Materials and Aids for Teaching English	40	37
8	Teaching Pronunciation of English	40	40
9	Lesson Planning for Teaching English	40	38
10	Teaching English to Young Learners	40	35
11	Using Resources Effectively When Teaching English to Speakers of Other Languages	40	40
12	Final Exam	60	55
13	Teaching Practice	500	475

Overall score: 959

Grade: A

Reza Abedi

Principal -WCL

Westminster WCL College London

Grading:

A: 950 – 1000

B: 850-949

C: 750-849

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The certificate attached to this transcript can be verified online at www.westminstercollege.uk/verify

Westminster College London
27 Old Gloucester St, London, United Kingdom
Telephone: +44 (0)2070702597
Email: info@westminstercollege.uk

Date: 24/07/2023

No: RB01681

To whom it may concern,

This is to certify that SOWNDHARYA D has successfully completed 150 Hour TESOL course including Teaching English to Young Learners with WCL.

I was the trainer and it is my pleasure to provide him/her with a reference letter.

He/she was a very active learner and put a lot of effort into all his/her personal teaching practices. He/she did very well on both theory and practical sides of the course and received one of the highest marks. His/her professional attitude and attention to detail would make him/her an ideal employment candidate. Please do not hesitate to contact me should you have any query.

Warm regards,
R. Abedi

Principal - WCL

Westminster WCL College London

TITLE: CAREER DEVELOPMENT.

DATE OF THE EVENT: 21ST FEBRUARY 2024.

TIME: 10:00 AM -12:30 PM.

VENUE: LIBRARY AUDITORIUM, SATHYABAMA INSTITUTE OF SCIENCE TECHNOLOGY.

CHIEF GUESTS: Dr. Janani Dakshina Moorthy [CEO of GeneAura Ltd) and Mrs.Preetha Manikandan [CEO of ISHTA Panchagavyam]











The Community for United Biological Science (CUBS) organized a successful career outreach program at the Sathyabama Institute of Science and Technology's Library Auditorium. The event from 10:00 AM to 12:30 PM, catered to second-year students from Biotechnology, Microbiology, and Biochemistry programs.

Neha and Thasleema skillfully guided the audience through the program as emcees. Esteemed faculty members, including Dr. L. Inbathamizh (Head, Department of Clinical Nutrition and Dietetics), Dr. Jayashree (Assistant Professor, Department of

Biotechnology), and Dr. Shakib (Assistant Professor, Department of Biotechnology), graced the event with their presence.

Following the Tamil Thai Vazlthu (Tamil national anthem), Dr. Janani Dakshina Moorthy and Mrs. Preetha Manikandan, the esteemed guest speakers, were felicitated with shawls and saplings. Dr. Moorthy, founder of GeneAura Pvt Ltd., shared valuable insights into her entrepreneurial journey and career prospects in biotechnology.

Following this, Mrs. Manikandan, entrepreneur behind ISHTA-Panchagavya, enlightened the audience on the essence of entrepreneurship within the biotechnology sector.

The interactive session concluded with a positive response from the attendees, who expressed their appreciation for the knowledge gained. The signature CUBS "Pledge Wall" allowed participants to share their feedback, solidifying the program's success and motivating CUBS members to continue organizing such informative events.

Demonstrating their organizational skills and commitment, junior CUBS members, guided by the Core Council, meticulously planned and executed the escort of the chief guest to their transportation at the event's end.

The Career Outreach Program, a collaborative effort by the CUBS community, provided an enriching experience for budding biotechnology enthusiasts. The program fostered learning, inspiration, and valuable networking opportunities.

TITLE: CAREER DEVELOPMENT.

DATE OF THE EVENT: 21ST FEBRUARY 2024.

TIME: 10:00 AM -12:30 PM.

VENUE: LIBRARY AUDITORIUM, SATHYABAMA INSTITUTE OF SCIENCE TECHNOLOGY.

CHIEF GUESTS: Dr. Janani Dakshina Moorthy [CEO of GeneAura Ltd) and Mrs.Preetha Manikandan [CEO of ISHTA Panchagavyam]











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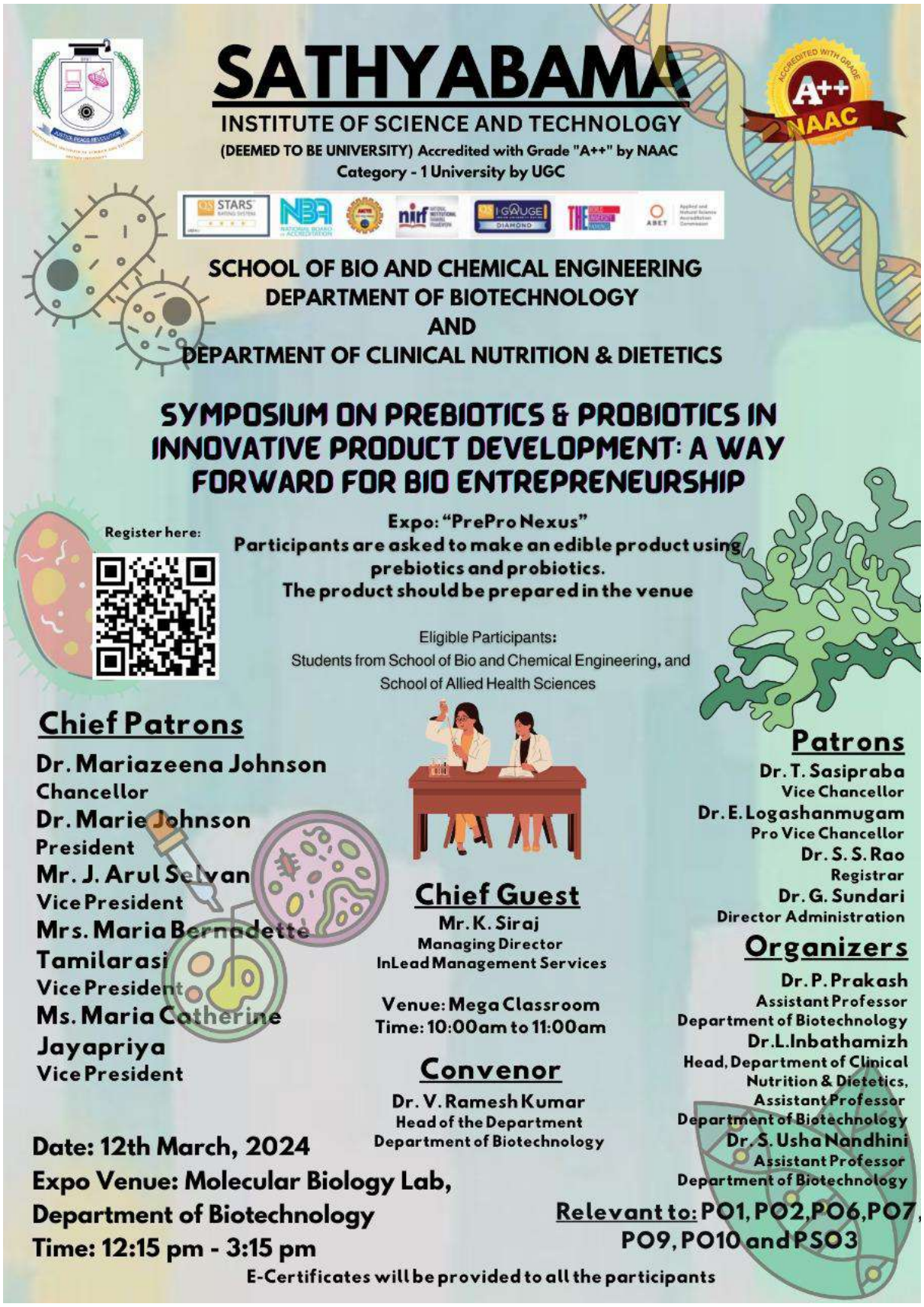
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The Career Outreach Program, a collaborative effort by the CUBS community, provided an enriching experience for budding biotechnology enthusiasts. The program fostered learning, inspiration, and valuable networking opportunities.

SYMPOSIUM ON PREBIOTICS & PROBIOTICS IN INNOVATIVE PRODUCT DEVELOPMENT: A WAY FORWARD FOR BIO ENTREPRENEURSHIP



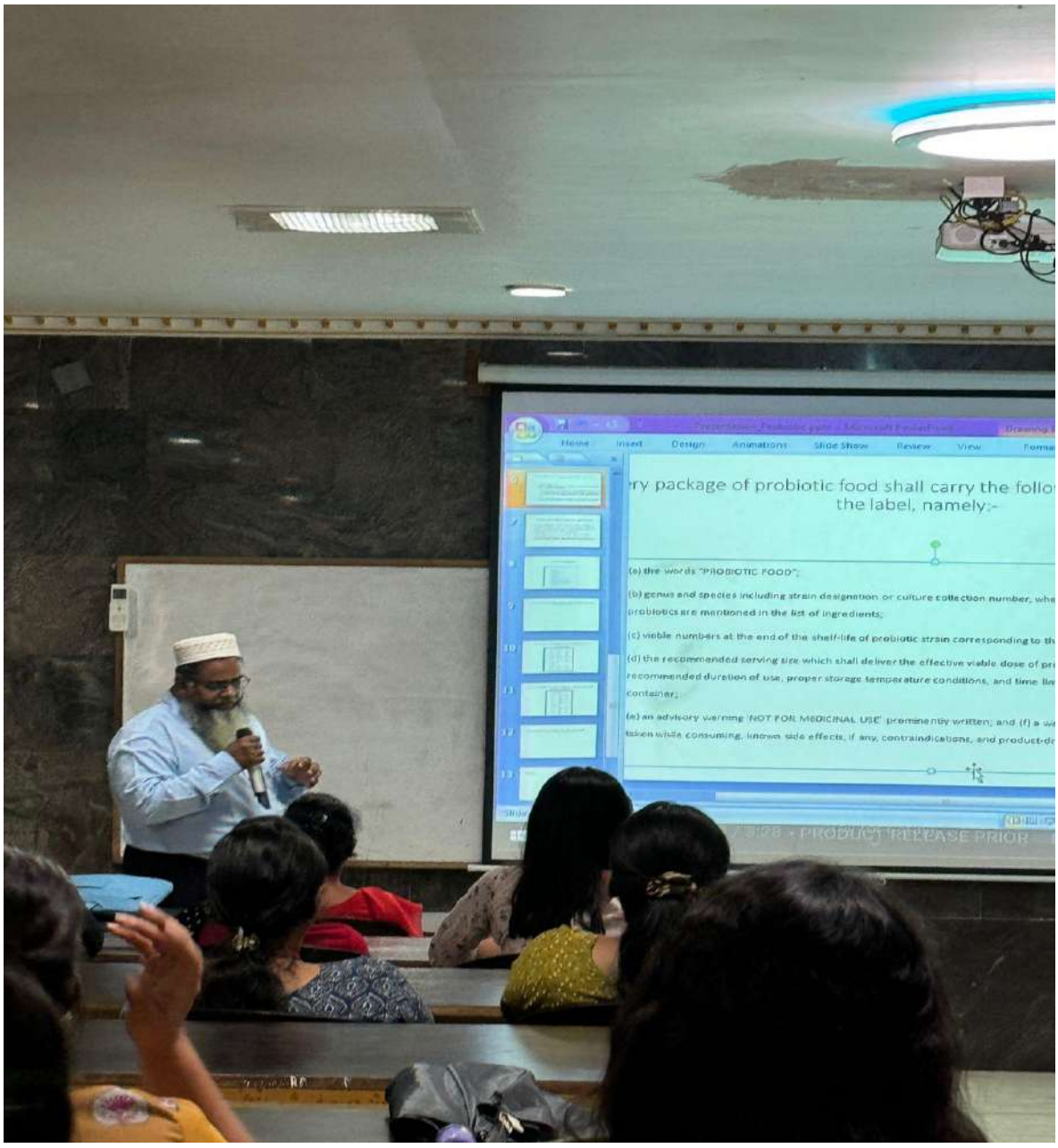
On the 12th of March, 2024, 3RD year (2021 – 2025) students of the Department of Biotechnology orchestrated a remarkable event titled "Symposium on Prebiotics & Probiotics In Innovative Product Development: A Way Forward For Bio Entrepreneurship" with the invaluable assistance of their esteemed Faculty organizers. Dr. P. Prakesh, Assistant Professor in the Department of Biotechnology, Dr. L. Inbathamizh, Head, Department of Clinical Nutrition & Dietetics (CND) and Assistant Professor, Department of Biotechnology, and Dr. S. Usha Nandhini, Assistant Professor, Department of Biotechnology, lent their unwavering support to this endeavor.

The day's proceedings commenced with a riveting discourse delivered by Mr. K. Siraj, the illustrious Managing Director of In Lead Management Services, who eloquently elucidated the subject of "Prebiotics and Probiotics" from 10 am until 11:30 am. His profound insights and expertise captivated the audience, igniting their intellectual curiosity and fostering a deeper appreciation for these vital components of health and well-being.



At the stroke of 12:30 pm, the highly anticipated "Pre Pro Nexus" event commenced, serving as a vibrant platform for students from various departments to showcase their culinary prowess and innovative spirit. With prebiotics and probiotics as their muse, these budding chefs unleashed their creativity, concocting an array of inventive and tantalizing dishes that not only delighted the palate but also demonstrated their profound comprehension of the synergistic relationship between these remarkable substances and gastronomy.

The event was a resounding success, a testament to the collaborative efforts of the Department of Biotechnology, its esteemed faculty, and the unwavering enthusiasm of the students who embraced the opportunity to explore the fascinating realms of prebiotics and probiotics through the lens of culinary artistry.




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INSTITUTE OF SCIENCE AND TECHNOLOGY

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CERTIFICATE OF MERIT

This is to certify that **Sathiya Priya S** of **Second year B.Sc Clinical Nutrition & Dietetics** has secured **First place** in PrePro Nexus in the SYMPOSIUM ON PREBIOTICS & PROBIOTICS IN INNOVATIVE PRODUCT DEVELOPMENT organized by the Department of Biotechnology and the Department of Clinical Nutrition & Dietetics on **12th March 2024.**

DR.V.RAMESH KUMAR
HEAD OF THE DEPARTMENT
DEPARTMENT OF BIOTECHNOLOGY

DR.P.PRAKASH
ASSISTANT PROFESSOR
DEPARMENT OF BIOTECHNOLOGY

DR.L.INBATHAMIZH
HEAD OF THE DEPARTMENT
DEPARTMENT OF CLINICAL NUTRITION & DIETETICS

SATHYABAMA

INSTITUTE OF SCIENCE AND TECHNOLOGY

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CERTIFICATE OF MERIT

This is to certify that **Mithila. R** of **Second year B.Tech Biotechnology** has secured **Second place** in PrePro Nexus in the SYMPOSIUM ON PREBIOTICS & PROBIOTICS IN INNOVATIVE PRODUCT DEVELOPMENT organized by the Department of Biotechnology and the Department of Clinical Nutrition & Dietetics on **12th March 2024.**

DR.V.RAMESH KUMAR
HEAD OF THE DEPARTMENT
DEPARTMENT OF BIOTECHNOLOGY

DR.P.PRAKASH
ASSISTANT PROFESSOR
DEPARMENT OF BIOTECHNOLOGY

DR.L.INBATHAMIZH
HEAD OF THE DEPARTMENT
DEPARTMENT OF CLINICAL NUTRITION & DIETETICS

TOPIC: LEAD TALK’24.

DATE OF THE EVENT: 4th April 4, 2024.

TIME: 09:30 AM -12:30 PM.

VENUE: BIO AND CHEMICAL SEMINAR HALL, SATHYABAMA INSTITUTE OF SCIENCE TECHNOLOGY.

CHIEF GUESTS: Sudarshan Varadharajan [CEO of Biversity] and Mrs.Revathi Ravishankar [CEO of RangBio Solutiuons Ltd]









The Community for United Biological Science (CUBS) hosted a successful "LEAD TALK'24 (Empowering Leadership Summit)" at Sathyabama Institute of Science and Technology. The event catered to second-year students from Biotechnology, Microbiology, and Biochemistry programs.

CUBS members skillfully guided the audience through the program. Esteemed faculty members, including department heads and assistant professors, were present to support the initiative.

The program began with the Tamil Thai Vazlthu, followed by the felicitation of the esteemed chief guests – Mr. Sudharshan Varatharajan (CEO and co-founder of Bversity) and Mrs. Revathi Ravi Shankar (CEO of Rang Bio Solutions). In line with CUBS tradition, they were presented with saplings as tokens of gratitude.

Mr. Varatharajan and Mrs. Ravi Shankar delivered insightful leadership discussions. Mr. Varatharajan, whose mission is to democratize biology for aspiring biologists, showcased the potential of Bversity. Mrs. Ravi Shankar shared her expertise in utilizing microbes for organic dye production, highlighting the power of entrepreneurial ventures in Rang Bio Solutions. Their impactful talks not only inspired the audience but also provided valuable entrepreneurial insights.

The interactive session kept the audience engaged. Both speakers encouraged questions, shared practical advice, and offered inspirational guidance for aspiring entrepreneurs, demonstrating effective leadership in nurturing future business leaders.

The CUBS tradition of the "Pledge Wall" allowed attendees to share their feedback. The positive responses solidified the program's success and motivated CUBS members to continue organizing such informative events. CUBS members ensured the smooth execution of the event, including escorting the guests at its conclusion.

Overall, LEAD TALK'24 served as a valuable roadmap for aspiring entrepreneurs. It provided an enriching experience by showcasing the path to entrepreneurship, fostering networking opportunities, and highlighting the advantages of this career path. This event not only laid the groundwork for leadership development in the business world but also illuminated the potential of entrepreneurship in shaping the future of biotechnology.

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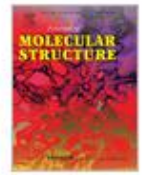
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Cited by (8)

ELSEVIER

Journal of Molecular Structure

Volume 1292, 15 November 2023, 136109



Hydrogen-bonded keto-enol mechanized chalcone material for optical and antibiofilm applications

V. Ramkumar [a], Chaitany Jayaprakash Raorane [a], H.J. Christy [b], S. Anandhi [c], M. Santhamoorthy [a], P. Kamachiyappan [d], A. Ashokkumar [d], S. Balamurugan [e], S.C. Kim [a]

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Highlights

- The present work focuses on the amendment of the preparation of novel keto-enol mechanized chalcone material for optical and anti-biofilm application.

ÇUKUROVA UNIVERSITY
INTERNATIONAL OFFICE
01330, Sarıçam, Adana, Türkiye Tel/Fax (+90) 322 3386411, e-posta: erasmus@cu.edu.tr

LETTER OF INVITATION

CUKUROVA UNIVERSITY

confirms that

GOWRI S

from SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY, India

has been accepted for the **International Staff Week 2023**
"*Diverse perspectives & Inspiring ideas*"
to give 10-hour lectures under Staff Mobility for Teaching

organized within the framework of ERASMUS+ Mobility Programme
from 30.10.2023 to 03.11.2023.

Adana, 02.10.2023

Semra Sadık Krupka
Erasmus+ Institutional Coordinator

ÇUKUROVA UNIVERSITY
INTERNATIONAL OFFICE
01330, Sarıçam, Adana, Türkiye Tel/Fax (+90) 322 3386411, e-posta: erasmus@cu.edu.tr

LETTER OF INVITATION

CUKUROVA UNIVERSITY

confirms that

NIRMALRANI V

from SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY, India

has been accepted for the **International Staff Week 2023**
"*Diverse perspectives & Inspiring ideas*"
to give 10-hour lectures under Staff Mobility for Teaching

organized within the framework of ERASMUS+ Mobility Programme
from 30.10.2023 to 03.11.2023.

Adana, 02.10.2023

Semra Sadık Krupka
Erasmus+ Institutional Coordinator

PUSAT HUBUNGAN ANTARABANGSA
CENTRE FOR INTERNATIONAL RELATIONS
Universiti Malaysia Pahang
Lebuhraya Tun Razak
26300 Gambang,
Kuantan Pahang Darul Makmur

Tel : +609 549 2722
Faks : +609 549 2729
e-mel : cir_visa@ump.edu.my
cir@ump.edu.my

Our Ref. :UMP.21/13.10/1(53)
Date : 25th July 2022

PATCHIGOLLA SHANMUKA SREE (PASSPORT NO: W2691658)
SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY
600119 CHENNAI
INDIA

Dear Mr./Ms.,

STUDENT MOBILITY PROGRAMME WITH UNIVERSITI MALAYSIA PAHANG (UMP)

It is our pleasure to extend to you an offer to participate in the Student Mobility Programme at Universiti Malaysia Pahang (UMP).

The particulars of this offer are as follows:

Intake	**: Semester I, Academic Session 2022/2023**
Programme	**: Bachelor of Computer Science (Computer Systems & Networking) With Honours**
Duration	**: One (1) semester**
College/ Faculty	**: College of Computing and Applied Sciences**
Fees	**: Refer to fees table attached**
Registration time and date	**: 9:00am, 26th September 2022**
Registration venue	**: Centre for International Relations, UMP Pekan**

During the above mentioned programme duration, you are subjected to and shall abide by all Academic Rules and Regulations and other rules and regulations/ directions issues from time to time by UMP.

The offer made herein and fees as stated above have been jointly agreed with your Home University. However, please also take note that all expenses pertaining to immigration matters and quarantine (if any) are to be borne by you.

Restriction of international border is subject to change and determined by the government of Malaysia. In order to confirm your enrolment, you will need to follow the steps listed in the guidelines attached. Please return the enclosed acceptance and hostel booking form within 14 days from the date this offer letter is issued.

The University takes this opportunity to wish you "Selamat Datang" and hopes that you will have an exciting and enriching learning experience at UMP. For matters related to your mobility programme at UMP, kindly contact our dedicated staff, Ms. Nurul Amira binti Norhalizan through email mobility@ump.edu.my for any further assistance.

Thank you.

Sincerely,

NORUL FADILAH BINTI ABDULLAH
Senior Executive
Centre for International Relations

PUSAT HUBUNGAN ANTARABANGSA
CENTRE FOR INTERNATIONAL RELATIONS
Universiti Malaysia Pahang
Lebuh Persiaran Tun Khalil Yaakob
26300 Gambang, Kuantan
Pahang Darul Makmur

Tel : +609-431 5032
Faks : +609 549 2729
e-mel : cir_visa@ump.edu.my
: cir@ump.edu.my

Our Ref. :UMP.21/13.10/1(29)
Date :24th July 2023

BABU JANARTH (PASSPORT NO: Y6017208)
SATHYABAMA INSTITUTE OF SCIENCE & TECHNOLOGY
600119 CHENNAI
INDIA

Dear Mr./Ms.,

STUDENT MOBILITY PROGRAMME WITH UNIVERSITI MALAYSIA PAHANG (UMP)

Congratulations! It is our pleasure to extend to you an offer to participate in the Student Mobility Programme at Universiti Malaysia Pahang (UMP).

The particulars of this offer are as follows:

Type of mobility	**: Semester Exchange**
Intake	**: Semester I, Academic Session 2023/2024**
Programme	**: Bachelor of Computer Science (Computer Systems & Networking) with Honours**
Duration	**: 9th October 2023 – 8th February 2024 (1 semester)**
College/ Faculty	**: Faculty of Computing**
Fees	**: Refer to fees table attached**
Registration Period	**: 30th September 2023- 13th October 2023**
Registration venue	**: Centre for International Relations, UMP Pekan**

During the above mentioned programme duration, you are subjected to and shall abide by all Academic Rules and Regulations and other rules and regulations/ directions issues from time to time by UMP.

The offer made herein and the above fees have been jointly agreed with your Home University. However, please also take note that all expenses pertaining to immigration matters are to be borne by you.

In order to confirm your enrollment, you will need to follow steps listed in the guidelines attached. Kindly note that you must have a valid mobility student pass and also complete a mandatory post-arrival medical check-up within 7 days upon arrival and the registration process can only proceed once you have successfully passed the post arrival medical check-up. Please return the enclosed acceptance and hostel reservation form within 14 days from the date this offer letter is issued.

The University takes this opportunity to wish you "Selamat Datang" and hopes that you will have an exciting and enriching learning experience at UMP. For matters related to your mobility programme at UMP, kindly contact our dedicated staff, Ms. Nurul Amira binti Norhalizan through email mobility@ump.edu.my for any further assistance.

Thank you.

Sincerely,

ASSOC. PROF. DR. MOHD AZMIR BIN MOHD AZHARI
Director
Centre for International Relations

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Serial No.: UMPSA.21-2024/II (28)

UNIVERSITI MALAYSIA PAHANG
AL-SULTAN ABDULLAH

CERTIFICATE OF COMPLETION

This is to certify that

NAGARAJAN SUNANDA
(STUDENT ID: CB23156)

from

SATHYABAMA INSTITUTE OF SCIENCE & TECHNOLOGY, INDIA

has successfully completed

STUDENT MOBILITY PROGRAMME

on

4 MARCH 2024 – 10 JULY 2024

at

UNIVERSITI MALAYSIA PAHANG AL-SULTAN ABDULLAH

ASSOC. PROF. DR. -ING. MOHD AZMIR BIN MOHD AZHARI
Director
Centre for International Relations

UNIVERSITI MALAYSIA PAHANG AL-SULTAN ABDULLAH
UMPSA

aws training and certification

Awarded to

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For successfully completing the programme

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3rd June to 24th June 2023

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VP, AWS Training & Certification

NUS National University of Singapore

Advanced Computing for Executives
School of Computing

CERTIFICATE OF COMPLETION

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has completed the

Data Analytics using Deep Learning (as part of Corporate Gurukul's Global Academic Internship Programme)

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For successfully completing the programme

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3rd June to 24th June 2023

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VP, AWS Training & Certification

NUS National University of Singapore

Advanced Computing for Executives
School of Computing

CERTIFICATE OF COMPLETION

This is to certify that

Karthikeyan S

has completed the

Data Analytics using Deep Learning (as part of Corporate Gurukul's Global Academic Internship Programme)

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Dr Chan Mun Kitt

Head, Executive Education
School of Computing

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Rushidharan B

For successfully completing the programme

Data Analytics Using Deep Learning

3rd June to 24th June 2023

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VP, AWS Training & Certification

NUS National University of Singapore

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School of Computing

CERTIFICATE OF COMPLETION

This is to certify that

Rushidharan B

has completed the

Data Analytics using Deep Learning (as part of Corporate Gurukul's Global Academic Internship Programme)

5th June 2023 to 21st June 2023

Dr Chan Mun Kitt

Head, Executive Education
School of Computing

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Serial No.: 75920221

CORPORATE GURUKUL

15th April, 2023

The Visa Officer
Singapore High Commission
India

Subject: Invitation Letter for Patoju Shashank for attending Global Academic Internship Programme (GAIP) at Singapore

Corporate Gurukul Pte Ltd., Singapore is organizing the Global Academic Internship Programme (GAIP), a training programme on 'Data Analytics using Deep Learning' in Singapore from 3rd June 2023 to 24th June 2023.

We would like to invite PATOJU SHASHANK bearing Passport Number U3399296 for the same.

The programme will be conducted at National University of Singapore (NUS), Singapore. The programme is being independently organized by Corporate Gurukul Pte Ltd., Singapore.

The participants will be staying at Prince George Park Residences, 27 Prince George's Park, National University of Singapore, Singapore 118425.

This invite letter is being issued for the purpose of visa application.

We request you to kindly grant visa for Patoju Shashank at the earliest.

Sincerely,



Rajesh Panda
Managing Director
Corporate Gurukul Pte Ltd, Singapore
Mob :+65 83638656
rajesh.panda@corporategurukul.com



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Assoc. Director,	Director, CS Outreach	CS Dept. head
CS Outreach		

Review History Report

Ashok kumar Kulandasamy

From: 1 January 2021 To: 15 September 2023

All dates in GMT

Total journals reviewed for:	**2**
Total reviews completed:	**2**



Engineering Applications of Artificial Intelligence 1



Measurement: Sensors 1

Review History Report

Ashok kumar Kulandasamy

From: 1 January 2021 To: 15 September 2023

All dates in GMT



Engineering Applications of Artificial Intelligence

1 reviews completed

Manuscript title	Revision	Date completed
Investigating the Influence of Dimensionality Reduction on Force Estimation in Robotic-Assisted Surgery Using Recurrent and Convolutional Networks	0	10 June 2023

Review History Report

Ashok kumar Kulandasamy

From: 1 January 2021 To: 15 September 2023

All dates in GMT



Measurement: Sensors

1 reviews completed

Manuscript title	Revision	Date completed
SECURED CONTROL SYSTEMS THROUGH INTEGRATED IOT DEVICES AND CONTROL SYSTEMS	0	16 August 2022

B P International

Certificate No: BPI/PR/Cert/7847E.2 /DRK

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Sathyabama Institute of Science & Technology (Deemed to be University), India

in recognition of an outstanding contribution to the quality of the book.

Date: 29-Mar-2024

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ashok kumar <ashokkumar.cse@sathyabama.ac.in>

Thank you for submitting your review of Manuscript ID TIJR-2023-1383 for IETE Journal of Research

1 message

IETE Journal of Research <onbehalfof@manuscriptcentral.com> Wed, Jun 28, 2023 at 10:53 AM
Reply-To: lalit@nith.ac.in
To: ashokkumar.cse@sathyabamauniversity.ac.in

28-Jun-2023

Dear Dr K. Ashok Kumar:

Thank you for reviewing the above manuscript, entitled "EESNN-CSOA for IoT based Plant Disease Detection" for IETE Journal of Research.

We greatly appreciate the voluntary contribution that each reviewer gives to the Journal. We hope that we may continue to seek your assistance with the refereeing process for IETE Journal of Research, and hope also to receive your own research papers that are appropriate to our aims and scope.

Sincerely,
Professor Awasthi
Editor, IETE Journal of Research
lalit@nith.ac.in

/.

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ashok kumar <ashokkumar.cse@sathyabama.ac.in>

Thank you for reviewing - Journal of Field Robotics Manuscript ID ROB-24-0178

1 message

Yogalakshmi Jaya Shankar <onbehalfof@manuscriptcentral.com> Sat, May 11, 2024 at 2:22 PM
Reply-To: rob.office@wiley.com
To: ashokkumar.cse@sathyabamauniversity.ac.in

11-May-2024

Dear Prof. Kumar

Thank you for reviewing the manuscript ROB-24-0178. Your time and effort is greatly appreciated by the journal editors and by the authors.

Yours sincerely
Dr. Yingxiang Liu
Journal of Field Robotics
liuyingxiang868@hit.edu.cn

Sathyabama Institute of Science & Technology WEBMAIL

ashok kumar <ashokkumar.cse@sathyabama.ac.in>

Thank you for reviewing for Computers and Electrical Engineering

1 message

Computers and Electrical Engineering <em@editorialmanager.com> Thu, May 16, 2024 at 2:00 PM
Reply-To: Computers and Electrical Engineering <support@elsevier.com>
To: "K. Ashok Kumar" <ashokkumar.cse@sathyabama.ac.in>

Manuscript Number: **COMPELECENG-D-24-01643**

Internet of Things Based Face Recognition Using MobileNetV2 and FaceNet Deep Learning Implementations on Raspberry Pi-400

Dear Ashok Kumar,

Thank you for reviewing the above referenced manuscript. I greatly appreciate your contribution and time, which not only assisted me in reaching my decision, but also enables the author(s) to disseminate their work at the highest possible quality. Without the dedication of reviewers like you, it would be impossible to manage an efficient peer review process and maintain the high standards necessary for a successful journal.

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Ying Bi
Associate Editor
Computers and Electrical Engineering

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Computers and Electronics in Agriculture <em@editorialmanager.com> Sat, Jan 27, 2024 at 12:44 PM
Reply-To: Computers and Electronics in Agriculture <support@elsevier.com>
To: Ashokkumar Kulandasamy <ashokkumar.cse@sathyabama.ac.in>

Manuscript Number: **COMPAG-D-23-05707**

Low-damage fetching method for pepper seedlings based on Res-Unet

Xin Jin; Shuang Chen; Ruoshi Li; Qing Li; song gu; Guowei Liu; Jiangtao Ji

Dear Dr Kulandasamy,

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You can always claim your 30-day access period later, however, please be aware that the access link will expire six months after you have accepted to review.

Kind regards,

Yiannis Ampatzidis, Ph.D

Associate Editor

Computers and Electronics in Agriculture

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Sathyabama Institute of Science & Technology WEBMAIL

ashok kumar <ashokkumar.cse@sathyabama.ac.in>

Thank you for submitting your review of Manuscript ID TIDF-2023-0188 for International Journal of Image and Data Fusion

1 message

International Journal of Image and Data Fusion <onbehalfof@manuscriptcentral.com> Fri, Aug 18, 2023 at 11:46 AM

Reply-To: zhailiang@casm.ac.cn
To: ashokkumar.cse@sathyabama.ac.in

18-Aug-2023

Dear Dr K. Ashokkumar:

Thank you for reviewing the above manuscript, entitled "Deep Hybrid Classification Model for Leaf Disease Classification of Underground Crops" for International Journal of Image and Data Fusion.

We greatly appreciate the voluntary contribution that each reviewer gives to the Journal. We hope that we may continue to seek your assistance with the refereeing process for International Journal of Image and Data Fusion, and hope also to receive your own research papers that are appropriate to our aims and scope.

We would be interested to hear your experience of reviewing for us today, please click the following link to complete a short survey: https://survey.alchemer.eu/s3/90329429/Taylor-Francis-peer-review-survey?ac=TIDF

Sincerely,
Professor Zhai
Associate Editor, International Journal of Image and Data Fusion
zhailiang@casm.ac.cn, zhailiang@126.com

Sathyabama Institute of Science & Technology WEBMAIL

ashok kumar <ashokkumar.cse@sathyabama.ac.in>

Thank you for submitting your review of Manuscript ID TII-23-2577 for the IEEE Transactions on Industrial Informatics

1 message

IEEE Transactions on Industrial Informatics <onbehalfof@manuscriptcentral.com> Wed, Jul 19, 2023 at 3:05 PM

Reply-To: francesco.piccialli@unina.it
To: ashokkumar.cse@sathyabamauniversity.ac.in

19-Jul-2023

Dear Dr. Kumar:

Thank you for reviewing manuscript # TII-23-2577 entitled "Design of Tobacco Leaves Classifier Through Fuzzy Clustering-based Neural Networks with Multiple Histogram Analyses of Images" for the IEEE Transactions on Industrial Informatics.

On behalf of the Editors of the IEEE Transactions on Industrial Informatics, we appreciate the voluntary contribution that each reviewer gives to the Journal. We thank you for your participation in the online review process and hope that we may call upon you again to review future manuscripts.

Sincerely,
Prof. Francesco Piccialli
Associate Editor, IEEE Transactions on Industrial Informatics
francesco.piccialli@unina.it

Sathyabama Institute of Science & Technology WEBMAIL

ashok kumar <ashokkumar.cse@sathyabama.ac.in>

Thank you for the review of IFS-233946

1 message

Journal of Intelligent & Fuzzy Systems <em@editorialmanager.com> Wed, Jul 12, 2023 at 1:59 PM
Reply-To: Journal of Intelligent & Fuzzy Systems <s.dejong@iospress.nl>
To: "K. Ashok Kumar" <ashokkumar.cse@sathyabamauniversity.ac.in>

Ref.: Ms. No. IFS-233946
The Usability Evaluation of Cloud Library Distribution Platform Based on FAHP
Journal of Intelligent & Fuzzy Systems

Dear Dr Kumar,

Thank You for your review of this manuscript.

You may access your review comments and the decision letter (when available) by logging on to the Editorial Manager site at

https://www.editorialmanager.com/jifs/
username: KKumar-772
If you do not know your confidential password, you may reset it by clicking this link: https://www.editorialmanager.com/jifs/l.asp?i=1208894&l=2T00MLTY

Kind regards,

Shahzaib Ashraf
Associate Editor
Journal of Intelligent & Fuzzy Systems

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Presented to

Dr. A Yovan Felix

of

Sathyabama Institute of Science and Technology

for the contribution as a Technical Programme Committee Member and Reviewer in the 2nd International Conference on

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during December 7-9, 2023

Prof. (Dr) R Sridaran
Convener & General Chair,
ASCIS 2023

Prof. (Dr) R B Jadeja
Pro Vice-Chancellor,
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for contributing as a **Technical Reviewer** in the International Conference on Computational Intelligence, Networks and Security (ICCINS 2023) held on 22nd and 23rd December 2023, organized by the departments of CSE, IT, and AI&DS Lakireddy Bali Reddy College of Engineering (A) Mylavaram.

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November 6, 2023

To whom it may concern,

As the Publisher of PeerJ, I can confirm that in May 2023, Ajitha Ponnupillai performed a peer-review for a submission. The manuscript has not yet been published and therefore the title and any information contained within the manuscript is still subject to confidentiality rules.

We thank Ajitha Ponnupillai for their willingness to contribute to the academic community in this way.

Yours,



Peter Binfield
Co-Founder and Publisher, PeerJ

ICCCSP 2023

7th International Conference on Computer, Communication and Signal Processing

Sri Sivasubramaniya Nadar College of Engineering

Department of Information Technology

CERTIFICATE OF APPRECIATION

This certificate is presented to:

***Dr. P. Ajitha* of**

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In recognition as valuable reviewer for the conference

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JAI 45958: Review Thanks

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Tsp Online System <admin@tspsubmission.com> Mon, Oct 2
to me

Journal on Artificial Intelligence
ISSN: 2579-003X

Dear Dr. Ajitha, P.,

Thank you for completing the review of the submission, "Text Summarization Using Pretrained Transformers and Extractive C Tuned MultiFact Corrections", for Journal on Artificial Intelligence. We sincerely appreciate your contribution.

Journal on Artificial Intelligence

871 Coronado Center Drive, Suite 200,

Henderson, Nevada, 89052, USA

Tel: +1 702 673 0457

Fax: +1 844 635 2598

Office Hours: 9:00-17:00 (UTC -8:00)

Home Page: http://techscience.com/journal/jai

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1,687

Thank you - let us know how we can improve the reviewing

Wireless Personal Communications <em@editorialmanager.com>
to me

Dear Dr sangari,

Thank you very much for your review of manuscript
WIRE-D-21-00955R1, "Autonomous Leukemia Detection Scheme based on Hybrid Convolutional N
We greatly appreciate your assistance.

With kind regards,
Journals Editorial Office
Springer

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Nagarajan G <gnagarajan.cse@sathyabama.ac.in>

Invitation to review manuscript for Journal of Intelligent & Fuzzy Systems - Reminder

1 message

Journal of Intelligent & Fuzzy Systems <em@editorialmanager.com> Mon, Feb 6, 2023 at 12:02 PM
Reply-To: Journal of Intelligent & Fuzzy Systems <s.dejong@iospress.nl>
To: "G. Nagarajan" <gnagarajan.cse@sathyabama.ac.in>

Ref.: Ms. No. IFS-223849
Performance Analysis of Deep Rain Streaks Removal CNN based in-loop Filtering for HEVC Encoder
Journal of Intelligent & Fuzzy Systems

Dear Nagarajan,

On Feb 01, 2023 an Associate Editor for the Journal of Intelligent & Fuzzy Systems sent you a request to review a paper entitled Performance Analysis of Deep Rain Streaks Removal CNN based in-loop Filtering for HEVC Encoder.

Unfortunately we have not yet received a response from you, possibly because the original invitation went astray. We would be grateful if you could let us know if you can carry out this review.

This is the abstract:
Abstract. High-efficiency video coding (HEVC) standard is a widely used video coding standard in the consumer market due to its bit rate reduction capability and good video reconstruction. The visual appearance of the video sequences is improved using the in-loop filtering unit of the encoder. This in-loop filtering is proficient to handle the various realtime noise effectively. However, the encoder performance is deeply affected due to video sequences with bad weather conditions parameters such as rain, snow, and Haze. Conventional in-loop filtering module faces more issues due to the presence of statistical rain pattern in the video frames which directly affect the Rate-Distortion performance of the encoder. To address the above in-loop filtering-based issues, we have proposed dual stage deep rain streaks removal CNNbased in-loop filtering module. This in-loop filtering module consists of a modified Residual Dense block and Six stage scale feature aggregation module to
study the various rain streaks during the training stage and eliminates the rain streaks from the successive video frames. The performance analysis was conducted on various rain streaks affected video sequences and the proposed rain streaks removal in-loop filtering provides a better PSNR value and higher bit rate reduction in RA and LDB configuration

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The manuscript reference is IFS-223849.

If possible, I would appreciate receiving your review by Mar 03, 2023. If possible, I would appreciate receiving your review in 30 days. You may submit your comments online at the above URL. There you will find spaces for confidential comments to the editor, comments for the author and a report form to be completed.

Kind regards,

Journal of Intelligent & Fuzzy Systems
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Sathyabama Institute of Science & Technology WEBMAIL

Nagarajan G <gnagarajan.cse@sathyabama.ac.in>

Reviewer Invitation for SDNS for IOT Environments: DDOS Attack Detection and Mitigation Using Machine Learning

1 message

em@editorialmanager.com <em@editorialmanager.com> Wed, Mar 1, 2023 at 3:23 PM
Reply-To: ucbs-peerreview@journals.tandf.co.uk
To: "G. Nagarajan" <gnagarajan.cse@sathyabama.ac.in>

Mar 01, 2023

Dear Dr. Nagarajan,

You have been invited to review a manuscript for Cybernetics and Systems.

I would be grateful if you would review a paper entitled "SDNS for IOT Environments: DDOS Attack Detection and Mitigation Using Machine Learning" for this journal.

This is the abstract:
Software defined network (SDN) platforms play a key role in providing security against today's Internet attacks. SDNs decouple the control plane from the data plane to maximize network performance A DDOS attack is one of several in cloud-based networks. SDNs play a crucial role in controlling DDoS attacks and protecting end nodes like IoT nodes, as well as other computing devices, in large-scale cloud networks. This paper provides an efficient approach to DDoS attack detection and prevention using machine learning algorithms. The paper analyses the performance of SDNs in IoT systems, incorporating a huge set of computing devices that use multi-controllers. It also proposes an effective method to handle DDoS attacks. DDoS attacks are generated from IoT end devices in the infrastructure layer, which target resources via an SDN-controlled testbed. The proposed ML method outperforms existing methods in terms of accurately and effectively detecting and mitigating flooding DDoS attacks with 99.99% accuracy.

If you would like to review this paper, please click this link: Agree to Review *

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If the above links do not work, please go to https://www.editorialmanager.com/ucbs/. Your User Name is G.Nagarajan and your password can be set at this link: click here to create your password and login.

The manuscript reference is UCBS-2023-0612.

If possible, I would appreciate receiving your review in 14 days. You may submit your comments online at the above URL. There you will find spaces for confidential comments to the editor, comments for the author and a report form to be completed.

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On behalf of

Karin Pils-Vorsteher
Editorial Assistant

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Gmail Jeberson Retna Raj <jebersonretnarajr@gmail.com>

Thank you for reviewing for Heliyon

Heliyon <em@editorialmanager.com> Wed, Dec 13, 2023 at 2:55 PM
Reply-To: Heliyon <info@heliyon.com>
To: "R. Jeberson Retna Raj" <jebersonretnarajr@gmail.com>

Manuscript Number: HELIYON-D-23-34511

Exploring the Effectiveness of Machine Learning Algorithms for Sentiment Analysis: A Systematic Literature Review

Dear Jeberson Retna Raj,

Thank you for reviewing the above referenced manuscript for Heliyon, an open access journal that is part of the Cell Press family. I greatly appreciate your contribution and time, which not only assisted me in reaching my decision, but also enables the author(s) to disseminate their work at the highest possible quality. Without the dedication of reviewers like you, it would be impossible to manage an efficient peer review process and maintain the high standards necessary for a successful journal.

I hope that you will consider Heliyon as a potential journal for your own submissions in the future.

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Alphy Sebastian P, Ph.D.
Associate Scientific Editor
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Gmail Jeberson Retna Raj <jebersonretnarajr@gmail.com>

Reviewer Invitation for ESWA-D-23-15167

Expert Systems with Applications <em@editorialmanager.com> Thu, Jan 25, 2024 at 1:07 PM
Reply-To: Expert Systems with Applications <support@elsevier.com>
To: Jeberson Retna Raj R <jebersonretnarajr@gmail.com>

Ms. Ref. No.: **ESWA-D-23-15167**
Title: AN EFFICIENT TREE HIERARCHICAL DEEP CONVOLUTIONAL NEURAL NETWORK WITH GORILLA TROOPS OPTIMIZER FOR SENTIMENT ANALYSIS USING TWITTER DATA
Expert Systems With Applications

Dear Dr Jeberson Retna Raj R,

You are invited to review the above-mentioned manuscript that has been submitted for publication in Expert Systems With Applications.

You should treat this invitation, the manuscript and your review (as well as other reviewer comments shared with you) as confidential. You must not share your review or information about the review process with anyone without the agreement of the editors and authors involved, irrespective of the publication outcome. If the manuscript is rejected by this journal and the author agrees that the submission be transferred to another Elsevier journal via the Article Transfer Service, we may securely transfer your reviewer comments and name/contact details to the receiving journal editor for their peer review purposes.

The manuscript abstract is attached below. If you are willing to review this manuscript, please click on the link below:
Agree to Review

If you are NOT able to review this manuscript, please click on the link below. We would appreciate receiving suggestions for alternative reviewers:
Decline to Review

Alternatively, you may also register your response by accessing the Editorial Manager for Expert Systems With Applications as a REVIEWER using the logon credentials below:

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If you accept this invitation, I would be very grateful if you would return your review by **Feb 17, 2024**.

You may submit your comments online at the above URL. There you will find spaces for confidential comments to the editor, comments for the author and a report form to be completed.

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As a reviewer you are entitled to complimentary access to references, abstracts, and full-text articles on ScienceDirect and Scopus for 30 days. Full details on how to claim your access via Reviewer Hub (reviewerhub.elsevier.com) will be provided upon your acceptance of this invitation to review.

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With kind regards,

Kunjie Yu, Ph.D.
Associate Editor
Expert Systems With Applications

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ABSTRACT:
Sentiment analysis has emerged as a focal point for researchers, particularly in business and social network analysis. This process involves discerning, categorizing, and classifying sentiments or opinions expressed across social networks, such as tweets, announcements, and blog posts, generating vast emotions and rich information. Widely regarded as a valuable technique in artificial intelligence, Opinion mining, or sentiment analysis (SA), is a vital component in understanding public sentiment. Among social networks, Twitter stands out due to its large user base, where individuals succinctly express their thoughts and opinions within the constraint of 280 characters per tweet. However, analysing Twitter data poses challenges due to the presence of slang words, incorrect spellings, and the brief format of sentences. Various approaches, including knowledge and deep learning-based methods, have been employed opinion using text data. This paper proposes a novel approach called Tree Hierarchical Deep Convolutional Neural Network (THD-CNN) integrated with Gorilla Troops Optimizer (GTO) for SA using Twitter data. The input data is sourced from the SemEVAL-2017 Twitter dataset, comprising over 20 thousand tweets. The raw tweets undergo pre-processing to eliminate undesirable and redundant information, involving steps such as tokenization, stop-word removal, hashtag and username removal, non-alphabetical removal, lemmatization, and stemming. Following pre-processing, the data is fed into the THD-CNN model, designed to classify tweets as positive, neutral, or negative. The GTO algorithm is utilized for optimizing the parameters of THD-CNN, leveraging its exploration and exploitation stages to achieve optimal parameters for accurate tweet classification. The proposed methodology's performance is evaluated using the Python platform, and the performance of the proposed method provides higher accuracy 45.12%,25.13% and 36.17% conducted against existing techniques, including efficient parts of speech (POS) tagging and hybrid deep learning, SA was performed on Twitter (HDL-ANN), twitter data SA using DL and spider monkey optimization to forecast brand futures (IANFIS), and a deep learning-based LSTM with the best performance for stock price prediction using SA on Twitter (TLBO-LSTM). Metrics of performance such F-measure, recall, sensitivity, accuracy, precision and computational time are employed for the evaluation.

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Heliyon <em@editorialmanager.com> Wed, Dec 13, 2023 at 2:55 PM
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To: "R. Jeberson Retna Raj" <jebersonretnarajr@gmail.com>

Manuscript Number: HELIYON-D-23-34511

Exploring the Effectiveness of Machine Learning Algorithms for Sentiment Analysis: A Systematic Literature Review

Dear Jeberson Retna Raj,

Thank you for reviewing the above referenced manuscript for Heliyon, an open access journal that is part of the Cell Press family. I greatly appreciate your contribution and time, which not only assisted me in reaching my decision, but also enables the author(s) to disseminate their work at the highest possible quality. Without the dedication of reviewers like you, it would be impossible to manage an efficient peer review process and maintain the high standards necessary for a successful journal.

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Alphy Sebastian P, Ph.D.
Associate Scientific Editor
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Certificate of Appreciation

This is to recognise the contribution of

Dr. P. Asha

Sathyabama Institute of Science and Technology

as **REVIEWER** for **IEEE International Conference on Applied Intelligence and Sustainable Computing (ICAISC - 2023)** organized by Shri Dharmasthala Manjunatheshwara College of Engineering and Technology, Dharwad, 16th - 17th June 2023.

Prof. V.K PARVATI
Organizing Co-Chair, ICAISC - 2023
Public Relation Officer (PRO)
SDMCET, Dharwad

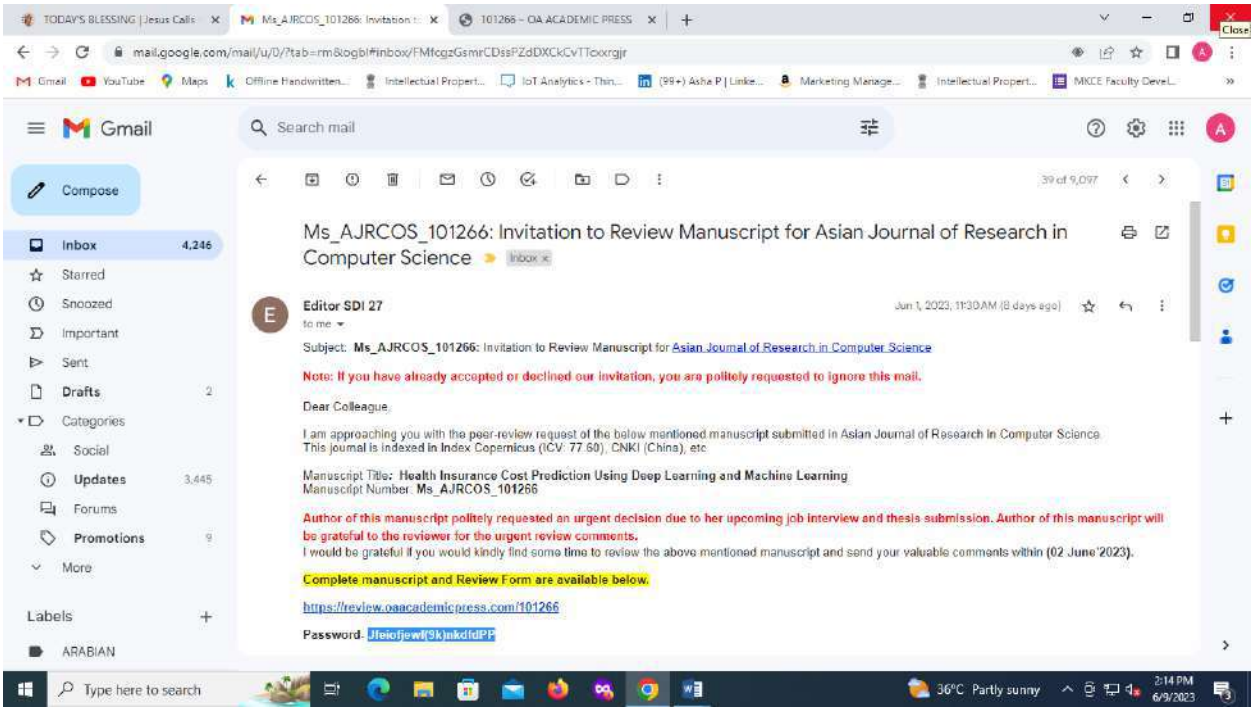
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Organizing Chair, ICAISC - 2023
Dean (III) & IEEE STB Counsellor
SDMCET, Dharwad

Dr. K. GOPINATH
Principal,
SDMCET, Dharwad

Reviewer_9 June 2023_ Asian Journal of Research in Computer Science, ISSN: 2581-8260

Indexed in Index Copernicus (ICV: 77.60), CNKI (China), Publons, Google Scholar, Mendeley.

Manuscript Title*:* **Health Insurance Cost Prediction Using Deep Learning and Machine Learning**
Manuscript Number: **Ms_AJRCOS_101266**



Ms_AJRCOS_101266: Invitation to Review Manuscript for Asian Journal of Research in Computer Science Inbox ×

Editor SDI 27 Jun 1, 2023, 11:30 AM (8 days ago)
to me

Subject: **Ms_AJRCOS_101266:** Invitation to Review Manuscript for Asian Journal of Research in Computer Science

Note: If you have already accepted or declined our invitation, you are politely requested to ignore this mail.

Dear Colleague,

I am approaching you with the peer-review request of the below mentioned manuscript submitted in Asian Journal of Research in Computer Science.
This journal is indexed in Index Copernicus (ICV: 77.60), CNKI (China), etc

Manuscript Title*:* **Health Insurance Cost Prediction Using Deep Learning and Machine Learning**
Manuscript Number: **Ms_AJRCOS_101266**

Author of this manuscript politely requested an urgent decision due to her upcoming job interview and thesis submission. Author of this manuscript will be grateful to the reviewer for the urgent review comments.
I would be grateful if you would kindly find some time to review the above mentioned manuscript and send your valuable comments within **(02 June'2023).**

Complete manuscript and Review Form are available below.

https://review.oaacademicpress.com/101266

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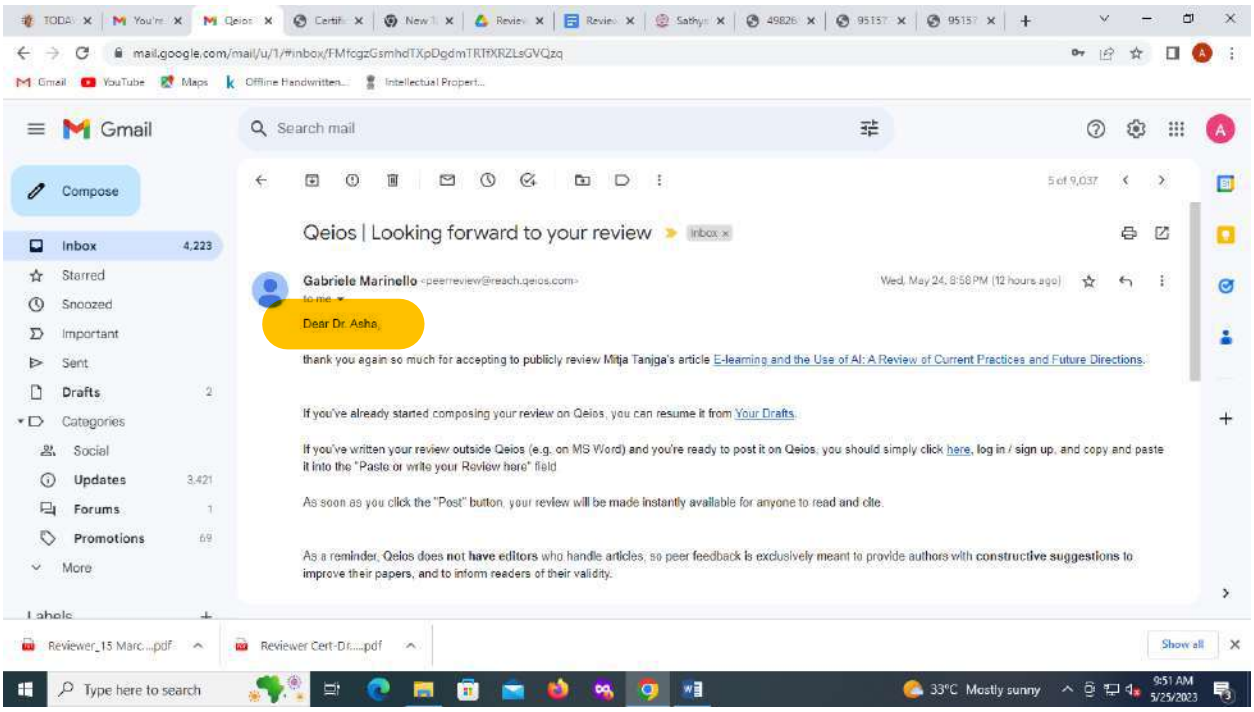
for AICTE Sponsored IEEE International Conference on Networks, Multimedia and Information Technology (NMITCON) is organized at Nitte Meenakshi Institute of Technology, Bengaluru INDIA during 1st and 2nd September 2023 in association with IEEE Bangalore Section.

Dr. PARAMESHACHARI B D
Conference Chair, NMITCON-2023
Professor, Dept. of ECE
NMIT, Bengaluru

Dr. Ramachandra A C
General Chair, NMITCON-2023
Professor and Head, Dept. of ECE
NMIT, Bengaluru

Reviewer_25 May 2023_ Qeios public review_Mitja Tanjga's article E-learning and the Use of AI: A Review of Current Practices and Future Directions.

Indexed in Google scholar.

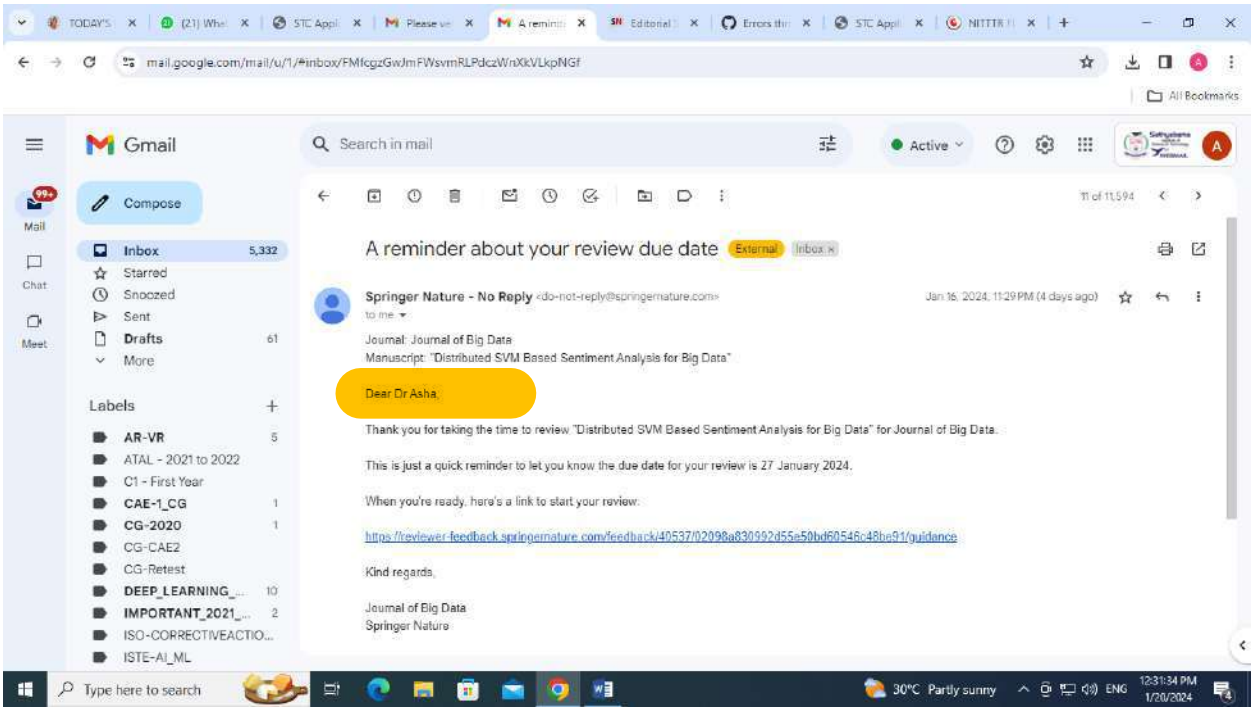


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Gabriele Marinello <peerreview@reach.qeios.com>
Wed, May 24, 8:58 PM (12 hours ago)
to me
Dear Dr. Asha,
thank you again so much for accepting to publicly review Mitja Tanjga's article E-learning and the Use of AI: A Review of Current Practices and Future Directions.
If you've already started composing your review on Qeios, you can resume it from Your Drafts.
If you've written your review outside Qeios (e.g. on MS Word) and you're ready to post it on Qeios, you should simply click here, log in / sign up, and copy and paste it into the "Paste or write your Review here" field.
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As a reminder, Qeios does **not have editors** who handle articles, so peer feedback is exclusively meant to provide authors with **constructive suggestions** to improve their papers, and to inform readers of their validity.

Reviewer_20 Jan 2024_Journal of Big Data_Springer_Impact factor 8.1_ISSN: 2196-1115_Scopus and WoS.

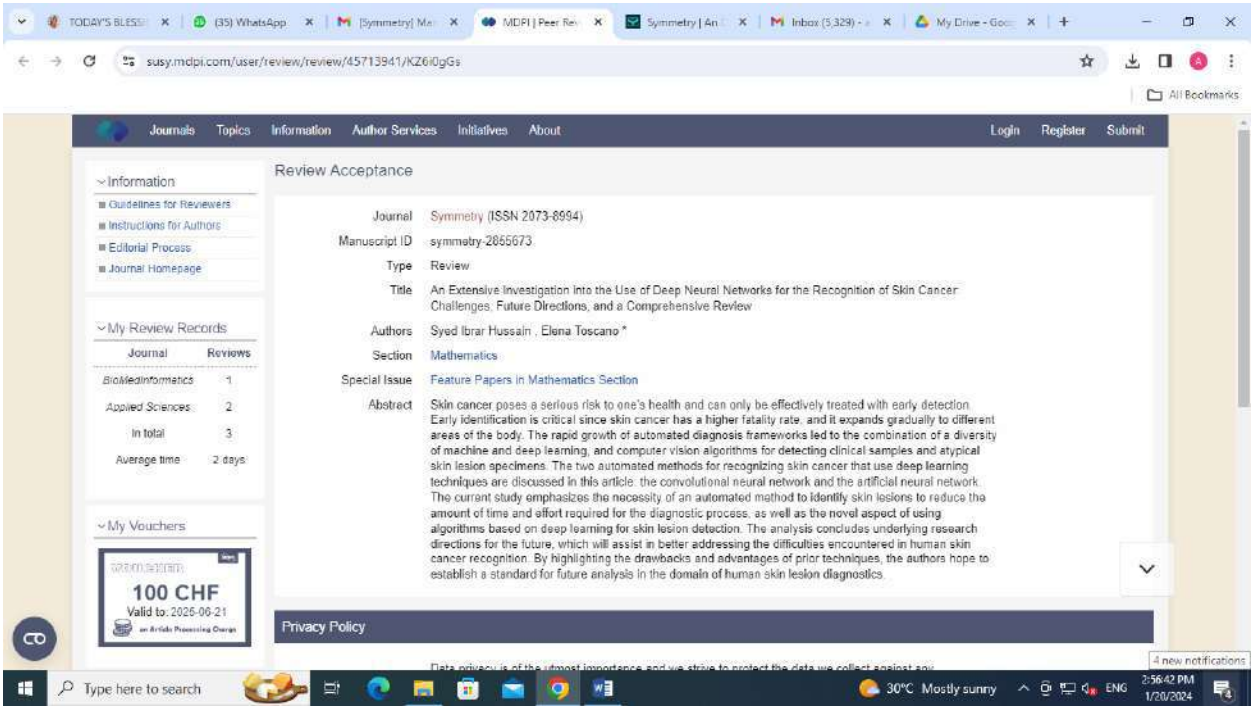
Journal: Journal of Big Data
Manuscript: "Distributed SVM Based Sentiment Analysis for Big Data"

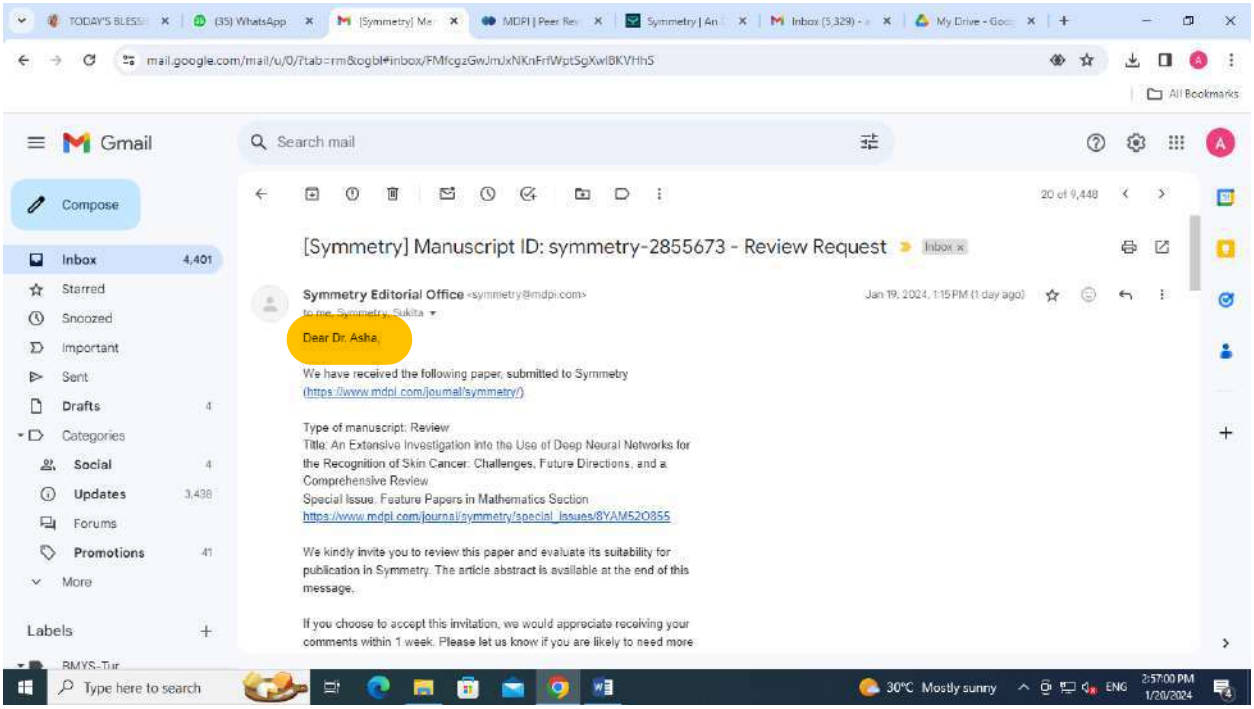




Reviewer_19 Jan 2024_Symmetry_MDPI Publisher_(ISSN 2073-8994)_IF 2.7_Scopus & WoS.

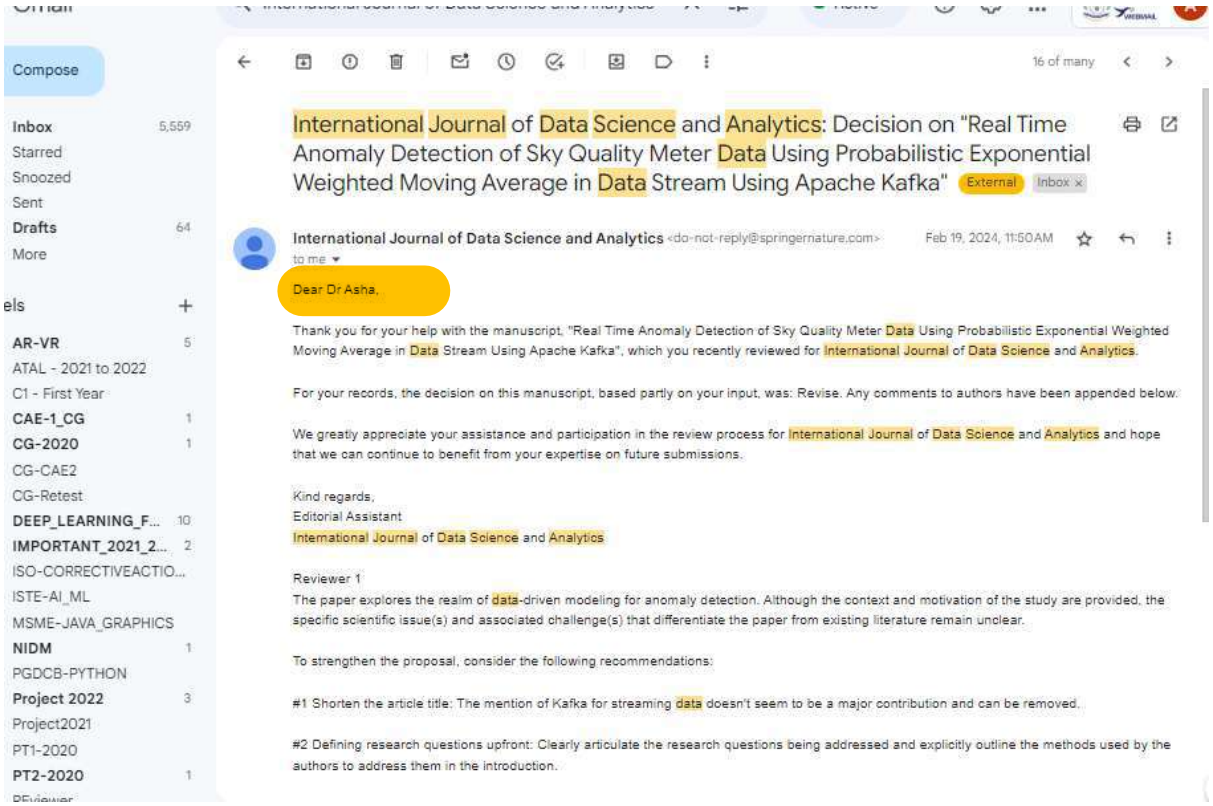
ID:symmetry-2855673
Title:An Extensive Investigation into the Use of Deep Neural Networks for the Recognition of Skin Cancer: Challenges, Future Directions, and a Comprehensive Review





Reviewer_19 Feb 2024_International Journal of Data Science and Analytics_**Impact factor:** 2.4_**Publisher:** Springer Science+Business Media_**ISSN:** 2364-415X (print); 2364-4168_Scopus & WoS.

"Real Time Anomaly Detection of Sky Quality Meter Data Using Probabilistic Exponential Weighted Moving Average in Data Stream Using Apache Kafka".



Compose

Inbox 5,559
Starred
Snoozed
Sent
Drafts 64
More

els +

AR-VR 5
ATAL - 2021 to 2022
C1 - First Year
CAE-1_CG 1
CG-2020 1
CG-CAE2
CG-Retest
DEEP_LEARNING_F... 10
IMPORTANT_2021_2... 2
ISO-CORRECTIVEACTIO...
ISTE-AI_ML
MSME-JAVA_GRAPHICS
NIDM 1
PGDCB-PYTHON
Project 2022 3
Project2021
PT1-2020
PT2-2020 1

16 of many

International Journal of Data Science and Analytics: Decision on "Real Time Anomaly Detection of Sky Quality Meter Data Using Probabilistic Exponential Weighted Moving Average in Data Stream Using Apache Kafka" External Inbox ×

International Journal of Data Science and Analytics <do-not-reply@springernature.com> Feb 19, 2024, 11:50 AM
to me

Dear Dr Asha,

Thank you for your help with the manuscript, "Real Time Anomaly Detection of Sky Quality Meter Data Using Probabilistic Exponential Weighted Moving Average in Data Stream Using Apache Kafka", which you recently reviewed for International Journal of Data Science and Analytics.

For your records, the decision on this manuscript, based partly on your input, was: Revise. Any comments to authors have been appended below.

We greatly appreciate your assistance and participation in the review process for International Journal of Data Science and Analytics and hope that we can continue to benefit from your expertise on future submissions.

Kind regards,
Editorial Assistant
International Journal of Data Science and Analytics

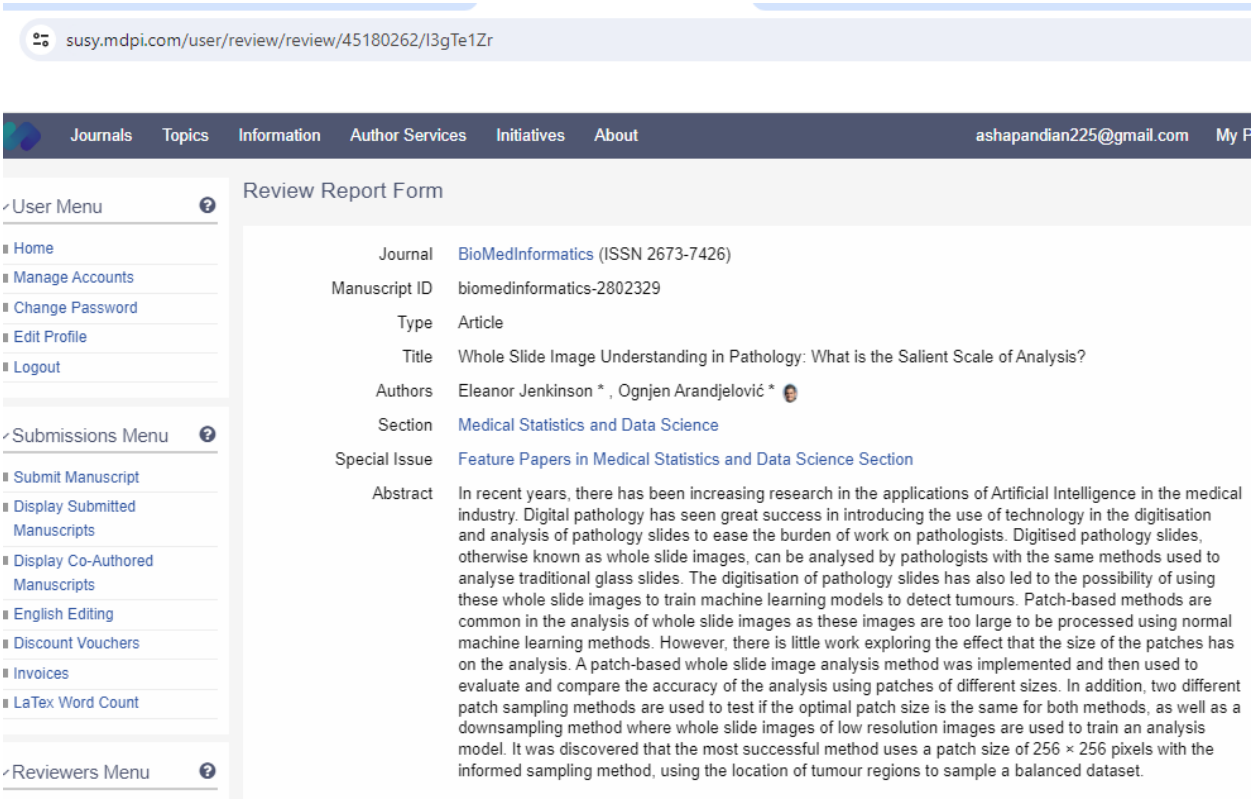
Reviewer 1
The paper explores the realm of data-driven modeling for anomaly detection. Although the context and motivation of the study are provided, the specific scientific issue(s) and associated challenge(s) that differentiate the paper from existing literature remain unclear.

To strengthen the proposal, consider the following recommendations:

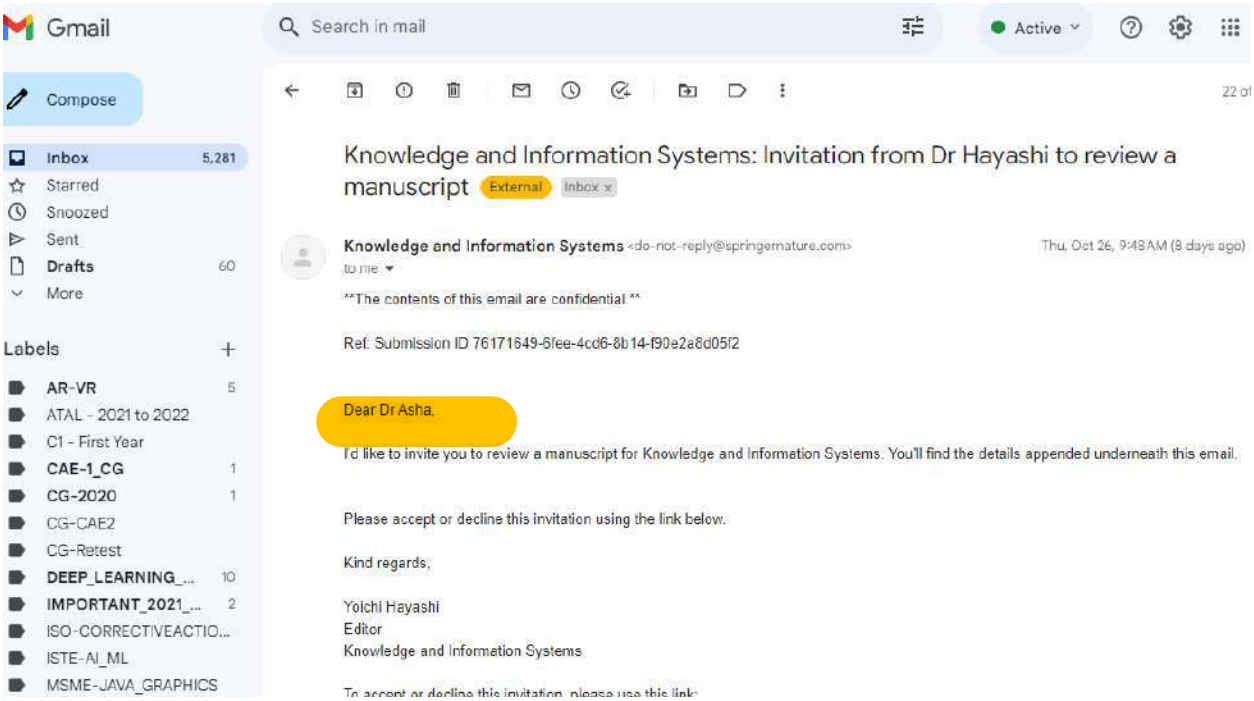
#1 Shorten the article title: The mention of Kafka for streaming data doesn't seem to be a major contribution and can be removed.

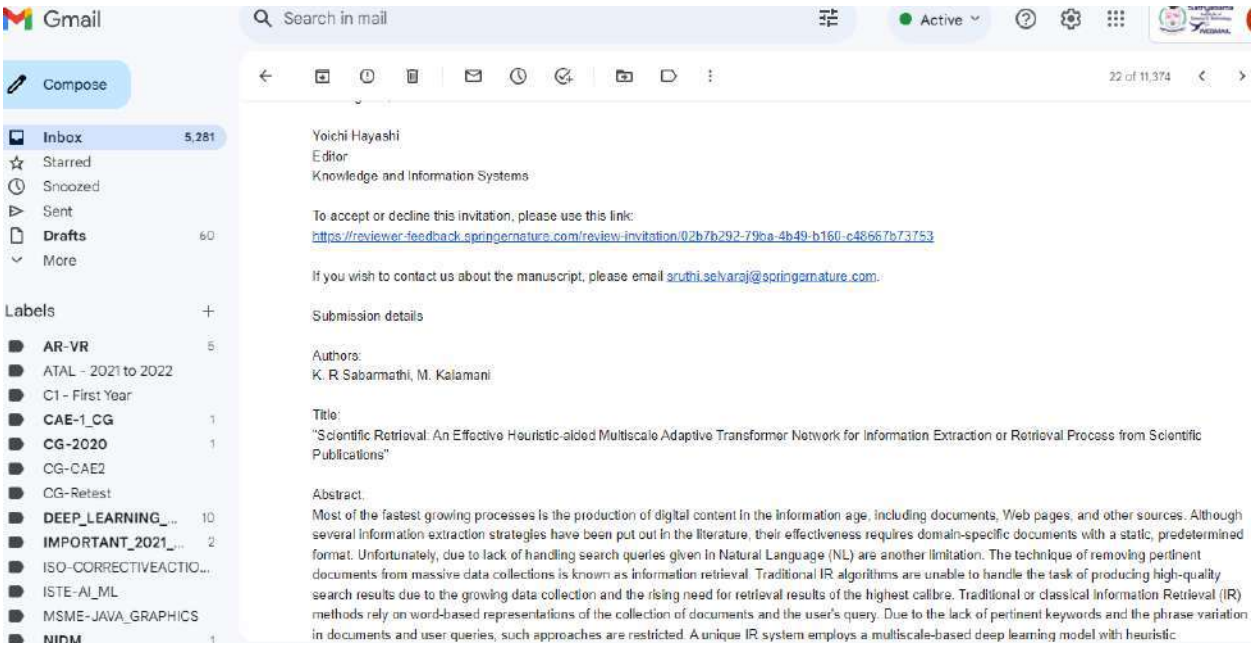
#2 Defining research questions upfront: Clearly articulate the research questions being addressed and explicitly outline the methods used by the authors to address them in the introduction.

Reviewer_11 Jan 2024_BioMedInformatics_Impact Factor 3.0_ISSN 2673-7426_Scopus & WoS
Manuscript ID: biomedinformatics-2802329
Title: Whole Slide Image Understanding in Pathology: What is the Salient Scale of Analysis?

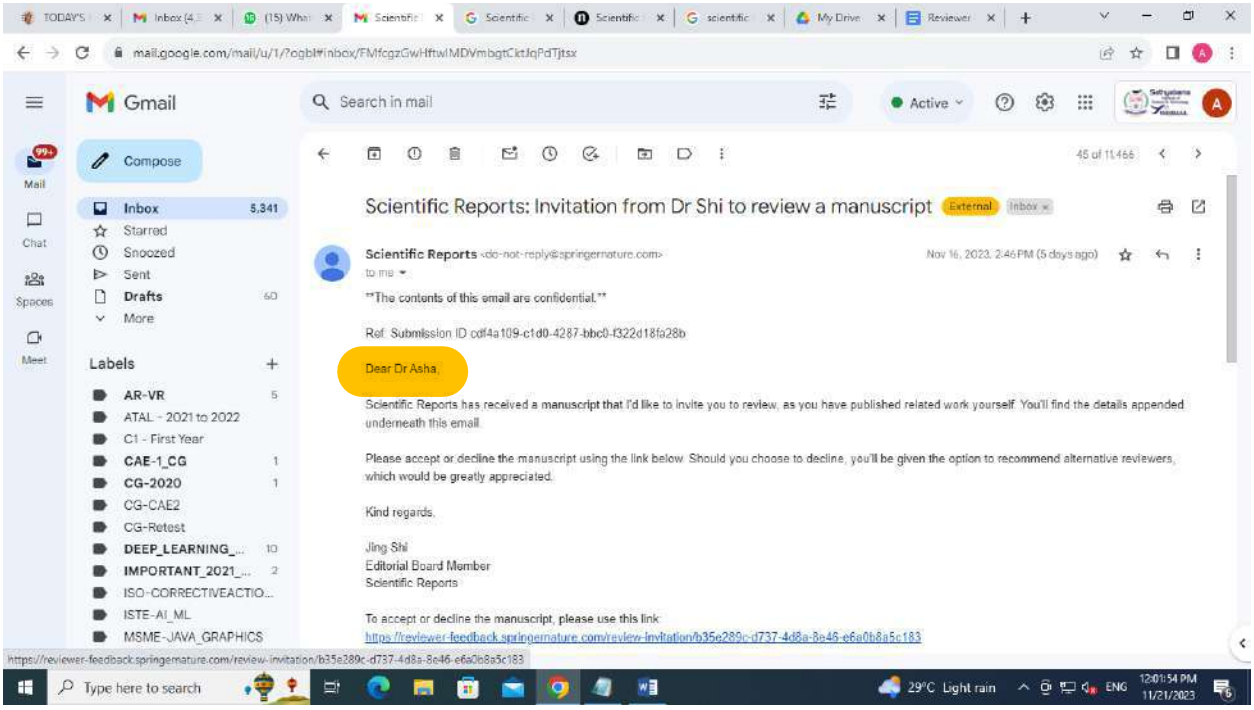


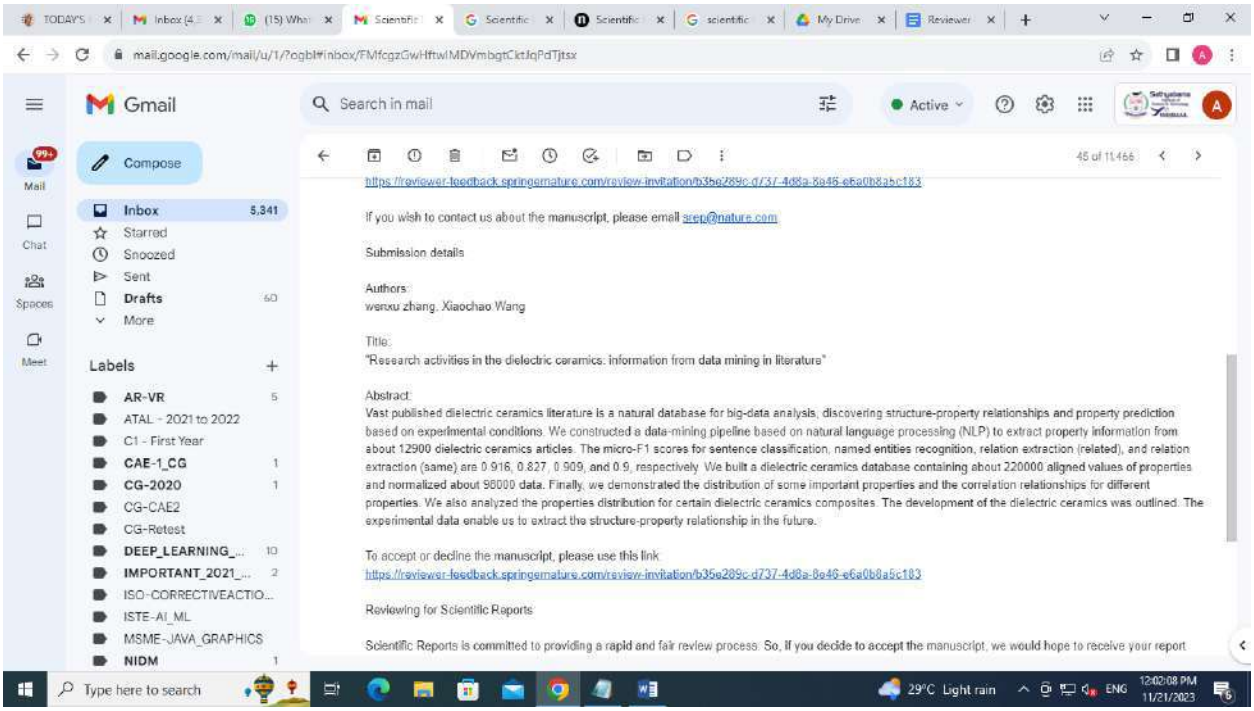
Reviewer_26 October 2023_ Knowledge and Information Systems (KAIS)_Scopus and WoS_ Impact Factor: 2.7, Springer, ISSN: 02191377, 02193116.



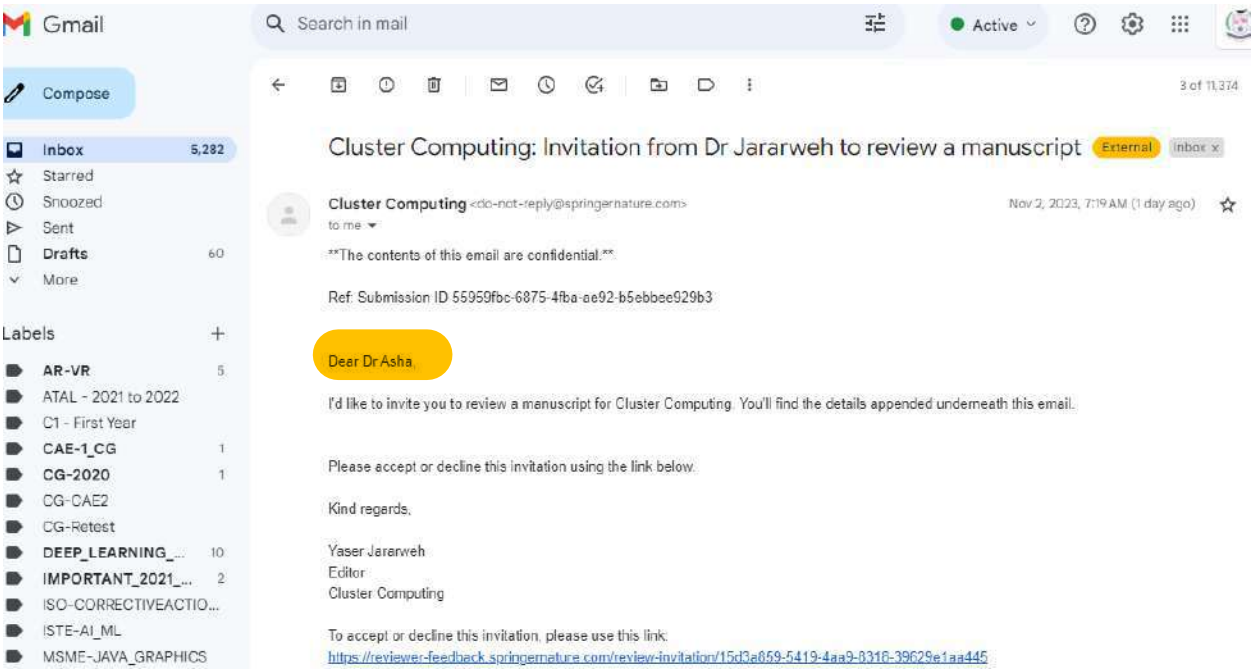


Reviewer_16 Nov 2023_Scientific Reports_Springer Nature-Nature Portfolio Publishing, ISSN: 2045-2322, Impact Factor: 4.6, Scopus & WoS.
Title:"Research activities in the dielectric ceramics: information from data mining in literature", Ref: Submission ID cdf4a109-c1d0-4287-bbc0-f322d18fa28b.





Reviewer_02 Nov 2023_Cluster Computing, ISSN: 1386-7857_Scopus & WoS_ Impact Factor: 4.4, Springer.



Yaser Jararweh
Editor
Cluster Computing

To accept or decline this invitation, please use this link:
https://reviewer-feedback.springernature.com/review-invitation/15d3a859-5419-4aa9-8318-39629e1aa445

If you wish to contact us about the manuscript, please email preethi.ravi@springernature.com.

Submission details

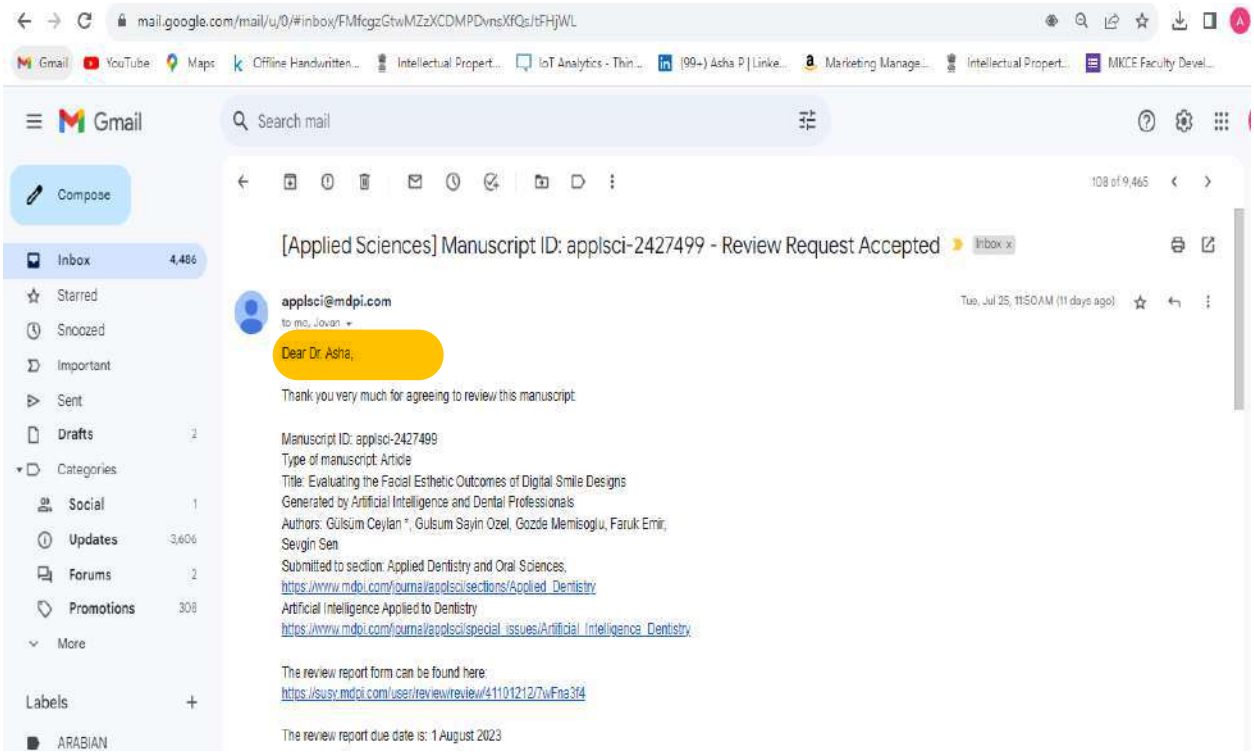
Authors:
Pengfei He

Title:
"Multi-dimensional information multimedia big data mining analysis relying on association rule mapping model"

Abstract:
The proliferation of information in the big data age offers benefits and difficulties to both corporations and researchers. This cutting-edge data mining technique, which can handle enormous and varied information from numerous channels concurrently, marks a unique achievement in the area. It can be difficult to integrate data from many sources and dimensions, especially when working with diverse data formats and structures. To address these problems, we propose a sophisticated strategy that uses the Modified Apriori algorithm in conjunction with association rule mining to identify significant patterns and correlations across several dimensions and numerous data sources. At the National Centre for Microscopy and Imaging Research (NCMIR), the data was gathered and then uploaded to the Cell Centred Database. To increase the signal quality and the system's overall performance, the collected data was pre-processed for noise reduction by using a Wiener filter. Pre-Processed data was extracted by using Principal Component Analysis (PCA). The Modified Apriori Algorithm assesses an approach's effectiveness and efficiency by examining its accuracy performance (84.4%) at the level for recall rate (10%), mining speed (5.37%), mining duration (51.4%), and acceleration ratio (16.7%).The recommended technique will probably develop and improve as technology progresses and data quantities increase

Reviewer_25 July 2023_Applied Sciences, ISSN: 2076-3417, Impact factor: 2.838 (2021), Publisher: MDPI , Scopus & WoS

Manuscript ID: applsci-2427499
Title: Evaluating the Facial Esthetic Outcomes of Digital Smile Designs Generated by Artificial Intelligence and Dental Professionals
Authors: Gülsüm Ceylan *, Gulsum Sayin Ozel, Gozde Memisoglu, Faruk Emir, Sevgin Sen

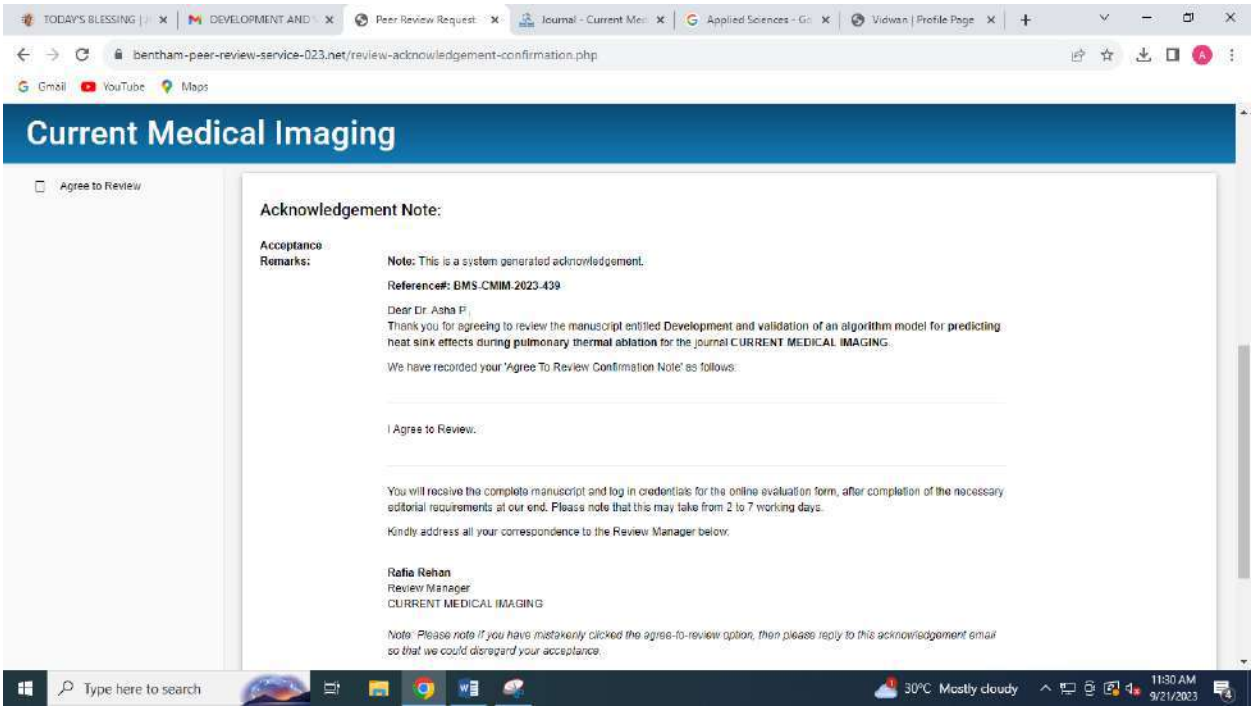


Reviewer_16 Sep 2023_**CURRENT MEDICAL IMAGING_**ISSN (Online): 1875-6603, IF 1.4, Scopus and WoS

Reference#: BMS-CMIM-2023-439

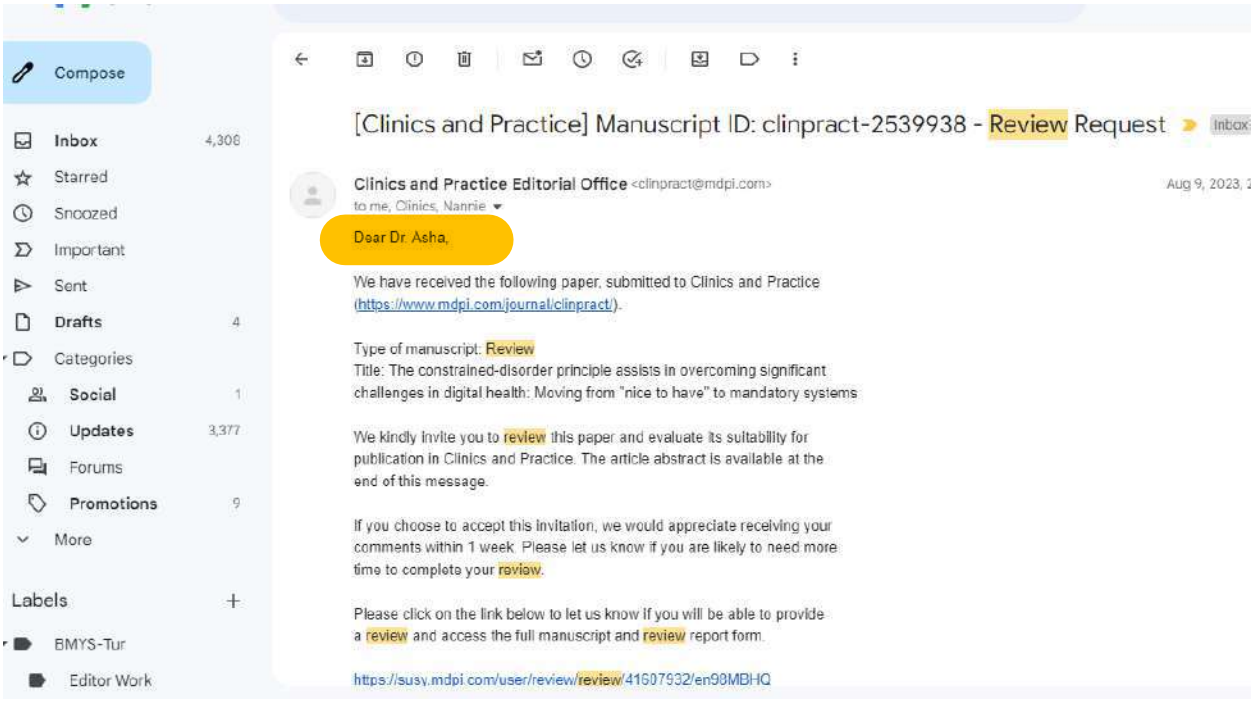
Dear Dr. Asha P.,

Thank you for agreeing to review the manuscript entitled **Development and validation of an algorithm model for predicting heat sink effects during pulmonary thermal ablation** for the journal **CURRENT MEDICAL IMAGING**.



Reviewer_9 Aug 2023_Clinics and Practice_MDPI Publisher_ **Impact Factor:** 2.3, **ISSN: 2039-7283, Scopus & WoS.**

Title: The constrained-disorder principle assists in overcoming significant challenges in digital health: Moving from "nice to have" to mandatory systems.



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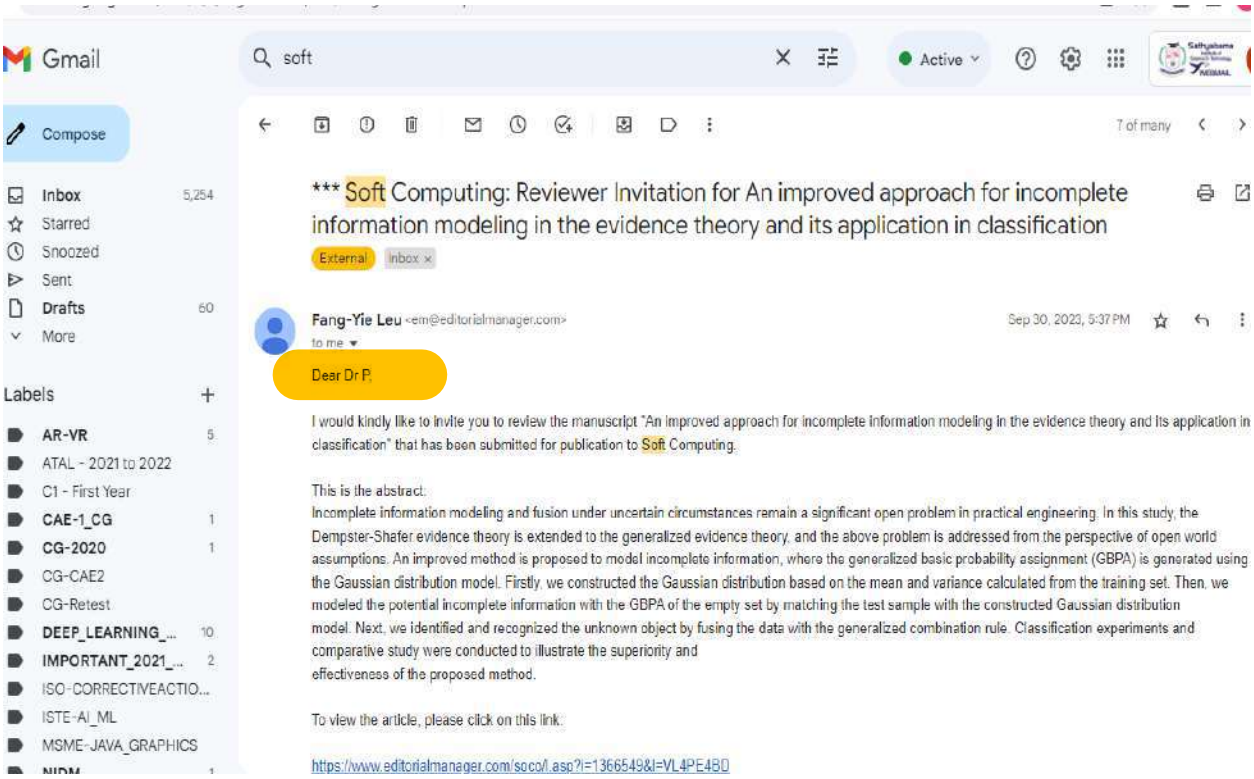
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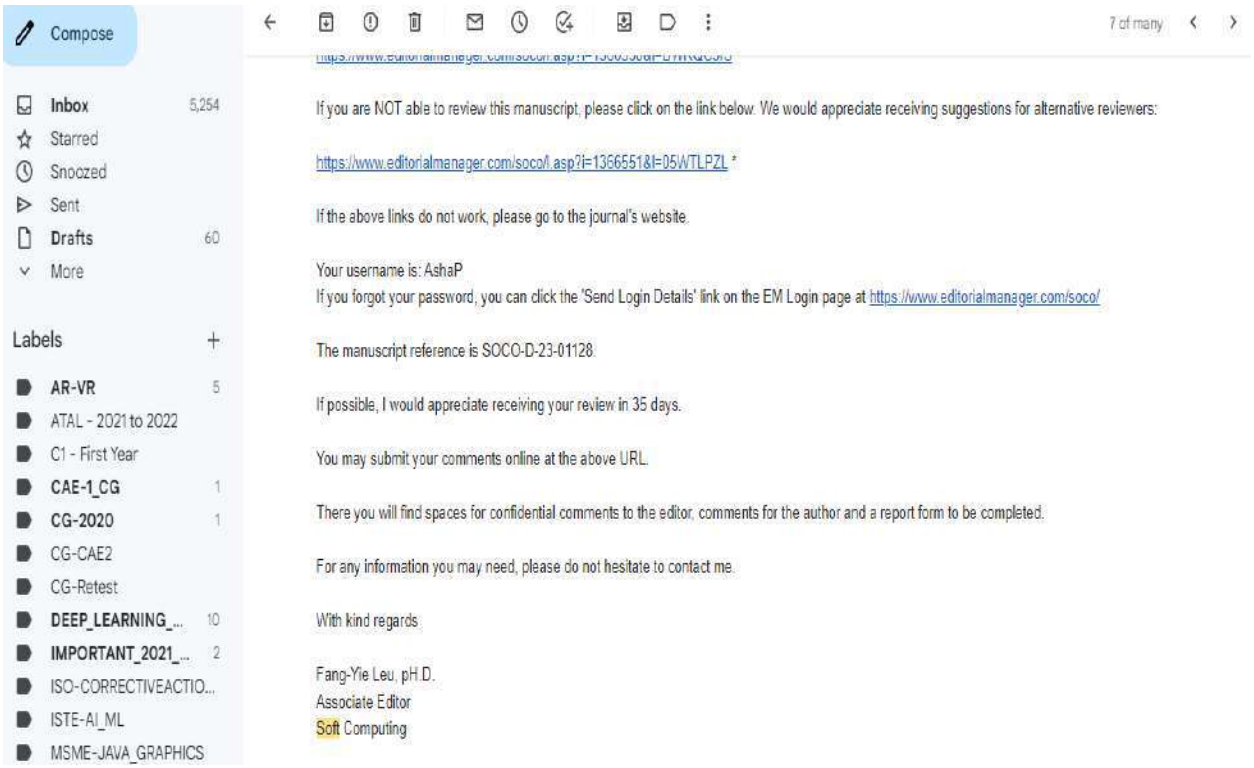
Clinics and Practice is an open access journal of MDPI. Thank you very much for your consideration and we look forward to hearing from you.

Kind regards,
Ms. Nannie Meng
Section Managing Editor
E-Mail: nannie.meng@mdpi.com

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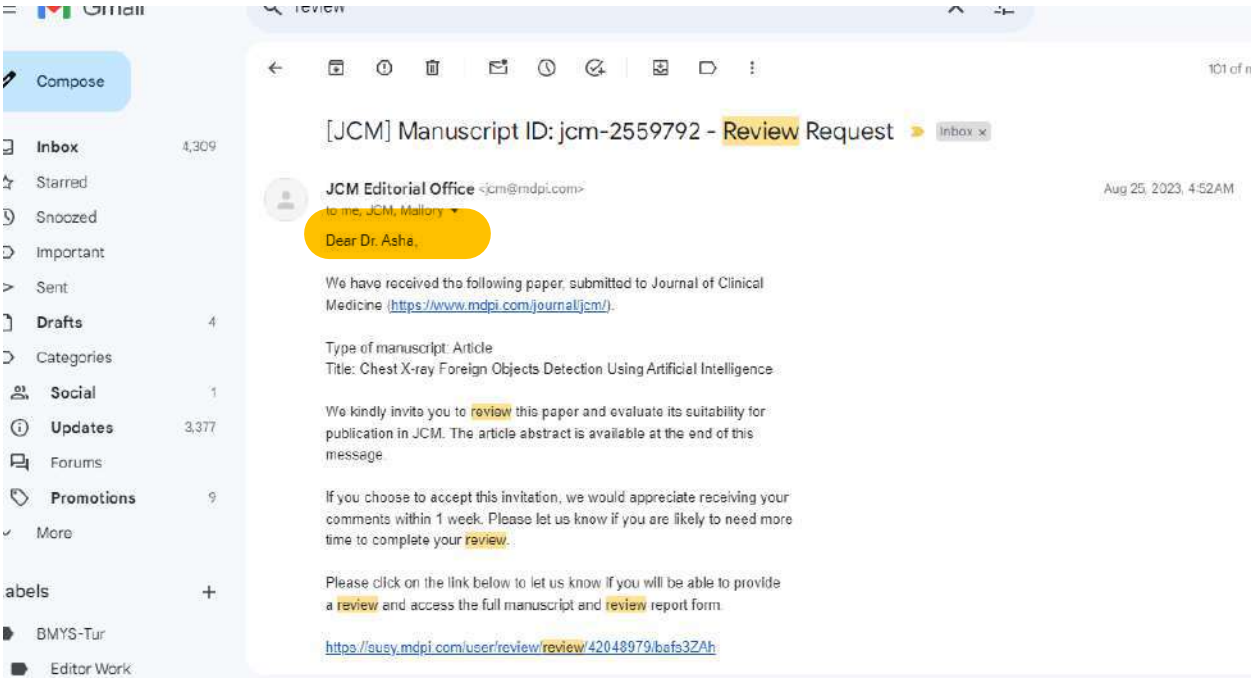
Reviewer_30 Sep 2023_Soft Computing, ISSN: 14327643, 14337479, Scopus and WoS, Impact Factor: 4.1, Springer.





Reviewer_25 Aug 2023_ *Journal of Clinical Medicine,* **Impact Factor:** 3.9, MDPI Publisher, **ISSN: 2077-0383, Scopus & WoS.**

Title: Chest X-ray Foreign Objects Detection Using Artificial Intelligence.



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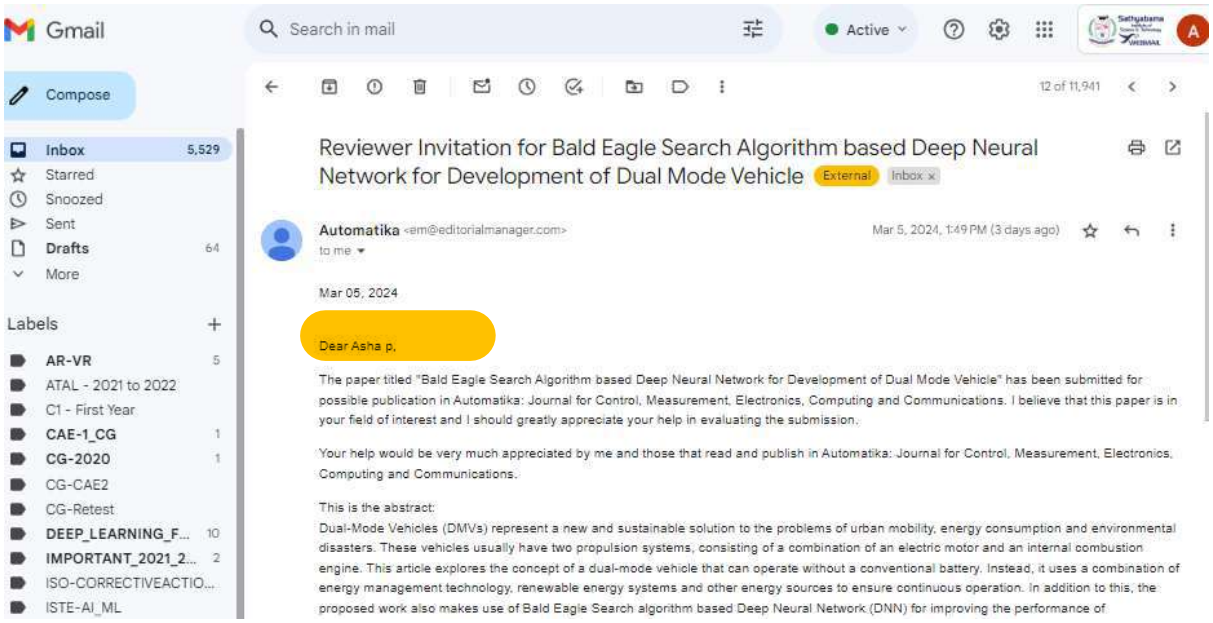
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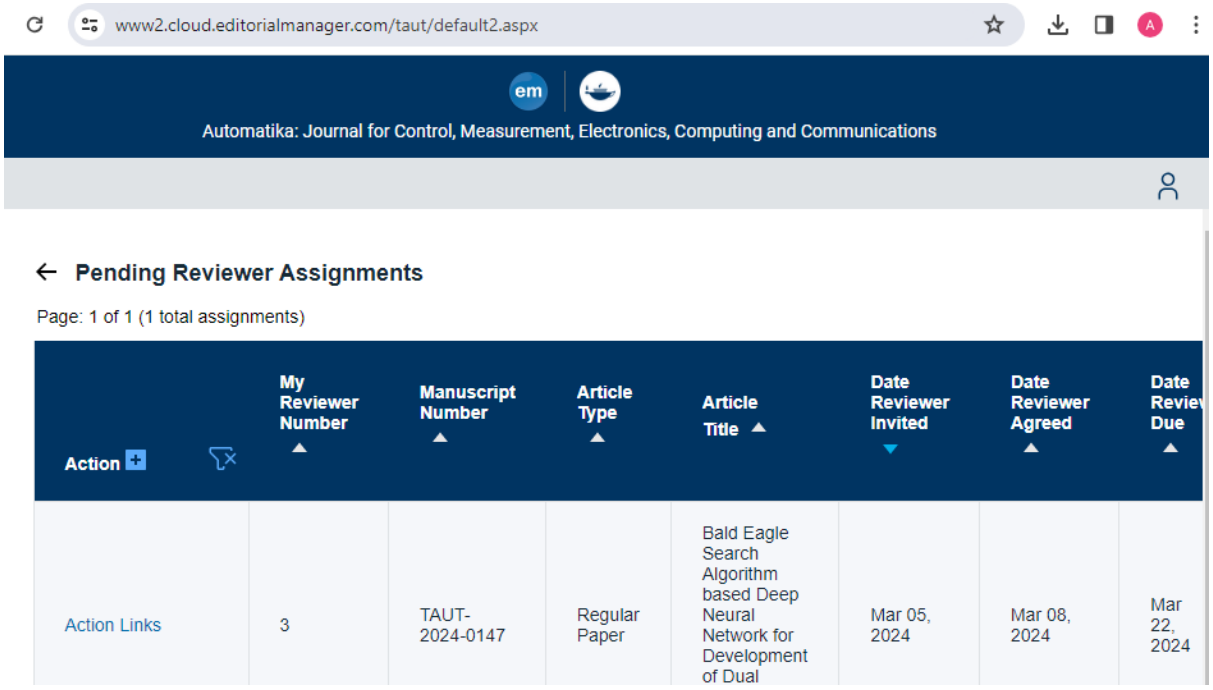
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Ms. Mallory Li
Special Issue Editor
E-Mail: mallory.li@mdpi.com

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Reviewer_ 5 March 2024_ Automatika: Journal for Control, Measurement, Electronics, Computing and Communications_"Bald Eagle Search Algorithm based Deep Neural Network for Development of Dual Mode Vehicle", Scopus & WoS_1848-3380_Taylor & Francis.





South Asian Journal of Social Studies and Economics

(Indexing: Ebsco, Proquest, Index Copernicus, Google Scholar)

2023

Certificate No: SDI/HQ/PR/Cert/97830/DRP

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Asian Journal of Research in Infectious Diseases

(Indexing: Ebsco, Proquest, Index Copernicus, Google Scholar)

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International Journal of Environment and Climate Change

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Conference Chair, NMITCON-2023
Professor, Dept. of ECE
NMIT, Bangaluru

Dr. Ramachandra A C
General Chair, NMITCON-2023
Professor and Head, Dept. of ECE
NMIT, Bangaluru

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to me

Dear Mrs M

Thank you for your review of the manuscript SUPE-D-21-00694 for The Journal of Supercomputing.

We greatly appreciate your assistance.

Best regards,
Springer Journals Editorial Office
The Journal of Supercomputing

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ICCINS 2023

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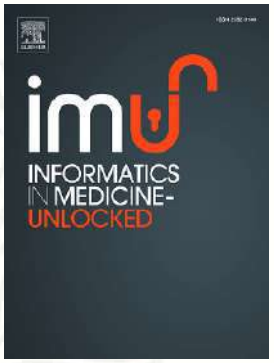
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Gmail SANTHIYA P <santhiya.cse@sathyabama.ac.in>

Thank you for submitting your review of Manuscript ID TCE-2024-01-0353.R1 for the Transactions on Consumer Electronics

Transactions on Consumer Electronics <onbehalfof@manuscriptcentral.com> Thu, 13 Jun at 6:58 PM
Reply to: <gdhiman0001@gmail.com>
To: <santhiya.cse@sathyabama.ac.in>

13-Jun-2024

Dear Mrs. P:

Thank you for reviewing manuscript # TCE-2024-01-0353.R1 entitled "Design and Implement a Quantum Blockchain Framework to Secure 6G Communication for Consumer Applications" for the Transactions on Consumer Electronics.

On behalf of the Editors of the Transactions on Consumer Electronics, we appreciate the voluntary contribution that each reviewer gives to the Journal. We thank you for your participation in the online review process and hope that we may call upon you again to review future manuscripts.

Sincerely,
Dr. Gaurav Dhiman
Transactions on Consumer Electronics Guest Editor
gdhiman0001@gmail.com

Ref No.:99/FSPCC/BC001/09/2023

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MINISTRY OF
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सत्यमेव जयते

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Under "Futureskills PRIME" Programme

7th August 2023 to 9th September 2023

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Chief Investigator
Cloud Computing Technology
Lead Resource Centre

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Senior Director
Centre Head
C-DAC, Chennai

Ref No.:72/FSPCC/BC009/09/2023

इलेक्ट्रॉनिकी एवं
सूचना प्रौद्योगिकी मंत्रालय
MINISTRY OF
ELECTRONICS AND INFORMATION TECHNOLOGY

सत्यमेव जयते

रा.इ.सू.प्रौ.सं
NIELIT

COURSE COMPLETION LETTER

It is certified that

Rithin Vishwas

Sathyabama Institute of Science and Technology

has successfully undergone the Bridge Course Training Program on

Cloud Computing Technology

Under "Futureskills PRIME" Programme

7th August 2023 to 9th September 2023

L R PRAKASH
Digitally signed by L R PRAKASH
Date: 2023.09.29 14:36:26 +05'30'

Shri. V. Sridharan
Chief Investigator
Cloud Computing Technology
Lead Resource Centre

Cdr.(Retd.) L.R. Prakash
Senior Director
Centre Head
C-DAC, Chennai

Ref No.:74/FSPCC/BC009/09/2023

इलेक्ट्रॉनिकी एवं
सूचना प्रौद्योगिकी मंत्रालय
MINISTRY OF
ELECTRONICS AND INFORMATION TECHNOLOGY

सत्यमेव जयते

रा.इ.सू.प्रौ.सं
NIELIT

COURSE COMPLETION LETTER

It is certified that

Rohith R

Sathyabama Institute of Science and Technology

has successfully undergone the Bridge Course Training Program on

Cloud Computing Technology

Under "Futureskills PRIME" Programme

7th August 2023 to 9th September 2023

Shri. V. Sridharan
Chief Investigator
Cloud Computing Technology
Lead Resource Centre

L R PRAKASH
Digitally signed by L R PRAKASH
Date: 2023.09.29 14:36:01 +05'30'

Cdr.(Retd.) L.R. Prakash
Senior Director
Centre Head
C-DAC, Chennai

Ref No.:71/FSPCC/BC009/09/2023

इलेक्ट्रॉनिकी एवं
सूचना प्रौद्योगिकी मंत्रालय
MINISTRY OF
ELECTRONICS AND INFORMATION TECHNOLOGY

सत्यमेव जयते

COURSE COMPLETION LETTER

It is certified that

Rishi S S

Sathyabama Institute of Science and Technology

has successfully undergone the Bridge Course Training Program on

Cloud Computing Technology

Under "Futureskills PRIME" Programme

7th August 2023 to 9th September 2023

Shri. V. Sridharan
Chief Investigator
Cloud Computing Technology
Lead Resource Centre

L R PRAKASH
Digitally signed by L R PRAKASH
Date: 2023.09.29 14:36:46 +05'30'

Cdr.(Retd.) L.R. Prakash
Senior Director
Centre Head
C-DAC, Chennai

Ref No.:73/FSPCC/BC009/09/2023

इलेक्ट्रॉनिकी एवं
सूचना प्रौद्योगिकी मंत्रालय
MINISTRY OF
ELECTRONICS AND INFORMATION TECHNOLOGY

सत्यमेव जयते

रा.इ.सू.प्रौ.सं
NIELIT

COURSE COMPLETION LETTER

It is certified that

Riya Jermy Thilagan

Sathyabama Institute of Science and Technology

has successfully undergone the Bridge Course Training Program on

Cloud Computing Technology

Under "Futureskills PRIME" Programme

7th August 2023 to 9th September 2023

Shri. V. Sridharan
Chief Investigator
Cloud Computing Technology
Lead Resource Centre

L R PRAKASH
Digitally signed by L R PRAKASH
Date: 2023.09.29 15:10:20 +05'30'

Cdr.(Retd.) L.R. Prakash
Senior Director
Centre Head
C-DAC, Chennai

Ref No.:06/FSPCC/BC009/09/2023

इलेक्ट्रॉनिकी एवं
सूचना प्रौद्योगिकी मंत्रालय
MINISTRY OF
ELECTRONICS AND INFORMATION TECHNOLOGY

सत्यमेव जयते

COURSE COMPLETION LETTER

It is certified that

Ankushkumar Bharti S

Sathyabama Institute of Science and Technology

has successfully undergone the Bridge Course Training Program on

Cloud Computing Technology

Under "Futureskills PRIME" Programme

7th August 2023 to 9th September 2023

Shri. V. Sridharan
Chief Investigator
Cloud Computing Technology
Lead Resource Centre

L R PRAKASH
Digitally signed by L R PRAKASH
Date: 2023.09.29 13:46:06 +05'30'

Cdr.(Retd.) L.R. Prakash
Senior Director
Centre Head
C-DAC, Chennai

Ref No.:28/FSPCC/BC009/09/2023

इलेक्ट्रॉनिकी एवं
सूचना प्रौद्योगिकी मंत्रालय
MINISTRY OF
ELECTRONICS AND INFORMATION TECHNOLOGY

सत्यमेव जयते

COURSE COMPLETION LETTER

It is certified that

Giftlin Jensina

Sathyabama Institute of Science and Technology

has successfully undergone the Bridge Course Training Program on

Cloud Computing Technology

Under "Futureskills PRIME" Programme

7th August 2023 to 9th September 2023

Shri. V. Sridharan
Chief Investigator
Cloud Computing Technology
Lead Resource Centre

L R PRAKASH
Digitally signed by L R PRAKASH
Date: 2023.09.29 14:06:52 +05'30'

Cdr.(Retd.) L.R. Prakash
Senior Director
Centre Head
C-DAC, Chennai

Ref No.:88/FSPCC/BC009/09/2023

इलेक्ट्रॉनिकी एवं
सूचना प्रौद्योगिकी मंत्रालय
MINISTRY OF
ELECTRONICS AND INFORMATION TECHNOLOGY

सत्यमेव जयते

COURSE COMPLETION LETTER

It is certified that

Tejaswini Vankayalapati

Sathyabama Institute of Science and Technology

has successfully undergone the Bridge Course Training Program on

Cloud Computing Technology

Under "Futureskills PRIME" Programme

7th August 2023 to 9th September 2023

Shri. V. Sridharan
Chief Investigator
Cloud Computing Technology
Lead Resource Centre

L R PRAKASH
Digitally signed by L R PRAKASH
Date: 2023.09.29 14:45:30 +05'30'

Cdr.(Retd.) L.R. Prakash
Senior Director
Centre Head
C-DAC, Chennai

Ref No.:17/FSPCC/BC009/09/2023

इलेक्ट्रॉनिकी एवं
सूचना प्रौद्योगिकी मंत्रालय
MINISTRY OF
ELECTRONICS AND INFORMATION TECHNOLOGY

सत्यमेव जयते

COURSE COMPLETION LETTER

It is certified that

Bhavana Pamidi

Sathyabama Institute of Science and Technology

has successfully undergone the Bridge Course Training Program on

Cloud Computing Technology

Under "Futureskills PRIME" Programme

7th August 2023 to 9th September 2023

L R PRAKASH
Digitally signed by L R PRAKASH
Date: 2023.09.29 13:54:01 +05'30'

Shri. V. Sridharan
Chief Investigator
Cloud Computing Technology
Lead Resource Centre

Cdr.(Retd.) L.R. Prakash
Senior Director
Centre Head
C-DAC, Chennai

Ref No.:87/FSPCC/BC009/09/2023

इलेक्ट्रॉनिकी एवं
सूचना प्रौद्योगिकी मंत्रालय
MINISTRY OF
**ELECTRONICS AND
INFORMATION TECHNOLOGY**

सत्यमेव जयते

रा.इ.सू.प्रौ.सं
NIELIT

COURSE COMPLETION LETTER

It is certified that

Tammana Dhatrisri

Sathyabama Institute of Science and Technology

has successfully undergone the Bridge Course Training Program on

Cloud Computing Technology

Under "Futureskills PRIME" Programme

7th August 2023 to 9th September 2023

L R PRAKASH
Digitally signed by L R PRAKASH
Date: 2023.09.29 14:44:27 +05'30'

Shri. V. Sridharan
Chief Investigator
Cloud Computing Technology
Lead Resource Centre

Cdr.(Retd.) L.R. Prakash
Senior Director
Centre Head
C-DAC, Chennai

Ref No.:15/FSPCC/BC009/09/2023

इलेक्ट्रॉनिकी एवं
सूचना प्रौद्योगिकी मंत्रालय
MINISTRY OF
ELECTRONICS AND INFORMATION TECHNOLOGY

सत्यमेव जयते

COURSE COMPLETION LETTER

It is certified that

Battala Venkata Jithendra Yadav

Sathyabama Institute of Science and Technology

has successfully undergone the Bridge Course Training Program on

Cloud Computing Technology

Under "Futureskills PRIME" Programme

7th August 2023 to 9th September 2023

L R PRAKASH
Digitally signed by L R PRAKASH
Date: 2023.09.29 13:52:29 +05'30'

Shri. V. Sridharan
Chief Investigator
Cloud Computing Technology
Lead Resource Centre

Cdr.(Retd.) L.R. Prakash
Senior Director
Centre Head
C-DAC, Chennai

Ref No.:95/FSPCC/BC001/09/2023

इलेक्ट्रॉनिकी एवं
सूचना प्रौद्योगिकी मंत्रालय
MINISTRY OF
ELECTRONICS AND INFORMATION TECHNOLOGY

सत्यमेव जयते

रा.इ.सू.प्रौ.सं
NIELIT

COURSE COMPLETION LETTER

It is certified that

Aditya Kumar Singh

Sathyabama Institute of Science and Technology

has successfully undergone the Bridge Course Training Program on

Cloud Computing Technology

Under "Futureskills PRIME" Programme

7th August 2023 to 9th September 2023

Shri. V. Sridharan
Chief Investigator
Cloud Computing Technology
Lead Resource Centre

L R PRAKASH
Digitally signed by L R PRAKASH
Date: 2023.09.29 17:34:13 +05'30'

Cdr.(Retd.) L.R. Prakash
Senior Director
Centre Head
C-DAC, Chennai

Ref No.:33/FSPCC/BC009/09/2023

इलेक्ट्रॉनिकी एवं
सूचना प्रौद्योगिकी मंत्रालय
MINISTRY OF
ELECTRONICS AND INFORMATION TECHNOLOGY

सत्यमेव जयते

रा.इ.सू.प्रौ.सं
NIELIT

COURSE COMPLETION LETTER

It is certified that

Kalicheti Bhavadeep Reddy

Sathyabama Institute of Science and Technology

has successfully undergone the Bridge Course Training Program on

Cloud Computing Technology

Under "Futureskills PRIME" Programme

7th August 2023 to 9th September 2023

Shri. V. Sridharan
Chief Investigator
Cloud Computing Technology
Lead Resource Centre

L R PRAKASH
Digitally signed by L R PRAKASH
Date: 2023.09.29 14:11:22 +05'30'

Cdr.(Retd.) L.R. Prakash
Senior Director
Centre Head
C-DAC, Chennai

Ref No.:80/FSPCC/BC009/09/2023

इलेक्ट्रॉनिकी एवं
सूचना प्रौद्योगिकी मंत्रालय
MINISTRY OF
ELECTRONICS AND INFORMATION TECHNOLOGY

सत्यमेव जयते

रा.इ.सू.प्रौ.सं
NIELIT

COURSE COMPLETION LETTER

It is certified that

Shresth Raj

Sathyabama Institute of Science and Technology

has successfully undergone the Bridge Course Training Program on

Cloud Computing Technology

Under "Futureskills PRIME" Programme

7th August 2023 to 9th September 2023

L R PRAKASH Digitally signed by L R PRAKASH
Date: 2023.09.29 14:39:50 +05'30'

Shri. V. Sridharan
Chief Investigator
Cloud Computing Technology
Lead Resource Centre

Cdr.(Retd.) L.R. Prakash
Senior Director
Centre Head
C-DAC, Chennai

Ref No.:29/FSPCC/BC009/09/2023

इलेक्ट्रॉनिकी एवं
सूचना प्रौद्योगिकी मंत्रालय
MINISTRY OF
ELECTRONICS AND INFORMATION TECHNOLOGY

सत्यमेव जयते

रा.इ.सू.प्रौ.सं
NIELIT

COURSE COMPLETION LETTER

It is certified that

Gireesh Patrudu Banka

Sathyabama Institute of Science and Technology

has successfully undergone the Bridge Course Training Program on

Cloud Computing Technology

Under "Futureskills PRIME" Programme

7th August 2023 to 9th September 2023

Shri. V. Sridharan
Chief Investigator
Cloud Computing Technology
Lead Resource Centre

L R PRAKASH
Digitally signed by L R PRAKASH
Date: 2023.09.29 14:07:47 +05'30'

Cdr.(Retd.) L.R. Prakash
Senior Director
Centre Head
C-DAC, Chennai

Ref No.:98/FSPCC/BC001/09/2023

इलेक्ट्रॉनिकी एवं
सूचना प्रौद्योगिकी मंत्रालय
MINISTRY OF
ELECTRONICS AND INFORMATION TECHNOLOGY

सत्यमेव जयते

COURSE COMPLETION LETTER

It is certified that

Janarth B

Sathyabama Institute of Science and Technology

has successfully undergone the Bridge Course Training Program on

Cloud Computing Technology

Under "Futureskills PRIME" Programme

7th August 2023 to 9th September 2023

Shri. V. Sridharan
Chief Investigator
Cloud Computing Technology
Lead Resource Centre

L R PRAKASH
Digitally signed by L R PRAKASH
Date: 2023.09.29 17:39:33 +05'30'

Cdr.(Retd.) L.R. Prakash
Senior Director
Centre Head
C-DAC, Chennai

Ref No.:45/FSPCC/BC009/09/2023

इलेक्ट्रॉनिकी एवं
सूचना प्रौद्योगिकी मंत्रालय
MINISTRY OF
ELECTRONICS AND INFORMATION TECHNOLOGY

सत्यमेव जयते

रा.इ.सू.प्रौ.सं
NIELIT

COURSE COMPLETION LETTER

It is certified that

Mallu Lokesh Reddy

Sathyabama Institute of Science and Technology

has successfully undergone the Bridge Course Training Program on

Cloud Computing Technology

Under "Futureskills PRIME" Programme

7th August 2023 to 9th September 2023

Shri. V. Sridharan
Chief Investigator
Cloud Computing Technology
Lead Resource Centre

L R PRAKASH
Digitally signed by L R PRAKASH
Date: 2023.09.29 14:22:57 +05'30'

Cdr.(Retd.) L.R. Prakash
Senior Director
Centre Head
C-DAC, Chennai

Ref No.:86/FSPCC/BC009/09/2023

इलेक्ट्रॉनिकी एवं
सूचना प्रौद्योगिकी मंत्रालय
MINISTRY OF
ELECTRONICS AND INFORMATION TECHNOLOGY

सत्यमेव जयते

रा.इ.सू.प्रौ.सं
NIELIT

COURSE COMPLETION LETTER

It is certified that

Swega K

Sathyabama Institute of Science and Technology

has successfully undergone the Bridge Course Training Program on

Cloud Computing Technology

Under "Futureskills PRIME" Programme

7th August 2023 to 9th September 2023

L R PRAKASH

Digitally signed by L R PRAKASH
Date: 2023.09.29 14:43:55 +05'30'

Shri. V. Sridharan
Chief Investigator
Cloud Computing Technology
Lead Resource Centre

Cdr.(Retd.) L.R. Prakash
Senior Director
Centre Head
C-DAC, Chennai

Ref No.:18/FSPCC/BC009/09/2023

इलेक्ट्रॉनिकी एवं
सूचना प्रौद्योगिकी मंत्रालय
MINISTRY OF
ELECTRONICS AND INFORMATION TECHNOLOGY

सत्यमेव जयते

COURSE COMPLETION LETTER

It is certified that

Bhumireddy Anusha

Sathyabama Institute of Science and Technology

has successfully undergone the Bridge Course Training Program on

Cloud Computing Technology

Under "Futureskills PRIME" Programme

7th August 2023 to 9th September 2023

L R PRAKASH
Digitally signed by L R PRAKASH
Date: 2023.09.29 13:54:45 +05'30'

Shri. V. Sridharan
Chief Investigator
Cloud Computing Technology
Lead Resource Centre

Cdr.(Retd.) L.R. Prakash
Senior Director
Centre Head
C-DAC, Chennai

Ref No.:10/FSPCC/BC009/09/2023

इलेक्ट्रॉनिकी एवं
सूचना प्रौद्योगिकी मंत्रालय
MINISTRY OF
ELECTRONICS AND
INFORMATION TECHNOLOGY

सत्यमेव जयते

रा.इ.सू.प्रौ.सं
NIELIT

COURSE COMPLETION LETTER

It is certified that

Atluri Santhoshitha

Sathyabama Institute of Science and Technology

has successfully undergone the Bridge Course Training Program on

Cloud Computing Technology

Under "Futureskills PRIME" Programme

7th August 2023 to 9th September 2023

L R PRAKASH

Digitally signed by L R PRAKASH
Date: 2023.09.29 13:48:38 +05'30'

Shri. V. Sridharan
Chief Investigator
Cloud Computing Technology
Lead Resource Centre

Cdr.(Retd.) L.R. Prakash
Senior Director
Centre Head
C-DAC, Chennai

Ref No.:04/FSPCC/BC009/09/2023

इलेक्ट्रॉनिकी एवं
सूचना प्रौद्योगिकी मंत्रालय
MINISTRY OF
ELECTRONICS AND INFORMATION TECHNOLOGY

सत्यमेव जयते

रा.इ.सू.प्रौ.सं
NIELIT

COURSE COMPLETION LETTER

It is certified that

Amizhtha Augustin

Sathyabama Institute of Science and Technology

has successfully undergone the Bridge Course Training Program on

Cloud Computing Technology

Under "Futureskills PRIME" Programme

7th August 2023 to 9th September 2023

Shri. V. Sridharan
Chief Investigator
Cloud Computing Technology
Lead Resource Centre

L R PRAKASH
Digitally signed by L R PRAKASH
Date: 2023.09.29 13:44:57 +05'30'

Cdr.(Retd.) L.R. Prakash
Senior Director
Centre Head
C-DAC, Chennai

Ref No.:35/FSPCC/BC009/09/2023

इलेक्ट्रॉनिकी एवं
सूचना प्रौद्योगिकी मंत्रालय
MINISTRY OF
ELECTRONICS AND INFORMATION TECHNOLOGY

सत्यमेव जयते

COURSE COMPLETION LETTER

It is certified that

Kartik K

Sathyabama Institute of Science and Technology

has successfully undergone the Bridge Course Training Program on

Cloud Computing Technology

Under "Futureskills PRIME" Programme

7th August 2023 to 9th September 2023

Shri. V. Sridharan
Chief Investigator
Cloud Computing Technology
Lead Resource Centre

L R PRAKASH
Digitally signed by L R PRAKASH
Date: 2023.09.29 14:14:43 +05'30'

Cdr.(Retd.) L.R. Prakash
Senior Director
Centre Head
C-DAC, Chennai

Ref No.:76/FSPCC/BC009/09/2023

इलेक्ट्रॉनिकी एवं
सूचना प्रौद्योगिकी मंत्रालय
MINISTRY OF
ELECTRONICS AND INFORMATION TECHNOLOGY

सत्यमेव जयते

रा.इ.सू.प्रौ.सं
NIELIT

COURSE COMPLETION LETTER

It is certified that

Sai Krishna Gunnam

Sathyabama Institute of Science and Technology

has successfully undergone the Bridge Course Training Program on

Cloud Computing Technology

Under "Futureskills PRIME" Programme

7th August 2023 to 9th September 2023

Shri. V. Sridharan
Chief Investigator
Cloud Computing Technology
Lead Resource Centre

L R PRAKASH
Digitally signed by L R PRAKASH
Date: 2023.09.29 14:35:38 +05'30'

Cdr.(Retd.) L.R. Prakash
Senior Director
Centre Head
C-DAC, Chennai

Ref No.:82/FSPCC/BC009/09/2023

इलेक्ट्रॉनिकी एवं
सूचना प्रौद्योगिकी मंत्रालय
MINISTRY OF
ELECTRONICS AND INFORMATION TECHNOLOGY

सत्यमेव जयते

रा.इ.सू.प्रौ.सं
NIELIT

COURSE COMPLETION LETTER

It is certified that

Sowmiya Ramakrishnan

Sathyabama Institute of Science and Technology

has successfully undergone the Bridge Course Training Program on

Cloud Computing Technology

Under "Futureskills PRIME" Programme

7th August 2023 to 9th September 2023

L R PRAKASH Digitally signed by L R PRAKASH
Date: 2023.09.29 14:41:07 +05'30'

Shri. V. Sridharan
Chief Investigator
Cloud Computing Technology
Lead Resource Centre

Cdr.(Retd.) L.R. Prakash
Senior Director
Centre Head
C-DAC, Chennai

Ref No.:47/FSPCC/BC009/09/2023

इलेक्ट्रॉनिकी एवं
सूचना प्रौद्योगिकी मंत्रालय
MINISTRY OF
ELECTRONICS AND INFORMATION TECHNOLOGY

सत्यमेव जयते

रा.इ.सू.प्रौ.सं
NIELIT

COURSE COMPLETION LETTER

It is certified that

Marupaka Dhanush

Sathyabama Institute of Science and Technology

has successfully undergone the Bridge Course Training Program on

Cloud Computing Technology

Under "Futureskills PRIME" Programme

7th August 2023 to 9th September 2023

Shri. V. Sridharan
Chief Investigator
Cloud Computing Technology
Lead Resource Centre

L R PRAKASH
Digitally signed by L R PRAKASH
Date: 2023.09.29 14:22:21 +05'30'

Cdr.(Retd.) L.R. Prakash
Senior Director
Centre Head
C-DAC, Chennai

Ref No.:37/FSPCC/BC009/09/2023

इलेक्ट्रॉनिकी एवं
सूचना प्रौद्योगिकी मंत्रालय
MINISTRY OF
ELECTRONICS AND
INFORMATION TECHNOLOGY

सत्यमेव जयते

रा.इ.सू.प्रौ.सं
NIELIT

COURSE COMPLETION LETTER

It is certified that

Kesini Chowdary D

Sathyabama Institute of Science and Technology

has successfully undergone the Bridge Course Training Program on

Cloud Computing Technology

Under "Futureskills PRIME" Programme

7th August 2023 to 9th September 2023

Shri. V. Sridharan
Chief Investigator
Cloud Computing Technology
Lead Resource Centre

L R PRAKASH
Digitally signed by L R PRAKASH
Date: 2023.09.29 14:16:14 +05'30'

Cdr.(Retd.) L.R. Prakash
Senior Director
Centre Head
C-DAC, Chennai

Ref No.:38/FSPCC/BC009/09/2023

इलेक्ट्रॉनिकी एवं
सूचना प्रौद्योगिकी मंत्रालय
MINISTRY OF
ELECTRONICS AND INFORMATION TECHNOLOGY

सत्यमेव जयते

रा.इ.सू.प्रौ.सं
NIELIT

COURSE COMPLETION LETTER

It is certified that

Ketan Kumar

Sathyabama Institute of Science and Technology

has successfully undergone the Bridge Course Training Program on

Cloud Computing Technology

Under "Futureskills PRIME" Programme

7th August 2023 to 9th September 2023

Shri. V. Sridharan
Chief Investigator
Cloud Computing Technology
Lead Resource Centre

L R PRAKASH
Digitally signed by L R PRAKASH
Date: 2023.09.29 14:17:07 +05'30'

Cdr.(Retd.) L.R. Prakash
Senior Director
Centre Head
C-DAC, Chennai

Ref No.:108/FSPCC/BC001/09/2023

इलेक्ट्रॉनिकी एवं
सूचना प्रौद्योगिकी मंत्रालय
MINISTRY OF
ELECTRONICS AND INFORMATION TECHNOLOGY

सत्यमेव जयते

रा.इ.सू.प्रौ.सं
NIELIT

COURSE COMPLETION LETTER

It is certified that

S. Ashwini

Sathyabama Institute of Science and Technology

has successfully undergone the Bridge Course Training Program on

Cloud Computing Technology

Under "Futureskills PRIME" Programme

7th August 2023 to 9th September 2023

Shri. V. Sridharan
Chief Investigator
Cloud Computing Technology
Lead Resource Centre

L R PRAKASH
Digitally signed by L R PRAKASH
Date: 2023.09.29 17:38:10 +05'30'

Cdr.(Retd.) L.R. Prakash
Senior Director
Centre Head
C-DAC, Chennai

Ref No.:52/FSPCC/BC009/09/2023

इलेक्ट्रॉनिकी एवं
सूचना प्रौद्योगिकी मंत्रालय
MINISTRY OF
ELECTRONICS AND INFORMATION TECHNOLOGY

सत्यमेव जयते

रा.इ.सू.प्रौ.सं
NIELIT

COURSE COMPLETION LETTER

It is certified that

Nagolu Sriharinadhreddy

Sathyabama Institute of Science and Technology

has successfully undergone the Bridge Course Training Program on

Cloud Computing Technology

Under "Futureskills PRIME" Programme

7th August 2023 to 9th September 2023

Shri. V. Sridharan
Chief Investigator
Cloud Computing Technology
Lead Resource Centre

L R PRAKASH
Digitally signed by L R PRAKASH
Date: 2023.09.29 14:27:30 +05'30'

Cdr.(Retd.) L.R. Prakash
Senior Director
Centre Head
C-DAC, Chennai

Ref No.:103/FSPCC/BC001/09/2023

इलेक्ट्रॉनिकी एवं
सूचना प्रौद्योगिकी मंत्रालय
MINISTRY OF
ELECTRONICS AND INFORMATION TECHNOLOGY

सत्यमेव जयते

रा.इ.सू.प्रौ.सं
NIELIT

COURSE COMPLETION LETTER

It is certified that

Premachandar K S

Sathyabama Institute of Science and Technology

has successfully undergone the Bridge Course Training Program on

Cloud Computing Technology

Under "Futureskills PRIME" Programme

7th August 2023 to 9th September 2023

L R PRAKASH
Digitally signed by L R PRAKASH
Date: 2023.09.29 17:35:15 +05'30'

Shri. V. Sridharan
Chief Investigator
Cloud Computing Technology
Lead Resource Centre

Cdr.(Retd.) L.R. Prakash
Senior Director
Centre Head
C-DAC, Chennai

Ref No.:39/FSPCC/BC009/09/2023

इलेक्ट्रॉनिकी एवं
सूचना प्रौद्योगिकी मंत्रालय
MINISTRY OF
ELECTRONICS AND
INFORMATION TECHNOLOGY

सत्यमेव जयते

रा.इ.सू.प्रौ.सं
NIELIT

COURSE COMPLETION LETTER

It is certified that

Kondaveeti Gayathri

Sathyabama Institute of Science and Technology

has successfully undergone the Bridge Course Training Program on

Cloud Computing Technology

Under "Futureskills PRIME" Programme

7th August 2023 to 9th September 2023

Shri. V. Sridharan
Chief Investigator
Cloud Computing Technology
Lead Resource Centre

L R PRAKASH
Digitally signed by L R PRAKASH
Date: 2023.09.29 14:18:42 +05'30'

Cdr.(Retd.) L.R. Prakash
Senior Director
Centre Head
C-DAC, Chennai

Ref No.:57/FSPCC/BC001/09/2023

इलेक्ट्रॉनिकी एवं
सूचना प्रौद्योगिकी मंत्रालय
MINISTRY OF
ELECTRONICS AND INFORMATION TECHNOLOGY

सत्यमेव जयते

COURSE COMPLETION LETTER

It is certified that

Mohammad Atheef

Sathyabama Institute of Science and Technology

has successfully undergone the Bridge Course Training Program on

Cloud Computing Technology

Under "Futureskills PRIME" Programme

7th August 2023 to 9th September 2023

Shri. V. Sridharan
Chief Investigator
Cloud Computing Technology
Lead Resource Centre

L R PRAKASH
Digitally signed by L R PRAKASH
Date: 2023.09.29 15:08:34 +05'30'

Cdr.(Retd.) L.R. Prakash
Senior Director
Centre Head
C-DAC, Chennai

Ref No.:09/FSPCC/BC009/09/2023

इलेक्ट्रॉनिकी एवं
सूचना प्रौद्योगिकी मंत्रालय
MINISTRY OF
ELECTRONICS AND INFORMATION TECHNOLOGY

सत्यमेव जयते

रा.इ.सू.प्रौ.सं
NIELIT

COURSE COMPLETION LETTER

It is certified that

Aryan Shukla

Sathyabama Institute of Science and Technology

has successfully undergone the Bridge Course Training Program on

Cloud Computing Technology

Under "Futureskills PRIME" Programme

7th August 2023 to 9th September 2023

Shri. V. Sridharan
Chief Investigator
Cloud Computing Technology
Lead Resource Centre

L R PRAKASH
Digitally signed by L R PRAKASH
Date: 2023.09.29 13:48:05 +05'30'

Cdr.(Retd.) L.R. Prakash
Senior Director
Centre Head
C-DAC, Chennai

Ref No.:21/FSPCC/BC009/09/2023

इलेक्ट्रॉनिकी एवं
सूचना प्रौद्योगिकी मंत्रालय
MINISTRY OF
ELECTRONICS AND INFORMATION TECHNOLOGY

सत्यमेव जयते

रा.इ.सू.प्रौ.सं
NIELIT

COURSE COMPLETION LETTER

It is certified that

Daruvuru Puthin

Sathyabama Institute of Science and Technology

has successfully undergone the Bridge Course Training Program on

Cloud Computing Technology

Under "Futureskills PRIME" Programme

7th August 2023 to 9th September 2023

Shri. V. Sridharan
Chief Investigator
Cloud Computing Technology
Lead Resource Centre

L R PRAKASH
Digitally signed by L R PRAKASH
Date: 2023.09.29 13:57:59 +05'30'

Cdr.(Retd.) L.R. Prakash
Senior Director
Centre Head
C-DAC, Chennai

Ref No.:61/FSPCC/BC009/09/2023

इलेक्ट्रॉनिकी एवं
सूचना प्रौद्योगिकी मंत्रालय
MINISTRY OF
ELECTRONICS AND INFORMATION TECHNOLOGY

सत्यमेव जयते

रा.इ.सू.प्रौ.सं
NIELIT

COURSE COMPLETION LETTER

It is certified that

Periyaswamy V

Sathyabama Institute of Science and Technology

has successfully undergone the Bridge Course Training Program on

Cloud Computing Technology

Under "Futureskills PRIME" Programme

7th August 2023 to 9th September 2023

L R PRAKASH
Digitally signed by L R PRAKASH
Date: 2023.09.29 14:32:46 +05'30'

Shri. V. Sridharan
Chief Investigator
Cloud Computing Technology
Lead Resource Centre

Cdr.(Retd.) L.R. Prakash
Senior Director
Centre Head
C-DAC, Chennai

Ref No.:67/FSPCC/BC009/09/2023

इलेक्ट्रॉनिकी एवं
सूचना प्रौद्योगिकी मंत्रालय
MINISTRY OF
ELECTRONICS AND
INFORMATION TECHNOLOGY

सत्यमेव जयते

COURSE COMPLETION LETTER

It is certified that

Priyadharshan V

Sathyabama Institute of Science and Technology

has successfully undergone the Bridge Course Training Program on

Cloud Computing Technology

Under "Futureskills PRIME" Programme

7th August 2023 to 9th September 2023

Shri. V. Sridharan
Chief Investigator
Cloud Computing Technology
Lead Resource Centre

L R PRAKASH
Digitally signed by L R PRAKASH
Date: 2023.09.29 14:31:14 +05'30'

Cdr.(Retd.) L.R. Prakash
Senior Director
Centre Head
C-DAC, Chennai

Ref No.:27/FSPCC/BC009/09/2023

इलेक्ट्रॉनिकी एवं
सूचना प्रौद्योगिकी मंत्रालय
MINISTRY OF
ELECTRONICS AND INFORMATION TECHNOLOGY

सत्यमेव जयते

COURSE COMPLETION LETTER

It is certified that

Erina Vincent

Sathyabama Institute of Science and Technology

has successfully undergone the Bridge Course Training Program on

Cloud Computing Technology

Under "Futureskills PRIME" Programme

7th August 2023 to 9th September 2023

Shri. V. Sridharan
Chief Investigator
Cloud Computing Technology
Lead Resource Centre

L R PRAKASH
Digitally signed by L R PRAKASH
Date: 2023.09.29 14:06:05 +05'30'

Cdr.(Retd.) L.R. Prakash
Senior Director
Centre Head
C-DAC, Chennai

Ref No.:75/FSPCC/BC009/09/2023

इलेक्ट्रॉनिकी एवं
सूचना प्रौद्योगिकी मंत्रालय
MINISTRY OF
ELECTRONICS AND INFORMATION TECHNOLOGY

सत्यमेव जयते

COURSE COMPLETION LETTER

It is certified that

Sadat Anwar

Sathyabama Institute of Science and Technology

has successfully undergone the Bridge Course Training Program on

Cloud Computing Technology

Under "Futureskills PRIME" Programme

7th August 2023 to 9th September 2023

Shri. V. Sridharan
Chief Investigator
Cloud Computing Technology
Lead Resource Centre

L R PRAKASH
Digitally signed by L R PRAKASH
Date: 2023.09.29 14:34:20 +05'30'

Cdr.(Retd.) L.R. Prakash
Senior Director
Centre Head
C-DAC, Chennai

Ref No.:16/FSPCC/BC009/09/2023

इलेक्ट्रॉनिकी एवं
सूचना प्रौद्योगिकी मंत्रालय
MINISTRY OF
ELECTRONICS AND INFORMATION TECHNOLOGY

सत्यमेव जयते

रा.इ.सू.प्रौ.सं
NIELIT

COURSE COMPLETION LETTER

It is certified that

Bhargav Bharad

Sathyabama Institute of Science and Technology

has successfully undergone the Bridge Course Training Program on

Cloud Computing Technology

Under "Futureskills PRIME" Programme

7th August 2023 to 9th September 2023

Shri. V. Sridharan
Chief Investigator
Cloud Computing Technology
Lead Resource Centre

L R PRAKASH
Digitally signed by L R PRAKASH
Date: 2023.09.29 13:53:12 +05'30'

Cdr.(Retd.) L.R. Prakash
Senior Director
Centre Head
C-DAC, Chennai

Ref No.:08/FSPCC/BC009/09/2023

इलेक्ट्रॉनिकी एवं
सूचना प्रौद्योगिकी मंत्रालय
MINISTRY OF
ELECTRONICS AND INFORMATION TECHNOLOGY

सत्यमेव जयते

रा.इ.सू.प्रौ.सं
NIELIT

COURSE COMPLETION LETTER

It is certified that

Arush Bhagi

Sathyabama Institute of Science and Technology

has successfully undergone the Bridge Course Training Program on

Cloud Computing Technology

Under "Futureskills PRIME" Programme

7th August 2023 to 9th September 2023

L R PRAKASH
Digitally signed by L R PRAKASH
Date: 2023.09.29 13:47:29 +05'30'

Shri. V. Sridharan
Chief Investigator
Cloud Computing Technology
Lead Resource Centre

Cdr.(Retd.) L.R. Prakash
Senior Director
Centre Head
C-DAC, Chennai

Ref No.:58/FSPCC/BC009/09/2023

इलेक्ट्रॉनिकी एवं
सूचना प्रौद्योगिकी मंत्रालय
MINISTRY OF
ELECTRONICS AND INFORMATION TECHNOLOGY
सत्यमेव जयते

रा.इ.सू.प्रौ.सं
NIELIT

COURSE COMPLETION LETTER

It is certified that

Paruvada Nikhanze

Sathyabama Institute of Science and Technology

has successfully undergone the Bridge Course Training Program on

Cloud Computing Technology

Under "Futureskills PRIME" Programme

7th August 2023 to 9th September 2023

Shri. V. Sridharan
Chief Investigator
Cloud Computing Technology
Lead Resource Centre

L R PRAKASH
Digitally signed by L R PRAKASH
Date: 2023.09.29 14:33:19 +05'30'

Cdr.(Retd.) L.R. Prakash
Senior Director
Centre Head
C-DAC, Chennai

Ref No.:91/FSPCC/BC009/09/2023

इलेक्ट्रॉनिकी एवं
सूचना प्रौद्योगिकी मंत्रालय
MINISTRY OF
ELECTRONICS AND INFORMATION TECHNOLOGY

सत्यमेव जयते

COURSE COMPLETION LETTER

It is certified that

Vabilisetti Naga Yashvanth Kumar

Sathyabama Institute of Science and Technology

has successfully undergone the Bridge Course Training Program on

Cloud Computing Technology

Under "Futureskills PRIME" Programme

7th August 2023 to 9th September 2023

L R PRAKASH
Digitally signed by L R PRAKASH
Date: 2023.09.29 14:47:06 +05'30'

Shri. V. Sridharan
Chief Investigator
Cloud Computing Technology
Lead Resource Centre

Cdr.(Retd.) L.R. Prakash
Senior Director
Centre Head
C-DAC, Chennai

Ref No.:66/FSPCC/BC009/09/2023

इलेक्ट्रॉनिकी एवं
सूचना प्रौद्योगिकी मंत्रालय
MINISTRY OF
ELECTRONICS AND INFORMATION TECHNOLOGY

सत्यमेव जयते

रा.इ.सू.प्रौ.सं
NIELIT

COURSE COMPLETION LETTER

It is certified that

Praveen Kumar S

Sathyabama Institute of Science and Technology

has successfully undergone the Bridge Course Training Program on

Cloud Computing Technology

Under "Futureskills PRIME" Programme

7th August 2023 to 9th September 2023

Shri. V. Sridharan
Chief Investigator
Cloud Computing Technology
Lead Resource Centre

L R PRAKASH
Digitally signed by L R PRAKASH
Date: 2023.09.29 14:30:00 +05'30'

Cdr.(Retd.) L.R. Prakash
Senior Director
Centre Head
C-DAC, Chennai

Ref No.:31/FSPCC/BC009/09/2023

इलेक्ट्रॉनिकी एवं
सूचना प्रौद्योगिकी मंत्रालय
MINISTRY OF
ELECTRONICS AND INFORMATION TECHNOLOGY

सत्यमेव जयते

रा.इ.सू.प्रौ.सं
NIELIT

COURSE COMPLETION LETTER

It is certified that

Hemanth Vuppala

Sathyabama Institute of Science and Technology

has successfully undergone the Bridge Course Training Program on

Cloud Computing Technology

Under "Futureskills PRIME" Programme

7th August 2023 to 9th September 2023

Shri. V. Sridharan
Chief Investigator
Cloud Computing Technology
Lead Resource Centre

L R PRAKASH
Digitally signed by L R PRAKASH
Date: 2023.09.29 14:09:35 +05'30'

Cdr.(Retd.) L.R. Prakash
Senior Director
Centre Head
C-DAC, Chennai

Ref No.:57/FSPCC/BC009/09/2023

सत्यमेव जयते

इलेक्ट्रॉनिकी एवं
सूचना प्रौद्योगिकी मंत्रालय
MINISTRY OF
ELECTRONICS AND INFORMATION TECHNOLOGY

COURSE COMPLETION LETTER

It is certified that

Pardhasaradhi Reddy Karnati

Sathyabama Institute of Science and Technology

has successfully undergone the Bridge Course Training Program on

Cloud Computing Technology

Under "Futureskills PRIME" Programme

7th August 2023 to 9th September 2023

Shri. V. Sridharan
Chief Investigator
Cloud Computing Technology
Lead Resource Centre

L R PRAKASH
Digitally signed by L R PRAKASH
Date: 2023.09.29 14:28:25 +05'30'

Cdr.(Retd.) L.R. Prakash
Senior Director
Centre Head
C-DAC, Chennai

Ref No.:81/FSPCC/BC009/09/2023

इलेक्ट्रॉनिकी एवं
सूचना प्रौद्योगिकी मंत्रालय
MINISTRY OF
ELECTRONICS AND INFORMATION TECHNOLOGY

सत्यमेव जयते

COURSE COMPLETION LETTER

It is certified that

Shubhank Gupta

Sathyabama Institute of Science and Technology

has successfully undergone the Bridge Course Training Program on

Cloud Computing Technology

Under "Futureskills PRIME" Programme

7th August 2023 to 9th September 2023

L R PRAKASH
Digitally signed by L R PRAKASH
Date: 2023.09.29 14:40:34 +05'30'

Shri. V. Sridharan
Chief Investigator
Cloud Computing Technology
Lead Resource Centre

Cdr.(Retd.) L.R. Prakash
Senior Director
Centre Head
C-DAC, Chennai

Ref No.:40/FSPCC/BC009/09/2023

इलेक्ट्रॉनिकी एवं
सूचना प्रौद्योगिकी मंत्रालय
MINISTRY OF
ELECTRONICS AND INFORMATION TECHNOLOGY

सत्यमेव जयते

रा.इ.सू.प्रौ.सं
NIELIT

COURSE COMPLETION LETTER

It is certified that

Krishna Chaitanya Reddy

Sathyabama Institute of Science and Technology

has successfully undergone the Bridge Course Training Program on

Cloud Computing Technology

Under "Futureskills PRIME" Programme

7th August 2023 to 9th September 2023

Shri. V. Sridharan
Chief Investigator
Cloud Computing Technology
Lead Resource Centre

L R PRAKASH
Digitally signed by L R PRAKASH
Date: 2023.09.29 14:19:57 +05'30'

Cdr.(Retd.) L.R. Prakash
Senior Director
Centre Head
C-DAC, Chennai

Ref No.:93/FSPCC/BC009/09/2023

इलेक्ट्रॉनिकी एवं
सूचना प्रौद्योगिकी मंत्रालय
MINISTRY OF
ELECTRONICS AND INFORMATION TECHNOLOGY

सत्यमेव जयते

रा.इ.सू.प्रौ.सं
NIELIT

COURSE COMPLETION LETTER

It is certified that

Venkata Krishna Teja Chirra

Sathyabama Institute of Science and Technology

has successfully undergone the Bridge Course Training Program on

Cloud Computing Technology

Under "Futureskills PRIME" Programme

7th August 2023 to 9th September 2023

L R PRAKASH
Digitally signed by L R PRAKASH
Date: 2023.09.29 14:48:29 +05'30'

Shri. V. Sridharan
Chief Investigator
Cloud Computing Technology
Lead Resource Centre

Cdr.(Retd.) L.R. Prakash
Senior Director
Centre Head
C-DAC, Chennai

Ref No.:65/FSPCC/BC009/09/2023

इलेक्ट्रॉनिकी एवं
सूचना प्रौद्योगिकी मंत्रालय
MINISTRY OF
ELECTRONICS AND INFORMATION TECHNOLOGY

सत्यमेव जयते

COURSE COMPLETION LETTER

It is certified that

Prasanna Raj R

Sathyabama Institute of Science and Technology

has successfully undergone the Bridge Course Training Program on

Cloud Computing Technology

Under "Futureskills PRIME" Programme

7th August 2023 to 9th September 2023

Shri. V. Sridharan
Chief Investigator
Cloud Computing Technology
Lead Resource Centre

L R PRAKASH
Digitally signed by L R PRAKASH
Date: 2023.09.29 14:31:31 +05'30'

Cdr.(Retd.) L.R. Prakash
Senior Director
Centre Head
C-DAC, Chennai

Ref No.:85/FSPCC/BC009/09/2023

इलेक्ट्रॉनिकी एवं
सूचना प्रौद्योगिकी मंत्रालय
MINISTRY OF
ELECTRONICS AND INFORMATION TECHNOLOGY

सत्यमेव जयते

रा.इ.सू.प्रौ.सं
NIELIT

COURSE COMPLETION LETTER

It is certified that

Sundhararajan S

Sathyabama Institute of Science and Technology

has successfully undergone the Bridge Course Training Program on

Cloud Computing Technology

Under "Futureskills PRIME" Programme

7th August 2023 to 9th September 2023

L R PRAKASH
Digitally signed by L R PRAKASH
Date: 2023.09.29 14:43:22 +05'30'

Shri. V. Sridharan
Chief Investigator
Cloud Computing Technology
Lead Resource Centre

Cdr.(Retd.) L.R. Prakash
Senior Director
Centre Head
C-DAC, Chennai

Ref No.:46/FSPCC/BC009/09/2023

इलेक्ट्रॉनिकी एवं
सूचना प्रौद्योगिकी मंत्रालय
MINISTRY OF
ELECTRONICS AND INFORMATION TECHNOLOGY

सत्यमेव जयते

रा.इ.सू.प्रौ.सं
NIELIT

COURSE COMPLETION LETTER

It is certified that

Manikanta Chowdary Kurukuri

Sathyabama Institute of Science and Technology

has successfully undergone the Bridge Course Training Program on

Cloud Computing Technology

Under "Futureskills PRIME" Programme

7th August 2023 to 9th September 2023

Shri. V. Sridharan
Chief Investigator
Cloud Computing Technology
Lead Resource Centre

L R PRAKASH
Digitally signed by L R PRAKASH
Date: 2023.09.29 14:22:39 +05'30'

Cdr.(Retd.) L.R. Prakash
Senior Director
Centre Head
C-DAC, Chennai

Ref No.:59/FSPCC/BC009/09/2023

इलेक्ट्रॉनिकी एवं
सूचना प्रौद्योगिकी मंत्रालय
MINISTRY OF
ELECTRONICS AND INFORMATION TECHNOLOGY

सत्यमेव जयते

रा.इ.सू.प्रौ.सं
NIELIT

COURSE COMPLETION LETTER

It is certified that

Pavan Teja Parimisetty

Sathyabama Institute of Science and Technology

has successfully undergone the Bridge Course Training Program on

Cloud Computing Technology

Under "Futureskills PRIME" Programme

7th August 2023 to 9th September 2023

Shri. V. Sridharan
Chief Investigator
Cloud Computing Technology
Lead Resource Centre

L R PRAKASH
Digitally signed by L R PRAKASH
Date: 2023.09.29 14:30:50 +05'30'

Cdr.(Retd.) L.R. Prakash
Senior Director
Centre Head
C-DAC, Chennai

CERTIFICATE

OF INTERNSHIP COMPLETION

TO **Date: 30-12-2023**

JANARTH B
Sathyabama Institute Of Science And Technology

This is to certify that **JANARTH B** has successfully completed his **TWO MONTHS INTERNSHIP** program with **BrainOvision Solutions Pvt. Ltd.** He was working on **JAVA FULL STACK** and was actively & diligently involved in the projects and tasks assigned. During the span, we found him punctual and hardworking person.
His feedback and evolution proved that he is a quick learner. Congratulations and Best Wishes.

ROLE : **JAVA INTERN**
INTERN ID : **BOV23JD114**
START DATE : **23-10-2023**
END DATE : **28-12-2023**

Yours Faithfully

Ganesh Nag Boddi
Founder & CEO
Brainovision Solutions India Pvt Ltd

Dr. Buddha Chandrashekar
Chief Coordinating Officer – AICTE
All India Council for Technical Education

भारतीय सूचना प्रौद्योगिकी संस्थान, इलाहाबाद
Indian Institute of Information Technology, Allahabad
An Institute of National Importance by Act of Parliament
Deoghat, Jhalwa, Prayagraj-211015 (U.P.) INDIA
Ph.: 0532-2922025, 2922067, Fax : 0532-2922125, Web : www.iiita.ac.in, E-mail : contact@iiita.ac.in

F.NO: IIIT-A/INT/IT/2023/W-10

Dated 28/01/2024

To whom it may concern

This is to certify that **ADITYA PANDEY** **S/o Shri Harimohan Pandey** from "Sathyabama Institute of Science and Technology" has successfully completed winter internship program on the topic of **"Enhancing CEP rule extraction framework through Deep Ensemble learning."** from 01.12.2023 to 28.01.2024 at the Department of Information Technology, Indian Institute of Information Technology Allahabad, Prayagraj under the supervision of Dr. Sonali Agarwal.

The performance of the candidates has been ~~Poor/Average/Satisfactory~~/Very Good/~~Excellent~~ during the internship.

We wish him all the best for his future endeavors.

Supervisor

Faculty-incharge-internship

Faculty Incharge (Internship)
Indian Institute of Information Technology Allahabad
Deoghat, Jhalwa, Prayagraj-211015 (UP) INDIA


CIN: PITAP
CERTIFICATE
OF COMPLETION
17/05/2024
THIS CERTIFICATE IS PROUDLY PRESENTED TO
Dharshini Vs
for successfully completing a 1-month internship from 15th April, 2024 to 15th May, 2024 in Software Development with outstanding remarks at Prodigy InfoTech.
contact@prodigyinfotech.dev
prodigyinfotech.dev

HEURISTERS TECHNOLOGY SOLUTIONS LLP

LLPIN : ABC-4891

Address :

4/122,2ND STREET,SABAPATHY NAGAR,MADIPAKKAM, CHENNAI-600091

Contact : 9345563673

Email : heuristers@gmail.com

15th September,2023

SUB: INTERNSHIP COMPLETION LETTER

We are glad to inform you that **Ms. K Pranathi** from **Sathyabama Institute of Science and Technology, Chennai** has successfully completed her internship at **Heuristers Technology Solutions LLP** from **3rd July, 2023 – 3rd September, 2023.**

During her internship, she was exposed to the various activities in **Machine Learning Prediction Division.**

We found her extremely inquisitive and hard working. She was very much interested to learn the functions of our core division and also willing to put her best efforts and get in to the depth of the subject to understand it better.

Her association with us was very fruitful and we wish her all the best in her future endeavors.

For Heuristers Technology Solutions LLP

HEURISTERS TECHNOLOGY SOLUTIONS HTS CHENNAI

B. Harish

Harish B
Founder & Director

CERTIFICATE

OF INDUSTRIAL TRAINING

This certificate is proudly presented to :

Rachala yashwanth Kumar Reddy

For completing his Industrial Training program with industry mentors from April 1st 2024 to June 1st 2024. We found him performance to be commendable

VISHNU P NAIR
Head of Operations,
Intrainz

InTrAinZ
IGNITING A BRIGHTER FUTURE

0424BML5038

acmegrade

MOOD INDIGO
IIT BOMBAY

CERTIFICATE
OF TRAINING COMPLETION

This is to certify that

Mr./Ms. DHEERAJ G R

has successfully completed his / her term of Training

in Web Development from 12-Mar-2024

to 12-Apr-2024 and has proven his/her

competency with utmost dedication and promise.

Certificate number: AGC2024030683
For certificate authentication
Scan QR code

Challa Rohit
Academic Head

YHills
Learning Beyond Expectations

INTERNSHIP

COMPLETION CERTIFICATE

OFFICIAL INTERNSHIP PARTNER:

DATEX | DATEX

PROUDLY PRESENTED TO:

ADITYA RAJ

has successfully completed 2 months Internship from 01/04/2024 to 31/05/2024 in Artificial Intelligence at YHills.

Certificate ID : YHI-5008682

01/06/2024

DATE

YHILLS EDUTECH PVT. LTD.

AMAN KUMAR, CO-FOUNDER

TECH

OCTANET SERVICES PRIVATE LIMITED

S. Renusri

December, 2023

Mail ID : renusrisivakumar100@gmail.com

College Name : Sathyabama Institute of Science and Technology

We are delighted to make you an offer as a Development intern. This letter is to confirm your selection as Development intern at OctaNet Services Pvt Ltd. and to welcome you for the same effective from 1st Dec 2023.

Program Details :

- Start Date : **1st December 2023**
- Duration : **30 Days**
- Domain : **web Development Internship**
- Location : **Work From Home (Remote)**

Hope you will be doing well. This Internship is observed by OctaNet as being a learning opportunity for you.

Our internship program is a no-cost program your internship will embrace orientation and give emphasis on learning new skills with a deeper understanding of concepts through hands-on application of the knowledge you gained as an intern.

You will acknowledge your obligation to perform all work allocated to you to the best of your ability Within lawful and reasonable direction given to you.

We look forward to a worthwhile and fruitful association which will make you equipped for future projects, wishing you the most enjoyable and truly meaningful internship program experience.

Program Manager
OctaNet Services Pvt. Ltd.

OCTANET

OctaNet Services Pvt. Ltd
91+ 778 - 900 - 1046
support@octanet.in
Bhubaneswar, Odisha
https://www.octanet.in

MINISTRY OF CORPORATE AFFAIRS
#startupindia
IAF
ISO 9001 Certified
MSME

CODERS CAVE

CERTIFICATE

OF COMPLETION

This certificate is presented to

Nikitha B

for successful completion of 1 Month Virtual Internship Program in

Data science

with outstanding performance at CodersCave from

01/12/2023 - 31/12/2023

CID: CVIP/DEC1/001

MANAGING DIRECTOR

BHARAT INTERN

Completion Certificate

Proudly Presented to

NIKITHA B

successfully completed the Virtual Internship Program at BHARAT INTERN in Data Science as an active participant from December 10, 2023 to January 10, 2024.

MSME
MICRO, SMALL & MEDIUM ENTERPRISES
सूक्ष्म, लघु एवं मध्यम उद्यम

Verified by,
BHARAT INTERN

CERTIFICATE

OF COMPLETION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

Nikitha Baskaran

This certificate is given to Nikitha Baskaran for her internship in Galactis AI tech (OPC) PVT LTD from June 1st till June 30th.

Galactis

Madhujith Arumugam
Director Galactis AI tech (OPC) PVT LTD

CERTIFICATE OF EXPERIENCE

TALENT FACTORI PVT LTD

This is to certify that

NIKITHA BASKARAN

worked in the organization as

Intern

from 03-JUL-2023 to 28-JUL-2023

Digitally Issued Via Talent Chek

on 19-SEP-2023

Candidate's experience has been verified as genuine on Talent Chek by the organization.

Background verification calls and emails will not be entertained.

Login in to Talent Chek to find review, rating, roles and responsibilities.

SIST-PC-FORM-IP-2025

Date: 16.4.24

To

The Dean- Placements and Corporate Affairs
Sathyabama Institute of Science and Technology
Chennai-600119

Dear Sir,

Sub: Seeking Permission | Internship

This is to bring to your kind notice that I, KOLLI ABITHASRI, have been selected for an internship this academic year. I am writing to seek your permission to attend the same. This internship program is an integral part of my education and I will utilize the same to enhance my career. I would appreciate it, if you grant me permission to be excused from the regular classes and provide "On-Duty".

I am obligated to attend all the exams and reviews conducted by the university during the internship period.

Register#:

Degree & Department: BE CSE

Source of the internship: Campus Recruitment / Off campus Recruitment

Internship Role: Security Analyst

Organization Name: Securin

Start Date: 16 / APR / 2024 **(Ex: 01 / Jul / 23)**

End Date: 02 / JUL / 2025 **(Ex: 01 / Jul / 23)**

Stipend (Per Month): 15K

Location: Chennai, Tamil Nadu, India

Yours faithfully,

K. Abithasri

Signature 16/04/24

Dean- Placements and Corporate Affairs

Dr. E. JOHN BRUCE
DEAN - PLACEMENTS & CORPORATE AFFAIRS
SATHYABAMA
INSTITUTE OF SCIENCE AND TECHNOLOGY

Signature 16/4/24

Head of the Department

Dr. L. LAKSHMANAN, M.E., Ph.D.,
Professor and Head,
Dept. of CSE,
Sathyabama Institute of Science and Technology,
Chennai, India.

LearnNex

CyFuse IIIT Delhi

Certificate of Training

This certificate presented to

Ebbili Hemanath

has successfully completed training and internship on Artificial Intelligence of 60 hours from 15/04/2024 to 15/07/2024 During the training and internship the student was found hardworking, dedicated and diligent.

Head of marketing

Approved by: Microsoft cisco AUTODESK Adobe unity

LearnNex

CyFuse IIIT Delhi

CERTIFICATE OF INTERNSHIP

This is presented to

Ebbili Hemanath

has successfully completed training and internship on Artificial Intelligence of 60 hours from 15/04/2024 to 15/07/2024 During the training and internship the student was found hardworking, dedicated and diligent.

HEAD OF MARKETING

#L1AP112

Approved by: Microsoft cisco AUTODESK Adobe unity

INDUSTRIAL VISIT

An industrial visit was organized on September 5, 2023, for third-year B.E. CSE students to visit the Integral Coach Factory (ICF), specifically the ICF Furnishing Division located on New Avadi Rd, Villivakkam, Chennai.

Industrial visits are an integral part of Computer Science Engineering, serving as a means to acknowledge technological advancements. The purpose of these visits for students is to impart technical knowledge related to the latest developments in Computers and Data Management within the EDP Section. Industrial visits offer students insights into real working environments, including workstations, plants, assembly lines, machines, and systems. They also provide opportunities for interaction with highly trained and experienced professionals. Students can gain valuable insights that will contribute to their personal and professional development.



Shia#sh
Focus on Deliverables

08th June 2023

Mr. Darvin Xavier P

Reg.No: 40110291

Sathyabama Institute of Science and Technology

Chennai.

Dear Darvin,

On behalf of **Shiash Info Solutions Private Limited**.We would like to inform you that you have been accepted as one of our interns.We are pleased to inform you that you have been qualified as per the company requirements for the internship.You will be working with our Technical team.

Your internship will begin effectively from **June 2023 to August 2023**.You will be assigned to various tasks which relate to the project assigned to you after which your performance will be assessed and appraised with stipends ranging from INR 5000 - INR 12000 based on performance parameter.

For **Shiash Info Solutions Private Limited**



Ashwini Kanniyappan
Manager – Human Resources
Shiash Info Solutions Private Limited
#51, Level 4, Tower A, Rattha TEK Meadows, Old Mahabalipuram Road,
Sholinganallur, Chennai – 600 119, Tamil Nadu, India
+91 44 66255681 info@shiash.com

SIST-PC-FORM-IP-2024

Date: 25/11/2023

To

The Dean- Placements and Corporate Affairs
Sathyabama Institute of Science and Technology
Chennai-600119

Dear Sir,

Sub: Seeking Permission | Internship

This is to bring to your kind notice that I, SWARNA KRISHNA PRIYA, have been selected for an internship this academic year. I am writing to seek your permission to attend the same. This internship program is an integral part of my education and I will utilize the same to enhance my career. I would appreciate it, if you grant me permission to be excused from the regular classes and provide "On-Duty".

I am obligated to attend all the exams and reviews conducted by the university during the internship period.

Register#: 40111306

Degree & Department: B.E - C.S.E

Source of the internship: Campus Recruitment / Off campus Recruitment

Internship Role: student intern

Organization Name: NOKIA

Start Date: September 4, 2023

End Date: June 30 2024

Stipend (Per Month): 25,000

Yours faithfully,

S.KrishnaPriya

25/11

Signature

Dean- Placements and Corporate Affairs

Signature

Head of the Department

Dr. E. JOHN BRUCE
DEAN - PLACEMENTS & CORPORATE AFFAIRS
SATHYABAMA
INSTITUTE OF SCIENCE AND TECHNOLOGY
CHENNAI-600 119.

Dr. L. LAKSHMANAN, M.E.,Ph.D.,
Professor and Head,
Dept. of CSE,
Sathyabama Institute of Science and Technology,
Chennai, India.

SIST-PC-FORM-IP-2024

Date: 19/10/2023

To

The Dean- Placements and Corporate Affairs
Sathyabama Institute of Science and Technology
Chennai-600119

Dear Sir,

Sub: Seeking Permission | Internship

This is to bring to your kind notice that I, TANWI GEETIKA, have been selected for an internship this academic year. I am writing to seek your permission to attend the same. This internship program is an integral part of my education and I will utilize the same to enhance my career. I would appreciate it, if you grant me permission to be excused from the regular classes and provide "On-Duty".

I am obligated to attend all the exams and reviews conducted by the university during the internship period.

Register#: 40111320

Degree & Department: BE CSE

Source of the internship: Campus Recruitment / Off campus Recruitment

Internship Role: ENGINEERING INTERN

Organization Name: OPENTEXT

Start Date: 31/10/2023

End Date:

Stipend (Per Month): 15000

Yours faithfully,

{<<<<<Student's Signature>>>>>>>}

For

Signature 19/10/23

Dean- Placements and Corporate Affairs

Signature 19/10/23

Head of the Department

Dr. E. JOHN BRUCE
DEAN - PLACEMENTS & CORPORATE AFFAIRS
SATHYABAMA
INSTITUTE OF SCIENCE AND TECHNOLOGY
CHENNAI-600 119.

Dr. L. LAKSHMANAN, M.E.,Ph.D.,
Professor and Head,
Dept. of CSE,
Sathyabama Institute of Science and Technology,
Chennai, India.

19/10/23
RAJASHREE

To a Future With More Cheers

Tech Internship 2023

Building Relationships for Excellence and Winning

Internship Letter

"To a Future With More Cheers"

Date: 10/7/2023

Dear ***Sai Udayakeerthi Mangala***,

Congratulations!

We at AB InBev GCC Services India Private Limited ("**GCC**" or the "**Company")** are delighted to extend our offer to you as part of our internship program based in Bangalore.

AB InBev GCC is a group/associate company of Anheuser Busch InBev ("**AB InBev**") committed to driving growth that leads to better living for more people in more places. We take the development of our people seriously and help you dream bigger than what you think is possible. This is an exciting opportunity to intern with AB InBev and to challenge yourself with innovative and impactful projects. AB InBev is a leading global brewer and one of the world's top five consumer product companies.

Your Internship with GCC shall commence from **24/07/2023** to **22/12/2023** subject to your acceptance of these Terms and Conditions. Please sign and return a copy of this letter and the Terms and Conditions to indicate your acceptance of this Tech Internship. The Terms and Conditions of your Internship are included below as Schedule A.

You will be given an extensive orientation on AB InBev upon commencement of the Internship.

We look forward to working with you and would like to take this opportunity to wish you every success during your Internship.

Yours sincerely,
Abhijeet Kadam
Lead – Talent Acquisition

Schedule A

TERMS AND CONDITIONS OF THE INTERNSHIP

Welcome to AB InBev GCC Services!

These Terms and Conditions of your Internship are effective from **24/07/2023 .**

LOCATION: The Internship will be based at the office location mentioned below:

- Peridot Block, 11th, 12th & 13th Floor, Bagmane World Technology Centre-SEZ, K.R. Puram - Marathalli Ring Road, Bengaluru- 560048

However, in the current circumstances the internship would be hybrid mode and you are expected to adhere to the AB InBev GCC's Hybrid Work Policy.

In case you are required to travel, whether in or around India or overseas in connection with your internship, your expenses and costs in connection with such travel will be borne by the Company in accordance with the Company's current travel and expenses policy.

STIPEND

During the Internship Period you will receive a stipend of **[INR 30000 (Thirty thousand Only)]** per month. The stipend being paid to the intern is to meet the cost of education.

HOLIDAYS

You will also be entitled to all declared holidays each calendar year, along with any other days as may be specifically prescribed by the Company. Except as mentioned above, you are not entitled to any leave during the Internship period except as approved by the Company representative.

TERMINATION

Your Internship can be terminated:

(i) Immediately, with or without notice, on your breach of these Terms and Conditions or any of the Company policies applicable to you.
(ii) Upon you or the Company giving each other one (1) week's written notice or the Company paying you or you are paying the Company pro-rated Stipend in lieu thereof.

CONSEQUENCES OF TERMINATION

Upon termination of your Internship, for any reason, you will return to Company, any property belonging to the Company, such as laptop, computer, mobile phone, identity card, equipment, record cards, papers, documents and credit cards, and other devices with details of any passwords or user ids installed therein, kept or made by or supplied to you relating to the business of the Company. You shall also return all confidential information, including any documents and information, of whatever description or in whatever form, tangible or intangible, in your possession, together with copies, notes or summaries of such documents and your working papers which are derived of or based on such documents (without retaining any copy thereof).

CONFIDENTIALITY

You agree that during the Internship Period, you will have access, directly or indirectly, to certain Confidential Information of the Company, its affiliates, employees, contractors and/or clients. By accepting this Internship Letter, you acknowledge that you shall adhere to our confidentiality policy and agree to execute the Confidentiality Undertaking as set out in Annexure1 herein.

You agree to comply with all the Company's policies and standards in effect at all times during your Internship Period.

INTELLECTUAL PROPERTY

Any Intellectual Property shall be disclosed to the Company whether conceived apprehended or learned by you during the course of, or after the termination of your Internship, and you shall give to the Company all such explanations, demonstrations and instructions as the Company may deem appropriate to enable the full effectual working production and use of the same.

All Intellectual Property, irrespective of whether made, devised or discovered during normal working hours or using the facilities of the Company, whether alone or jointly with others, shall be the exclusive property of the Company. You hereby convey ownership in all such Intellectual Property to the Company upon inception or development. To the extent that the Company is not the immediate owner of the Intellectual Property, you irrevocably assign all Intellectual Property to the Company, in perpetuity and on a worldwide basis. This assignment shall not lapse in any circumstances, including upon the failure of the Company to exercise its rights under the assignment for any period.

You shall always, whether during the course of, or after the termination of your internship:

a) Not (unless with the prior written consent of the Company) apply for any patent, design or other registration as the case may be, either in India, or in any other part of the world for any Intellectua Property conceived or made by you.

b) Without prejudice to the above bullet point, if and whenever required by the Company to do so (and in such manner as the Company shall in its sole discretion decide) you shall apply as a nominee of, or jointly with the Company, for patent, design or other registration in India, and as the Company may require any other part of the world for any Intellectual Property and without additional payment, shall execute all such documents, deeds, undertakings, declarations, and do all such things as may be necessary to effectively obtain or vest in the Company, the legal and beneficial ownership of all applications at any time, and from time to time pending and all resulting patents, design and other Intellectual Property registration when granted, and all right title and interest to and in the same in the Company absolutely.

c) To the extent that the full title in any Intellectual Property is not automatically vested in the Company, you agree to irrevocably assign, in perpetuity and on a worldwide and royalty free basis, all such Intellectual Property produced by you during your internship, whether during normal hours of work of the Company or otherwise or at the premises or using the facilities of the Company or otherwise, to the Company; and

d) Waive all moral rights arising from any such works or material so far as you may lawfully do so in favor of the Company.

You shall do nothing (whether by act or omission) during the Internship Period or at any times thereafter, to affect or imperil the validity of any Intellectual Property obtained, applied for, or to be applied for by the Company or its nominee.

The Company shall pay all expenses in connection with any application for patent design or other registration made by you as nominee for, or jointly with the Company, pursuant to this section of your Internship Letter.

Nothing in this Internship Letter shall oblige the Company to seek patent or other protection for any Intellectual Property or to exploit any such Intellectual Property.

It shall be presumed (but subject to proof to the contrary) that the subject matter of any application for a patent, design or other Intellectual Property registration filed by you or any assignee or agent of yourself within 12 months after the termination of your internship and relating to goods or services of a kind with which you were concerned in the course of your internship, is Intellectual Property made by you during your internship with the Company.

For the purposes of these terms and conditions "Intellectual Property" means any patents, inventions, know- how, trade secrets and other confidential information, registered designs, copyrights, data, database rights, design rights, rights affording equivalent protection to copyright, database rights and design rights, semiconductor topography rights, trademarks, service marks, logos, domain names, business names, trade names, moral rights, and all registrations or applications to register any of the items referred to above, equivalent or similar rights to these rights in any other country or jurisdiction, rights in the nature of unfair competition rights and rights to sue for passing-off conceived or made by you during the course of or arising out of your internship with the Company (whether alone or together with any other person or persons) and which concern or are applicable to products or articles manufactured or sold by, or services provided by the Company

DATA PROTECTION

The Company may, in connection with your Internship, collect and receive personal information, including sensitive personal data or information **("SPDI")** relating to you or third parties associated with you (such as your spouse or children). Such personal information may be received from you, or from other sources, and some limited personal information may be recorded directly or indirectly by internal security systems or by other means and process such information for purposes related to your internship. The Company may hold, retain, use and periodically transfer your personal information including SPDI to third parties, including to group companies, for the purpose of implementation, administration and management of the internship and related purposes, which may include, but are not limited to, your review/appraisal. The recipient of your personal information may be located in India or any other country, which may have different data privacy laws applicable.

You expressly consent to the following:

a) the collection and processing of your personal information and SPDI by the Company, for internship purposes;
b) the transfer, worldwide, of personal information and SPDI held by the Company, about you to other group companies, and to third parties, where disclosure to such third parties is required in the normal course of business or by law

"**SPDI",** for the purpose of these terms and conditions, shall mean such personal information which consists of information relating to –
a) password;
b) financial information such as bank account or credit card or debit card or other payment instrument details;
c) physical, physiological and mental health condition;
d) sexual orientation;
e) medical records and history;
f) biometric information; and
g) any detail relating to the above clauses as provided to the Company. Please notify the Company representative if you object to providing this consent.

SOLICITATION OF EMPLOYEES

You agree that for a period of twelve (12) months immediately following the termination of your Internship with GCC for any reason, whether with or without cause, you shall not either directly or indirectly solicit, induce, recruit or encourage any of GCC's employees to leave their employment, or take away such employees, or attempt to solicit, induce, recruit, encourage or take away employees of GCC, either for yourself or for any other person or entity

MISCELLANEOUS

a) The provisions of these Terms and Conditions shall be governed by and construed in accordance with the laws of India. You agree that the courts at Bangalore shall have the exclusive jurisdiction to settle any claim or matter arising under these Terms and Conditions.
b) No delay in exercising or omission to exercise any right, power or remedy accruing to a party upon any default under these Terms and Conditions shall impair any such right, power or remedy or shall be construed to be a waiver thereof, or any acquiescence in such default, nor shall the action or inaction of such party in respect of any default or any acquiescence by it in any default, affect or impair any right, power or remedy of such party in respect of any other default.

c) These Terms and Conditions as well as the Annexures constitute the entire agreement between you and the Company with respect to the subject matter hereof, to the exclusion of all other understandings and assurances, either written, or oral.

d) If any provision of these Terms and Conditions are, for any reason, held to be invalid or unenforceable, the other provisions of these Terms and Conditions will be unimpaired, and the invalid or unenforceable provision will be deemed modified so that it is valid and enforceable to the maximum extent permitted by law.

e) The Company, at its sole discretion, can make amendment, modification, or terminate any provision of these Terms and Conditions which shall be effective when the same is communicated to you in writing.

We look forward to you joining the AB-InBev team.

Acknowledgement

I acknowledge receipt of this Internship Letter and enclosures and agree to the terms and conditions as stated therein. I have retained a copy and understand the Company will also hold a copy.

Signed: ..... Date: .....

ANNEXURE 1

CONFIDENTIALITY UNDERTAKING ("Undertaking")

I,_____s/o or d/o_____ , and residing at_____ have been given an opportunity to be a part of the BREW Internship at AB InBev GCC Services India Private Limited **("GCC" or "Company")** I do hereby solemnly affirm, declare and undertake the following:

1. Confidential Information:

1.1 I acknowledge that during the Internship Period I shall be provided with and have access to substantial Confidential Information of the Company. I agree at all times during the Internship Period and thereafter, to hold in strictest confidence, and not to use, except for the benefit of GCC, or to disclose to any person, firm or corporation any Confidential Information without the prior written approval of an authorized signatory of GCC. In the event that I am required to disclose any Confidential Information to a governmental authority, I may do so to the extent required, after providing reasonable notice of my intention to do so to the Company. I understand that "Confidential Information" means any proprietary information, technical data, trade secrets or know how, including, but not limited to, research, product plans, products, services, customer lists and customers (including, but not limited to, customers of the GCC on whom I called or with whom I became acquainted during the term of my internship), markets, software, developments, inventions, processes, formulas, technology, designs, drawings, engineering, hardware configuration information, marketing, finances or other business information disclosed to me by GCC either directly or indirectly in writing, orally or by drawings or observation of parts or equipment. I further understand that Confidential Information does not include any of the foregoing items which has become publicly known and made generally available through no wrongful act of mine or of others who were under confidentiality obligations as to the item or items involved.

1.2 Former Employer Information - I agree that I will not, during my internship with GCC, improperly use or disclose any proprietary information or trade secrets of any former or concurrent employer or other person or entity and that I will not bring onto the premises of GCC any unpublished document or proprietary information belonging to any such employer, person or entity unless consented to in writing by such employer, person or entity.

1.3 Third Party Information - I recognize that GCC has received and in the future will receive from third parties their confidential or proprietary information subject to a duty on GCC's part to maintain the confidentiality of such information and to use it only for certain limited purposes. I agree to hold all such confidential or proprietary information in the strictest confidence and not to disclose it to any person, firm or corporation or to use it except as necessary in carrying out my work for GCC consistent with GCC's agreement with such third party.

2. Conversion to employee: In the event that my position is converted to that of a paid employee, I agree that all aspects of this Undertaking will remain in effect.

3. Returning GCC Documents. I agree that, at the time of leaving GCC, I will deliver to GCC (and will not keep in my possession, recreate or deliver to anyone else any and all devices, records, data, notes, reports, proposals, lists, correspondence, specifications, drawings, blueprints, sketches, materials, equipment, other documents or property, or reproductions of any aforementioned items developed by me pursuant to my internship with GCC or otherwise belonging to GCC, its successors or assigns. In the event of the termination of my internship, I agree to sign and deliver the Termination Certification attached as Exhibit A.

4. Notification to New Employer. In the event that I leave GCC, I hereby grant consent to notification by GCC to my new employer about my rights and obligations under this Undertaking.
5. Representations. I agree to execute any proper oath or verify any proper document required to carry out the terms of this Undertaking. I represent that my performance of all the terms of this Undertaking will not breach any agreement to keep in confidence proprietary information acquired by me in confidence or in trust prior to my internship with GCC. I have not entered, and I agree I will not enter into, any oral or written agreement in conflict herewith.

6. Equitable Relief. I agree that it would be impossible or inadequate to measure and calculate GCC's damages from any breach of the covenants set forth herein. Accordingly, I agree that if I breach any of such Sections, GCC will have available, in addition to any other right or remedy available, the right to obtain an injunction from a court of competent jurisdiction restraining such breach or threatened breach and to specific performance of any such provision of this Undertaking. I further agree that no bond or other security shall be required in obtaining such equitable relief and I hereby consent to the issuance of such injunction and to the ordering of specific performance.

7. Governing Law and Jurisdiction. I agree that any dispute or controversy arising out of or relating to any interpretation, construction, performance, or breach of this Undertaking will be governed by the laws of India. I hereby expressly consent to the jurisdiction of the courts at Bangalore.

Date:

Place:

Signature:

Name:

EXHIBIT – A

TERMINATION CERTIFICATION

This is to certify that I do not have in my possession, nor have I failed to return, any devices, records, data, notes, reports, proposals, lists, correspondence, specifications, drawings, blueprints, sketches, materials, equipment, other documents or property, or reproductions of any aforementioned items belonging to AB InBev GCC Services India Private Limited its subsidiaries, affiliates, successors or assigns (together, the "GCC").

I further certify that I have complied with all the terms of GCC's Confidentiality Undertaking dated **Immediate Date post internship start** signed by me. I further agree that, in compliance with the Confidentiality Undertaking, I will preserve as confidential all trade secrets, confidential knowledge, data or other proprietary information relating to products, processes, know-how, designs, formulas, developmental or experimental work, computer programs, data bases, other original works of authorship, customer lists, business plans, financial information or other subject matter pertaining to any business of GCC or any of its employees, clients, consultants or licensees.

Date:

Place:

Signature:

Name

SIST-PC-FORM-IP-2024

Date: 12/08/2023

To

The Dean- Placements and Corporate Affairs
Sathyabama Institute of Science and Technology
Chennai-600119

Dear Sir,

Sub: Seeking Permission | Internship

This is to bring to your kind notice that I, Mallid: Mohan Venkata Surya Teja Reddy have been selected for an internship this academic year. I am writing to seek your permission to attend the same. This internship program is an integral part of my education and I will utilize the same to enhance my career. I would appreciate it, if you grant me permission to be excused from the regular classes and provide "On-Duty".

I am obligated to attend all the exams and reviews conducted by the university during the internship period.

Register#: 40110709

Degree & Department: B.E- CSE

Source of the internship: Campus Recruitment / Off campus Recruitment

Internship Role:

Organization Name: VOLTA

Start Date: 14/08/203

End Date: 30/06/2024

Stipend (Per Month): 25,000/-

Yours faithfully,

M. Mohan Teja Reddy

12/08/23

Signature

Dean- Placements and Corporate Affairs

Dr. E. JOHN BRUCE
DEAN - PLACEMENTS & CORPORATE AFFAIRS
SATHYABAMA
INSTITUTE OF SCIENCE AND TECHNOLOGY
CHENNAI-600 119.

12/8/23

Signature

Head of the Department

HEAD OF THE DEPARTMENT
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
SATHYABAMA
INSTITUTE OF SCIENCE AND TECHNOLOGY
(DEEMED TO BE UNIVERSITY)
Jeppiaar Nagar, Rajiv Gandhi Salai,
Chennai - 600 119.

NOKIA

12/08/23

Dr. E. JOHN BRUCE
DEAN - PLACEMENTS & CORPORATE AFFAIRS
SATHYABAMA
INSTITUTE OF SCIENCE AND TECHNOLOGY
CHENNAI-600 119.

August 1, 2023

Dear Mallidi Mohan Venkata Surya Teja Reddy,

Congratulations!

We are delighted to extend to you an offer for appointment at Nokia Solutions Networks India. Where you will be connected to global technology leader at the heart of connected world. A truly global company, we are 130 nationalities working in more than 100 countries.

At Nokia, we create technology that helps the world act together. As a trusted partner for critical networks, we are committed to innovation and technology leadership across mobile, fixed and cloud networks. We create value with intellectual property and long-term research, led by the award-winning Nokia Bell Labs. Adhering to the highest standards of integrity and security, we help build the capabilities needed for a more productive, sustainable and inclusive world.

Nokia is enabling the infrastructure for 5G and the Internet of Things to transform the human experience. Powered by the research and innovation of Nokia Bell Labs, we serve communications service providers, governments, large enterprises and consumers, with the industry's most complete, end-to-end portfolio of products, services and licensing.

Our focus is, and has always been, on people. We create technology that helps people thrive. It is through our people and culture that we shape technology to serve human needs. Our pursuit of performance with integrity and sustainability a culture that stems from our Finnish roots is key to why our customers and partners choose to work with us.

Please take a moment to carefully review the attached details of this offer of appointment. Should you have any questions regarding this offer, you may please contact the Talent Attraction Partner. On accepting this offer of appointment, you will receive a detailed appointment contract, on your date of joining which is not later than **August 14, 2023.**

We look forward to welcoming you on board and hope you will join us to be part of something great at Nokia Solutions and Networks.

Yours sincerely,

Head of Talent Attraction Asia and MEA

NOKIA

Offer Details	
RR No.	23000003KX
Candidate Name	Mallidi Mohan Venkata Surya Teja Reddy
Primary Work Location	Manyata Embassy Business Park, Nagawara, Hebbal Ring Road, Bangalore, 560045
Job Grade	5
Job Title	Student Intern
Hiring Manager	Swaminathan S
Date of Joining	August 14, 2023
Contract End date	June 30, 2024

Compensation Elements	Per Month	Per Annum
Annual Base Pay	INR 25,000.00	INR na
Incentive Plan*		INR na
Total Target Cash**		INR 300000

**Eligible to participate, and subject to the plan rules, eligibility conditions and any performance criteria in place from time to time. The amount given is for illustrative purpose only.(not applicable for student trainees)*

***This is for illustrative purposes only and is subject to the precise incentive plan payments, as set out above.(not applicable for student trainees)*

This offer and your continued appointment are conditional upon you satisfactorily passing Nokia's standard pre-employment checks, work visa and screening process, which may be performed by a third party, including the following:

a) Satisfactory references being obtained which may include contact with your previous employers. (We shall not contact your current employer without your permission.
b) Receipt of a certificate of service from your current/most recent employer.
c) Verification of your academic qualifications.
d) Clearing pre-employment medical check-up and/or security checks you may be required to undertake.
e) Issuance of appropriate visa and residence permits by the relevant government authorities

(together the "pre-employment Checks")

NOKIA

This offer and/or any appointment contract issued to you may be retracted or withdrawn at any time by Nokia if any of the pre-employment Checks prove to be unsatisfactory or any of the conditions are not satisfied and Nokia reserves the right to terminate your appointment immediately on this basis if you have already commenced appointment.

By signing this offer of appointment, you agree to provide Nokia with such personal information which is necessary to enable the company to undertake to the pre-employment Checks and agree that the company can pass such information to any third-party undertaking checks on behalf of Nokia.

You agree to use your best endeavors to provide accurate information and to keep the Company informed of any changes to your personal data.

This offer and/or any appointment contract issued to you may be retracted or withdrawn at any time by Nokia if in the company's reasonable opinion your conduct contravenes our Nokia "Essentials", code of conduct and/ or India Labor Law or brings Nokia or yourself into disrepute

This offer is valid for one week from the date of issuance only and in case you do not accept within the stipulated time then the offer is not valid and will be deemed to have been withdrawn.

The terms of this offer of appointment are confidential and you should not disclose them to any third party except to your immediate family in strict confidence.

I,**Mallidi Mohan Venkata Surya Teja Reddy** hereby accept this offer:

Signature: M.M.V.Surya Teja Reddy

Date & Place: 02-08-2023, & Chennai

31st July 2024
Sathyabama Institute of Science and Technology,
Chennai.

Internship Completion Certificate

Nokia Solutions and Networks India Pvt. Ltd.
(formerly known as Nokia Siemens Networks Pvt. Ltd.)
7th Floor, Tower A, Building No. 9,
DLF Cybercity, Phase III
Gurgaon – 122002, Haryana, India
Corp Identity No.
U72900DL2006PTC155149

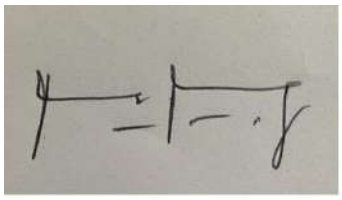
This is to certify that Dudekula Razak (Reg.No 40110341), student from Sathyabama Institute of Science and Technology, Chennai has undergone Internship program at Nokia Solutions and Networks India Pvt Ltd. From 16th Oct 2023 to 31st July 2024 as part of partial fulfilment of his B.E Computer Science & Engineering academic program.

Project Title: Cloud Femtocell Management console – UI

The Trainee was found to be regular, punctual and attentive during the period of training at our organization.

As per Non-Disclosure Agreement the design details and source code of the projects executed at Nokia Networks Pvt Ltd organization are confidential and/or proprietary information. We have limitation to share the design details and source code of the project to external parties other than our key stakeholders. Hence Interns are advised not to share the key deliverables of the project.

Regd. Address:
Nokia Solutions and Networks India Pvt. Ltd.
1507 Regus Business Center
Eros Corporate Tower Level 15,
Nehru Place, New Delhi – 110019, India



Signature
Manager-Business Line

arcon

13th January, 2023

Mr. Manish Kumar Mani

Sub: Project Training

We are pleased to offer you Project Training in Software Developer on following terms and conditions:

Duration	: 05-June-2023 to 05-December-2023
Designation	: Intern
Stipend	: 30000/-PM
Project Location	: Mumbai

Your immediate manager will communicate details of your role and work responsibilities in the initial weeks of you're joining the employer.

At the Project Location city, you are expected to make your own accommodation and travel arrangements, to and from your place of work.

Your working hours will be as per those of the clients or as per the offices as the case may be. You will not be entitled to any benefits and allowances as applicable to the employees of the firm.

Looking forward to having you with us, and hope you have a rewarding and challenging experience with ARCON Techsolutions Pvt Ltd.

To indicate your acceptance of this position, please sign the attached copy of this letter and return it to the office. If you have any questions please contact HR –coordinator: Madhura Pagar at +91 022 42215300.

Sincerely Yours,
For **ARCON Techsolutions Pvt Ltd.**

Satabdi

Satabdi Das

Accepted: Manish Kr Mani
Signature: Mr. Manish Kumar Mani

ARCON Techsolutions Pvt. Ltd.
901, Kamla Executive Park,
Off Andheri-Kurla Road,
JB Nagar, Andheri (E),
Mumbai – 400059.

Tel. +91 22 4221 5300
Fax. +91 22 4221 5303
info@arconnet.com
(CIN: U74999MH2009PTC190703

ABInBev

Congratulations!

Mullapudi Karthik

On successfully completing a fulfilling internship with AB InBev.

We wish you continued success in your future endeavors.

(24th Jul 2023 – 30th April 2024)

RUNA DHAWAN
People Director, GHQ India

ABHIJEET KADAM
Lead, Talent Acquisition

ABInBev

To a Future With More Cheers

Tech Internship 2023

Building Relationships for Excellence and Winning

Internship Letter

"To a Future With More Cheers"

Date: 10/7/2023

Dear ***Sriramya Nittala***,

Congratulations!

Dr. E. JOHN BRUCE
DEAN - PLACEMENTS & CORPORATE AFFAIRS
SATHYABAMA
INSTITUTE OF SCIENCE AND TECHNOLOGY

We at AB InBev GCC Services India Private Limited ("**GCC**" or the "**Company**") are delighted to extend our offer to you as part of our internship program based in Bangalore.

AB InBev GCC is a group/associate company of Anheuser Busch InBev ("**AB InBev**") committed to driving growth that leads to better living for more people in more places. We take the development of our people seriously and help you dream bigger than what you think is possible. This is an exciting opportunity to intern with AB InBev and to challenge yourself with innovative and impactful projects. AB InBev is a leading global brewer and one of the world's top five consumer product companies.

Your Internship with GCC shall commence from **24/07/2023** to **22/12/2023** subject to your acceptance of these Terms and Conditions. Please sign and return a copy of this letter and the Terms and Conditions to indicate your acceptance of this Tech Internship. The Terms and Conditions of your Internship are included below as Schedule A.

You will be given an extensive orientation on AB InBev upon commencement of the Internship.

We look forward to working with you and would like to take this opportunity to wish you every success during your Internship.

Yours sincerely,
Abhijeet Kadam
Lead – Talent Acquisition

SIST-PC-FORM-IP-2024 Date: 24-07-23

To

The Dean- Placements and Corporate Affairs
Sathyabama Institute of Science and Technology
Chennai-600119

Dear Sir,

Sub: Seeking Permission | Internship

This is to bring to your kind notice that I, Nittala Sri Ramya, have been selected for an internship this academic year. I am writing to seek your permission to attend the same. This internship program is an integral part of my education and I will utilize the same to enhance my career. I would appreciate it, if you grant me permission to be excused from the regular classes and provide "On-Duty".

I am obligated to attend all the exams and reviews conducted by the university during the internship period.

Register#: 40110865

Degree & Department: BE & CSE

Source of the internship: Campus Recruitment / Off campus Recruitment ✓

Internship Role:

Organization Name: ABInbev GCC

Start Date: 24-07-23

End Date: 22-12-23

Stipend (Per Month): 30K

Yours faithfully,

Nsriramya

<<<<Student's Signature>>>>

Signature

Dean- Placements and Corporate Affairs

Dr. E. JOHN BRUCE
DEAN - PLACEMENTS & CORPORATE AFFAIRS
SATHYABAMA
INSTITUTE OF SCIENCE AND TECHNOLOGY
CHENNAI-600 119.

Signature 13/7/2023

Head of the Department

Dr. L. LAKSHMANAN, M.E.,Ph.D.,
Professor and Head,
Dept. of CSE,
Sathyabama Institute of Science and Technology,
Chennai, India.

27th January, 2023

Ms. Sravanthi Nuthanapati

Sub: Project Training

We are pleased to offer you Project Training in Implementation on following terms and conditions:

Duration	: 05-June-2023 to 05-December-2023
Designation	: Intern
Stipend	: 30000/-PM
Project Location	: Mumbai

Your immediate manager will communicate details of your role and work responsibilities in the initial weeks of you're joining the employer.

At the Project Location city, you are expected to make your own accommodation and travel arrangements, to and from your place of work.

Your working hours will be as per those of the clients or as per the offices as the case may be. You will not be entitled to any benefits and allowances as applicable to the employees of the firm.

Looking forward to having you with us, and hope you have a rewarding and challenging experience with ARCON Techsolutions Pvt Ltd.

To indicate your acceptance of this position, please sign the attached copy of this letter and return it to the office. If you have any questions please contact HR –coordinator: Madhura Pagar at +91 022 42215300.

Sincerely Yours,
For **ARCON Techsolutions Pvt Ltd.**



Bhakti Dhokre

Accepted: _____
Signature: **Ms. Sravanthi Nuthanapati**

ARCON Techsolutions Pvt. Ltd.
901, Kamla Executive Park,
Off Andheri-Kurla Road,
JB Nagar, Andheri (E),
Mumbai – 400059.

Tel. +91 22 4221 5300
Fax. +91 22 4221 5303
info@arconnet.com
(CIN: U74999MH2009PTC190703

SIST-PC-FORM-IP-2024 Date: 14/07/2023

To

The Dean- Placements and Corporate Affairs
Sathyabama Institute of Science and Technology
Chennai-600119

Dear Sir,

Sub: Seeking Permission | Internship

This is to bring to your kind notice that I, SRIMONCHAARI, have been selected for an internship this academic year. I am writing to seek your permission to attend the same. This internship program is an integral part of my education and I will utilize the same to enhance my career. I would appreciate it, if you grant me permission to be excused from the regular classes and provide "On-Duty".

I am obligated to attend all the exams and reviews conducted by the university during the internship period.

Register#: 40111264

Degree & Department: BE-CSE

Source of the internship: ~~Campus Recruitment~~ / Off campus Recruitment

Internship Role: DRONE ENGINEER

Organization Name: BIG BANG BOOM SOLUTION

Start Date: 20/06/2023

End Date: 20/12/2023

Stipend (Per Month): 10,000/-

Yours faithfully,

Student's Signature

Signature 14/07/2023

Dean- Placements and Corporate Affairs

Dr. E. JOHN BRUCE
DEAN - PLACEMENTS & CORPORATE AFFAIRS
SATHYABAMA
INSTITUTE OF SCIENCE AND TECHNOLOGY
CHENNAI-600 119.

Signature 14/7/2023

Head of the Department

Dr. L. LAKSHMANAN, M.E., Ph.D.
Professor and Head,
Dept. of CSE,
Sathyabama Institute of Science and Technology,
Chennai, India.

Dr. G. SUNDARI, M.E., Ph.D.,
DEAN (STUDENT AFFAIRS)
SATHYABAMA
INSTITUTE OF SCIENCE AND TECHNOLOGY
(DEEMED TO BE UNIVERSITY)
Jeppiaar Nagar, Rajiv Gandhi Salai

BIG BANG BOOM SOLUTIONS Pvt.Ltd.

Your Friendly Neighbourhood Defense Company

Date: 20th June 2023

Dear Mr.Srimon Chari,

We are pleased to offer you a position as an intern in our company as an "**Drone Engg**" at Big Bang Boom Solutions, one of India's most happening places for defence innovation and excellence.

We are excited to offer you a paid stipend of Rs.10,000 only (Rupees Ten Thousand only) for an initial period of six months. We hope this will be in line with our discussions and your expectations.

TERMS OF EMPLOYMENT: -

During your employment, you may have access to trade secrets and confidential business information belonging to the Company. By accepting this offer of employment, you acknowledge that you must keep all of this information strictly confidential, and refrain from using it for your own purposes or from disclosing it to anyone outside the Company. In addition, you agree that, upon conclusion of your employment, you will immediately return to the Company all of its property, equipment, and documents, including electronically stored information.

If you desire to leave, you are required to serve a notice period of one month post confirmation. It may be clearly understood that you may from time to time be transferred among the different branches of the company and within subsidiaries of the same. The Company may terminate your internship at any time, with or without cause and with or without notice.

By accepting this offer, you agree that throughout your internship, you will observe all policies and practices governing the conduct of our business and employees, including our policies prohibiting discrimination and harassment. This letter sets forth the complete offer we are extending to you, and supersedes and replaces any prior inconsistent statements or discussions or offers. It may be changed only by a subsequent written agreement.

I hope that your association with the Company will be successful and rewarding. Please indicate your acceptance of this offer by signing below and returning it to Big Bang Boom Solutions Private Limited.

Very Truly Yours,

Nadeem Iqbal Saif
Vice-President
Big Bang Boom Solutions

Office Address:
KG Pinnacle, 9th Floor, Gandhi Nagar,
Adambakkam, Chennai - 600088
GST No : 33AAHCB8159P1Z2
CIN: U74999TN2018PTC122565

Land line number
info@bigbangboom.com
www.bigbangboom.com

14-07-2023

SRIMONCHAARI

4TH YEAR BE CSE

40111264

SATHYABAMA UNIVERSITY

CHENNAI - 600119

PLACEMENT CELL

SATHYABAMA UNIVERSITY

CHENNAI – 600119

Subject: Permission Letter for Internship as a Drone Engineer

Respected Sir/Mam,

I am delighted to have been selected for the internship position as a Drone Engineer at Big Bang Boom Solution. I am writing to seek your permission to attend the internship after completing my internal exams.

I have an important exam scheduled from 9 am to 11:30 am, and once the exam concludes, I kindly request permission to join the office for the internship. I understand the commitment and responsibility that the internship entails, and I assure you that I will fully dedicate myself to the position after the exam.

I would also like to confirm that I have been informed about the stipend of $10,000 associated with the internship, and I am grateful for this opportunity.

I am confident that the internship will provide valuable experience and contribute significantly to my professional growth. Your support in allowing me to attend the internship after my exam will be greatly appreciated.

Thank you for considering my request. I look forward to your positive response.

Yours sincerely,

SRIMONCHAARI

05th December,2023

PROJECT COMPLETION CERTIFICATE

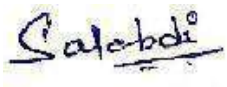
This is to certify that **Mr. Dhulipala Krishnan Murthy** has completed his internship with **Arcon Techsolutions Pvt Ltd**.

He was associated with us for a period from 05th June 2023 to 05th December,2023.

He was found hardworking & sincere during his tenure.

We at **Arcon Tech Solutions Pvt. Ltd.** wish him all the best in his future endeavors.

Sincerely
For **Arcon Tech Solutions Pvt. Ltd.**



Authorized Signatory

ARCON Techsolutions Pvt. Ltd.
901, Kamla Executive Park,
Off Andheri-Kurla Road,
J.B. Nagar, Andheri (E)
Mumbai-400059

Tel. +912242215300
Fax. +912242215303
info@arconnet.com
www.arconnet.com
(CIN: U74999MH2009PTC190703)

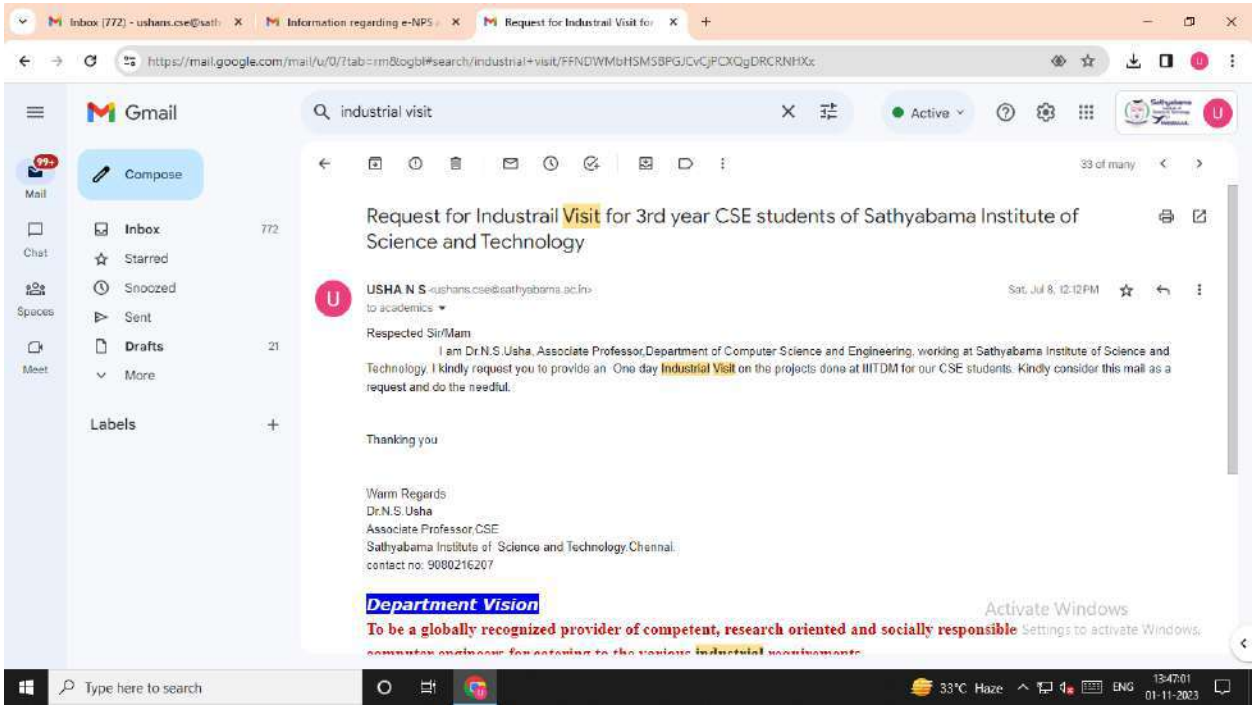
INDUSTRIAL VISIT: INDIAN INSTITUTE OF INFORMATION TECHONOLOGY DESIGN AND MANFACTURING (IIITDM), Kancheepuram

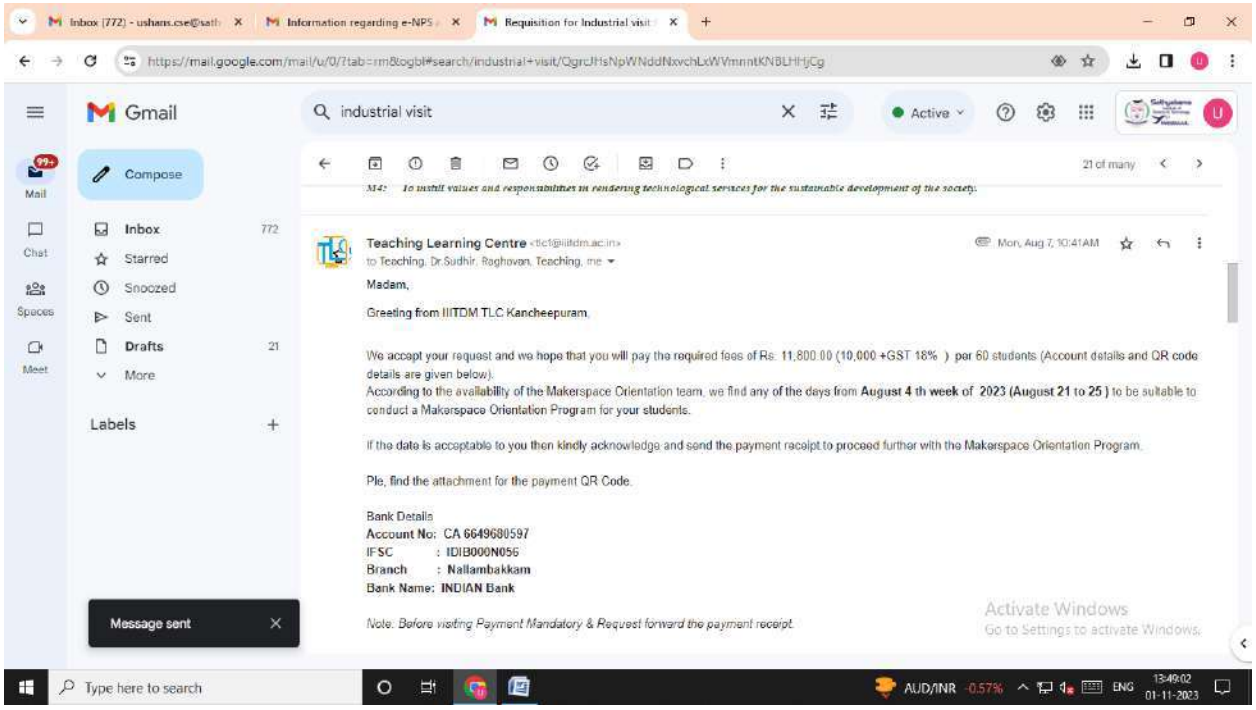
DATE OF VISIT: 23.8.2023

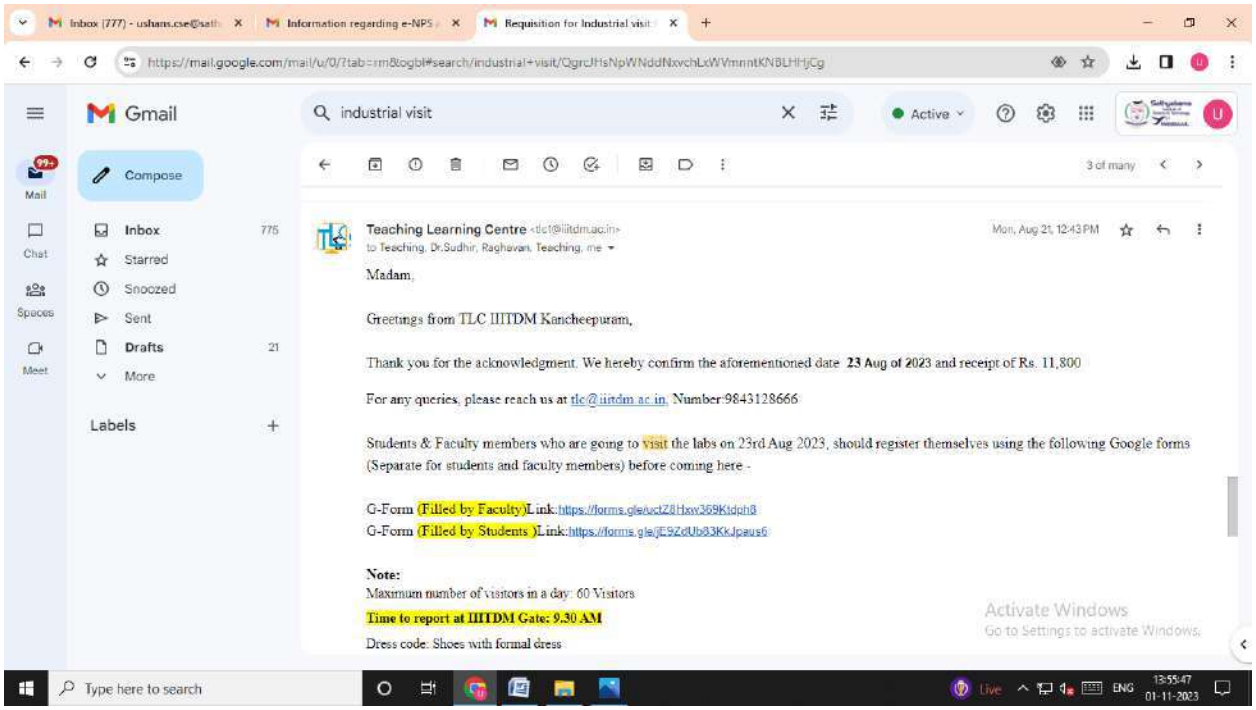
YEAR/SEC: III/E3

TOTAL STUDENTS: 56

FACULTY INCHARGES: Dr. N.S.USHA, Ms.M.VANATHI




Inbox (772) - ushans.cse@sath
Information regarding e-NPS
Requisition for Industrial visit
https://mail.google.com/mail/u/0/?tab=rm&ogbl#search/industrial+visit/QgrcJHsNpWNddNxvchLxWVmnntKNBLHHjCg
Gmail
industrial visit
Active
Compose
Inbox 772
Starred
Snoozed
Sent
Drafts 21
More
Labels
Message sent
21 of many
M4: To instill values and responsibilities in rendering technological services for the sustainable development of the society.
Teaching Learning Centre <tlc1@iiitdm.ac.in>
to Teaching, Dr.Sudhir, Raghavan, Teaching, me
Mon, Aug 7, 10:41 AM
Madam,
Greeting from IIITDM TLC Kancheepuram.
We accept your request and we hope that you will pay the required fees of Rs. 11,800.00 (10,000 +GST 18%) per 60 students (Account details and QR code details are given below).
According to the availability of the Makerspace Orientation team, we find any of the days from August 4 th week of 2023 (August 21 to 25) to be suitable to conduct a Makerspace Orientation Program for your students.
If the date is acceptable to you then kindly acknowledge and send the payment receipt to proceed further with the Makerspace Orientation Program.
Pls, find the attachment for the payment QR Code.
Bank Details
Account No: CA 6649680597
IFSC : IDIB000N056
Branch : Nallambakkam
Bank Name: INDIAN Bank
Note: Before visiting Payment Mandatory & Request forward the payment receipt.
Activate Windows
Go to Settings to activate Windows.
Type here to search
AUD/INR -0.57%
ENG
13:49:02
01-11-2023


Inbox (777) - ushans.cse@sath
Information regarding e-NPS
Requisition for Industrial visit
https://mail.google.com/mail/u/0/?tab=rm&ogbl#search/industrial+visit/QgrcJHsNpWNddNxvchLxWVmnntKNBLHHjCg
Gmail
industrial visit
Active
Compose
Inbox 775
Starred
Snoozed
Sent
Drafts 21
More
Labels
3 of many
Teaching Learning Centre <tlc1@iiitdm.ac.in>
to Teaching, Dr.Sudhir, Raghavan, Teaching, me
Mon, Aug 21, 12:43 PM
Madam,
Greetings from TLC IIITDM Kancheepuram,
Thank you for the acknowledgment. We hereby confirm the aforementioned date 23 Aug of 2023 and receipt of Rs. 11,800
For any queries, please reach us at tlc@iiitdm.ac.in, Number:9843128666
Students & Faculty members who are going to visit the labs on 23rd Aug 2023, should register themselves using the following Google forms (Separate for students and faculty members) before coming here -
G-Form (Filled by Faculty)Link:https://forms.gle/ActZ8Hxw369KtdpN8
G-Form (Filled by Students)Link:https://forms.gle/jE9ZdUb83KkJpaus6
Note:
Maximum number of visitors in a day: 60 Visitors
Time to report at IIITDM Gate: 9.30 AM
Dress code: Shoes with formal dress
Activate Windows
Go to Settings to activate Windows.
Type here to search
Live
ENG
13:55:47
01-11-2023




INDIAN INSTITUTE OF INFORMATION TECHNOLOGY DESIGN AND MANUFACTURING
GPS Map Camera
Vengadamangalam, Tamil Nadu, India
R4QP+RV3 SENATE HALL, INDIAN INSTITUTE OF INFORMATION TECHNOLOGY, Vengadamangalam, Tamil Nadu 600127, India
Lat 12.839717°
Long 80.13745°
23/08/23 02:22 PM GMT +05:30
Google

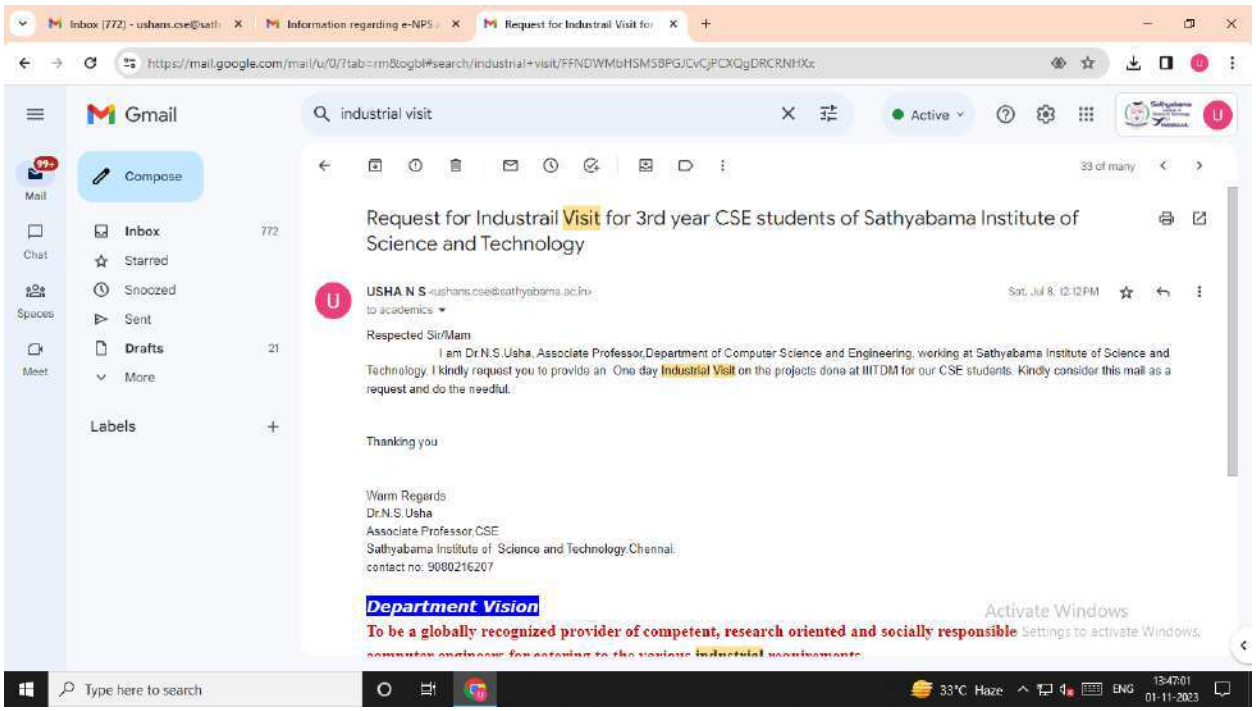
INDUSTRIAL VISIT: INDIAN INSTITUTE OF INFORMATION TECHONOLOGY DESIGN AND MANFACTURING (IIITDM),Kancheepuram

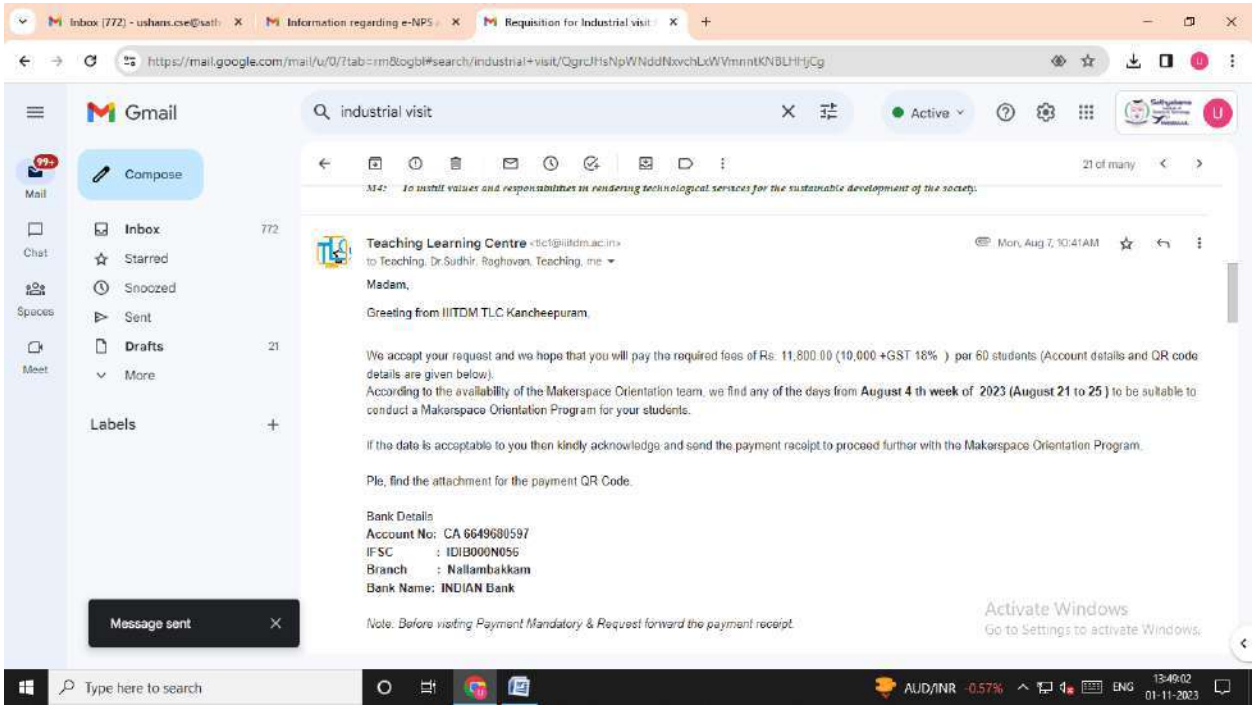
DATE OF VISIT: 31.8.2023

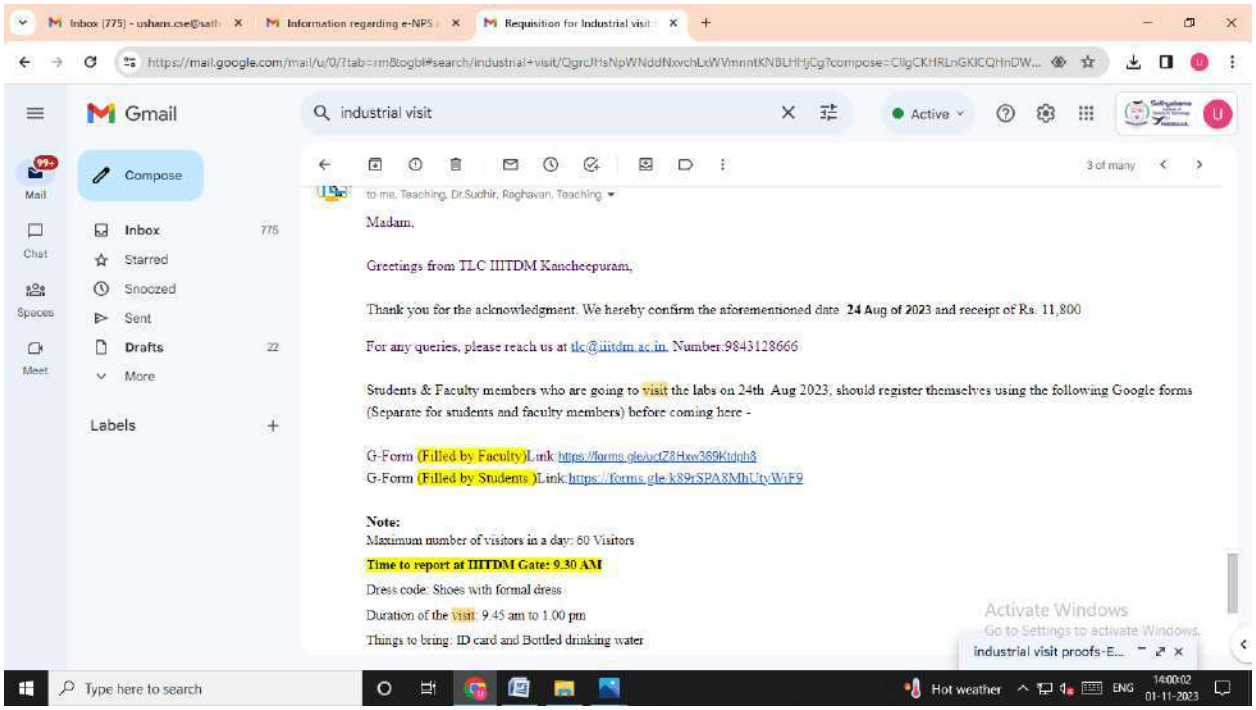
YEAR/SEC: III/E4

TOTAL STUDENTS: 60

FACULTY INCHARGES: Dr. N.S.USHA, Ms. D. AISHWARYA




Inbox (772) - ushans.cse@sath
Information regarding e-NPS
Requisition for Industrial visit
https://mail.google.com/mail/u/0/?tab=rm&ogbl#search/industrial+visit/QgrcJHsNpWNddNxvchLxWVmnntKNBLHHjCg
Gmail
industrial visit
Active
Compose
Inbox 772
Starred
Snoozed
Sent
Drafts 21
More
Labels
Mail
Chat
Spaces
Meet
21 of many
M4: To instill values and responsibilities in rendering technological services for the sustainable development of the society.
Teaching Learning Centre <tlc1@iiitdm.ac.in>
to Teaching, Dr.Sudhir, Raghavan, Teaching, me
Mon, Aug 7, 10:41 AM
Madam,
Greeting from IIITDM TLC Kancheepuram.
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Pls, find the attachment for the payment QR Code.
Bank Details
Account No: CA 6649680597
IFSC : IDIB000N056
Branch : Nallambakkam
Bank Name: INDIAN Bank
Note: Before visiting Payment Mandatory & Request forward the payment receipt.
Message sent
Activate Windows
Go to Settings to activate Windows.
Type here to search
AUD/INR -0.57%
ENG
13:49:02
01-11-2023


Inbox (775) - ushans.cse@sath
Information regarding e-NPS
Requisition for Industrial visit
https://mail.google.com/mail/u/0/?tab=rm&ogbl#search/industrial+visit/QgrcJHsNpWNddNxvchLxWVmnntKNBLHHjCg?compose=CllgCKHRLnGKlCQHnDW...
Gmail
industrial visit
Active
Compose
Inbox 775
Starred
Snoozed
Sent
Drafts 22
More
Labels
Mail
Chat
Spaces
Meet
3 of many
to me, Teaching, Dr.Sudhir, Raghavan, Teaching
Madam,
Greetings from TLC IIITDM Kancheepuram,
Thank you for the acknowledgment. We hereby confirm the aforementioned date 24 Aug of 2023 and receipt of Rs. 11,800
For any queries, please reach us at tlc@iiitdm.ac.in, Number:9843128666
Students & Faculty members who are going to visit the labs on 24th Aug 2023, should register themselves using the following Google forms (Separate for students and faculty members) before coming here -
G-Form (Filled by Faculty)Link: https://forms.gle/actZ8Hxw369Ktdqh8
G-Form (Filled by Students)Link:https://forms.gle/k89rSPA8MhUtyWiF9
Note:
Maximum number of visitors in a day: 60 Visitors
Time to report at IIITDM Gate: 9.30 AM
Dress code: Shoes with formal dress
Duration of the visit: 9.45 am to 1.00 pm
Things to bring: ID card and Bottled drinking water
Activate Windows
Go to Settings to activate Windows.
industrial visit proofs-E...
Type here to search
Hot weather
ENG
14:00:02
01-11-2023


INDIAN INSTITUTE OF INFORMATION TECHNOLOGY DESIGN AND MANUFAC
GPS Map Camera
Agaramthen, Tamil Nadu, India
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Special Issue on: Scalable Computing in Cloud Infrastructure for Smart Networking Management and Cybersecurity

Introduction

Scalable computing in cloud infrastructure is a critical component in advancing smart networking management and bolstering cybersecurity measures. The dynamic and ever-evolving nature of smart networking demands a scalable architecture that can efficiently handle the increasing volume and complexity of data traffic. Cloud infrastructure, with its elasticity and on-demand resource allocation, provides a scalable solution to accommodate the growing demands of smart networks. In the realm of smart networking management, scalability ensures the seamless integration of new devices, services, and applications into the network ecosystem. As the number of connected devices continues to rise, a scalable cloud infrastructure allows for the efficient deployment of additional computing resources, ensuring that the network can adapt to fluctuations in demand without compromising performance or reliability. This adaptability is essential for optimizing the functionality of smart networks and facilitating the rapid deployment of innovative services.

Moreover, scalable computing plays a pivotal role in enhancing cybersecurity in smart networking environments. The ability to scale resources dynamically allows for the implementation of robust security measures, such as intrusion detection systems, firewalls, and encryption protocols, without causing a degradation in network performance. As cyber threats become increasingly sophisticated, a scalable cloud infrastructure enables the quick deployment of security updates and patches to safeguard against evolving vulnerabilities. However, challenges exist in achieving seamless scalability in cloud-based smart networking and cybersecurity. Ensuring interoperability across diverse devices and systems, as well as addressing potential latency issues during scaling events, requires careful consideration. Additionally, the effective management of data privacy and compliance concerns remains crucial in the context of cloud-based solutions. Scalable computing within cloud infrastructure is a cornerstone for the efficient management of smart networks and the implementation of robust cybersecurity measures. As the landscape of smart networking continues to evolve, the scalability of cloud solutions will be instrumental in meeting the demands of dynamic and secure digital ecosystems. Efforts to address challenges and refine scalable cloud architectures will undoubtedly shape the future of smart networking management and cybersecurity. A special issue of this journal will combine advanced cyberinfrastructure techniques and cloud infrastructure and smart networking management to address the diverse needs and challenges that cyberinfrastructure face today, as well as security threats. We invite both academic and industrial authors to submit original manuscripts on advanced cyberinfrastructure applications and security threats.

Recommended topics (but not limited to)

- Scalable computing systems in cyber resilience for cyber security
- Scalable computing in management of hardware and software resources of cloud infrastructure for cybersecurity
- Scalable computing in virtual networking and vulnerabilities for cloud computing applications
- Scalable computing in intelligent intrusion detection system of malicious activities of cloud computing for cyberinfrastructure
- Scalable computing in software defined internet of things for network function virtualization and cyberinfrastructure
- Scalable computing in multi factor authentication for cyber infrastructure
- Scalable computing in resilient and dependability management of distributed environments for cyberinfrastructure
- Scalable computing in middleware architecture for cyber attacks detection of IoT ecosystem
- Scalable computing in software defined network architecture for smart grid resilience and service attacks
- Scalable computing in cloud and IoT secure integration for cyber infrastructure

Important dates

Submission deadline: 31 July, 2024

Authors notification: 31 October, 2024

Revision submission: 31 December, 2024

Submission guidelines

Original and unpublished works on any of the topics aforementioned or related are welcome. The SCPE journal has a rigorous peer-reviewing process and papers will be reviewed by at least two referees. All submitted papers must be formatted according to the journal's instructions, which can be found here (http://www.scpe.org/index.php/scpe/about/submissions#authorGuidelines).

During submission please select a Special Issue that you want to submit to and provide this information in the Comments for the Editor field.

Guest Editors

Lead: Dr. Francesco Flammini (https://scholar.google.com/citations?user=37yKeSQAAAAJ&hl=sv), Full Professor of Computer Science, School of Innovation, Design and Engineering, Mälardalen University, Sweden, email: francescoflammini@ieee.org (mailto:francescoflammini@ieee.org)

Francesco Flammini got with honors his master (2003) and doctoral (2006) degrees in Computer Engineering from the University of Naples Federico II, Italy. He is currently a Professor of Computer Science with a focus on Cyber-Physical Systems at Mälardalen University (Sweden). He has been a Senior Lecturer and the chair of the Cyber-Physical Systems group at Linnaeus University (Sweden).

He has worked for almost 15 years in private and public companies, including Ansaldo STS (now Hitachi Rail) and IPZS (Italian State Mint and Polygraphic Institute), on large international projects addressing intelligent transportation systems, critical infrastructure protection and cybersecurity, as a technical leader and unit head. He is an IEEE Senior Member and the Chair of the IEEE SMC Technical Committee on Homeland Security. He is also a member of the ERCIM Working Group on Formal Methods for Industrial Critical Systems (FMICS), He has (co)authored 100+ scientific publications and he has served as a chair, invited speaker, steering/program committee member, and editor for several international conferences and journals. He has been an adjunct professor and guest lecturer of computer science, software engineering and cybersecurity at the University of Maryland University College (UMUC) Europe, Second University of Naples (Italy), University of Naples Federico II (Italy), University Campus Biomedico of Rome (Italy) and University of Girona (Spain).

Dr. Theo Dimitrakos (https://scholar.google.com/citations?user=OKWDwnEAAAAJ&hl=en), Professor of Computer Science, School of Computing, University of Kent, Canterbury, UK, email: t.dimitrakos@kent.ac.uk (mailto:t.dimitrakos@kent.ac.uk)

Theo Dimitrakos is the head of network function virtualization and cloud security research activities with the Huawei Technologies, Germany. He is also a professor of computer science with the University of Kent, United Kingdom. His research expertise includes cloud security, cybersecurity, and information assurance. Prior joining Huawei, he was a chief security researcher at BT labs, United Kingdom. He has authored 7 books, more than 70 scientific papers and more than 40 patents. I am interested in creating, directing and delivering impactful innovation from senior leadership or advisory roles. I have over 25 years of experience in Information and Communications Technology including 20 years of experience in Trust and Information Security. I combine deep technical knowledge with strong leadership and people management skills and with a solid international reputation as a thought-leader who can also manage large-scale international research collaborations and innovation delivery projects. My expertise and thought-leadership experience spans a wide range of topics such as Enterprise and Cloud Security, Cybersecurity, Consumer Device & IoT Security, Identity, SOA and Web Services, Next Generation Network Security (including SDN and NFV security), Privacy and Data Protection, Applied Cryptography, Information Hiding (including highly robust imperceptible watermarks), Uncertainty Reasoning and Trust Management, Formal Methods. At Huawei Technologies, I am a lead expert in Trustworthiness Theory, Technology and Engineering Lab (TTTE) based in Munich Germany and of the Cyber Security and Privacy Protection Lab (CSPL) where I lead global programs of research and innovation activities in Data Security and in Identity & Access Management. At the University of Kent I chair the Scientific Advisory Board of the Kent Interdisciplinary Research Centre in Cyber Security. While working at BT, I developed the innovation strategy and new technologies roadmap on virtualization and cloud security and I directed the delivery of technological and business innovations in close collaboration with the Security Leadership Team and the IT Services and Security Portfolio product teams. Through my participation in expert groups and strategy boards, I have advised European Agencies, such as ENISA, industry forums such as ISF and CSA and the European Commission on both technological development and policy making issues.

Dr. Mehdi Sookhak (https://scholar.google.com.my/citations?user=tPq6PNYAAAAJ&hl=en), Assistant Professor of Computer Science Department of Computing Sciences Texas A&M University-Corpus Christi, United States, email: mehdi.sookhak@tamucc.edu (mailto:mehdi.sookhak@tamucc.edu)

Mehdi Sookhak (M'12, SM'19) received the Ph.D. degree in computer science, major in information security, from the University of Malaya (U.M.) in 2015. From 2012 to 2015, he was with the Center of Mobile Cloud Computing Research (C4MCCR), U.M. as a research assistant. From 2016 to 2017, he was with Carleton University, Canada, as a Post- doctoral Fellow. In 2017 He joined Arizona State University and then in 2019 he joined Illinois State University as an assistant professor of cybersecurity. He is currently working as an Assistant Professor of computer science in Texas A&M University-Corpus Christi, Tx, USA. He has authored more than 50 articles in high-ranking journals and conferences. He is on the Editorial Board of several ISI journals, including Vehicular Communications, Electronics, and IEEE Access. He also served as a chair of several conferences, such as IEEE WTS and IEEE ICC. His areas of interest include cloud and mobile cloud computing, fog/edge computing, vehicular networks, Blockchain, computation outsourcing, machine learning and AI.

Dr. Amir Javadpour (https://scholar.google.com/citations?user=c3HYEEYAAAAJ&hl=en), Faculty of Information Technology and Electrical Engineering University of Oulu, Oulu, Finland, email: a.javadpour87@gmail.com (mailto:a.javadpour87@gmail.com)

Amir Javadpour, with a solid academic background, earned his MSc in Medical Information Technology Engineering from the University of Tehran, Iran, in 2014. He continued his academic journey, achieving a Ph.D. in Computer Science (Mathematics/Cybersecurity) from Guangzhou University, China, in 2020. Amir has demonstrated an impressive research portfolio throughout his academic and professional career. He has collaborated with esteemed colleagues to publish numerous papers in highly regarded journals and conferences. These publications cover a wide array of topics, showcasing his expertise in Cybersecurity, Cloud Computing, Software-Defined Networking (SDN), Big Data, Intrusion Detection Systems (IDS), the Internet of Things (IoT), Moving Target Defence (MTD), Machine Learning (ML), and optimization algorithms. Amir's contributions extend beyond publishing; he has also been a diligent reviewer and author for reputable venues, including IEEE Transactions on Cloud Computing, IEEE Transactions on Network Science and Engineering, ACM Transactions on Internet Technology, and various journals under Springer and Elsevier. Additionally, he actively engages as a Technical Program Committee (TCP) member for several conferences. His engagement in international collaborations is noteworthy, particularly with European consortiums in funded projects such as Inspire-5Gplus and Rigourous. These collaborations have led to significant contributions, with papers published in top-tier journals and conferences like Globecom, IEEE TII, IEEE TIFS, IEEE TNSM, and ACM TOSN. Amir's commitment to advancing research extends to mentoring and supervising Master and Doctoral students. This experience has instilled confidence in his ability to lead a research group and conduct independent research. He remains passionate about broadening his research horizon, continually seeking to extend the boundaries of knowledge and contribute meaningfully to the field.

Dr. G. Nagarajan (https://scholar.google.co.in/citations?user=Kwtk4W0AAAAJ&hl=en), Professor of Computer Science and Engineering, Sathyabama Institute of Science and Technology, India, email: gnagarajan.cse@sathyabama.ac.in (mailto:gnagarajan.cse@sathyabama.ac.in)

G. Nagarajan (Senior Member, IEEE) received the B.E. degree in electrical and electronics engineering from MS University, in 2000, the M.E. degree in applied electronics from Anna University, in 2005, and the M.E. and Ph.D. degrees in computer science and engineering from Sathyabama University, in 2007 and 2015, respectively. He is currently a Faculty Member of the Department of Computer Science and Engineering, School of Computing, Sathyabama Institute of Science and Technology, Chennai,

India. He has published more than 70 research articles in peer-reviewed journals, such as IEEE conference, ACM, Springer-Verlag, Inderscience, and Elsevier. He also has contributed 15 book chapters thus far for various technology books. He has authored and edited three books thus far and is focusing on some of the emerging technologies, such as the IoT, edge/fog computing, artificial intelligence (AI), data science, blockchain, digital twin, and 5G. His current research interests include computer vision, the IoT, 5G, edge/fog computing, artificial intelligence, machine learning, and wireless sensor networks.

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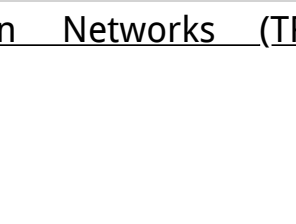
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Multimodal low resource language information processing (MLRLIP) has grown in prominence in recent years, notably in the field of computer vision. Deep multimodal low resource language information processing is becoming increasingly prevalent as multimodal data streams and deep learning algorithms evolve. It is required to model multimodal information so that it may be uniformly evaluated and processed. The unstructured data that we encounter in the real world often includes visuals and textual content, which are also known as modalities. Deep learning researchers are still drawn to the challenge of identifying significant patterns from large amounts of data. Multimodal interaction systems (MIS) integrate visible information (which include photos, text, and drawings) with voice, gestures, and different modalities to provide versatile and effective communication tactics, permitting individuals to pick out from loads of interplay modalities. With the help of multiple input modes integrated into mobile devices, they enable users to benefit from the natural approach used in human communication, overcoming barriers to adopting mobile devices for value-added services.

Game environments are applications that can be used in a collaborative and participatory way to increase user engagement. Gaming settings provide a lot of potential in terms of improving people's engagement and cooperation. Players engage with games in a number of ways, with the content, format, and modality of the game changing depending on the player's preferences. Multimodal learning makes use of information fusion techniques based on feature-level fusion or score-level fusion. Deep learning has been used in games for a wide range of purposes, including agent decision-making based on an abstraction of the game state or utilising the pixels of the real screen as input. When the depth of a deep convolutional neural network is great enough, it may be used to estimate any continuous function to an arbitrarily high level of accuracy.

List of potential topics include but are not limited to the following:

- Multimodal low resource language information processing and techniques for real-world game-interactions development
- Multimodal low resource language information processing and algorithm's in game-human interaction for accurate recognition and analysis in real-time multi-target applications
- Intelligent algorithms for pattern recognition and data processing in game-human interaction
- Algorithms to optimize multi-modal visual restoration, visual fusion, and visual control for game human interactions
- Multimodal low resource language learning analytics in the game system to analyze complex processes
- Applications and limitations of multimodal low resource language information processing in human-game interaction
- Multimodal deep learning-based models for enhancing interactions in gaming

- Advances in multimodal low resource language information processing in games for managing complex interactions
- Deep convolutional networks and low resource language information processing methods for efficient image filtering

Important Dates

- Submissions deadline: September 30, 2023
- First-round review decisions: November 25, 2023
- Deadline for revision submissions: January 25, 2024
- Notification of final decisions: March 01, 2024
- Tentative publication: Late 2024

Submission Information

Please refer https://dl.acm.org/journal/tallip/author-guidelines and select “Special Issue on Multimodal low resource language information processing in Visual Detection, Restoration and Fusion for Game Human Interaction” in the TALLIP submission site.

For questions and further information, please contact **Dr. G. Nagarajan, nagarajangovidan@gmail.com.**

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CERTIFICATE

This is to certify that Ms. Sharmila. D has worked on the project entitled **'Separation of Pb^{2+} Ions Using Graphene Oxide-Xylenol Orange Composite from Aqueous Systems'** under my supervision for the partial fulfillment of the requirement for award of Degree of Master of Science in Chemistry, Sathyabama Institute Of Science And Technology, Chennai. The project work was carried out at ACSS, ACSD, MC&MFCG, IGCAR during the period of 8th January 2024 to 1st March 2024.

01/03/2024

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BONAFIDE CERTIFICATE

This is to certify that this Project Report is the bonafide work of SHARMILA.D (42910020) who carried out the project entitled **SEPARATION OF Pb^{2+} IONS USING GRAPHENE OXIDE-XYLENOL ORANGE COMPOSITE FROM AQUEOUS SYSTEM** under our supervision from 08.01.2024 to 01.03.2024.

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Submitted for Viva voce Examination held on 22-04-2024

22/4/24
Internal Examiner

22/04/2024
External Examiner

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Submitted for Viva-voce Examination held on 22-04-2024

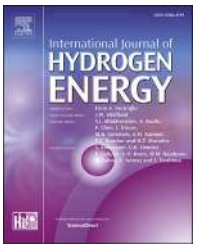
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Influence of nanopores volumes in hydrogen absorption properties of B_4C and WC carbide-derived carbon nanomaterials

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HIGHLIGHTS

- CDC nP Nanomaterials suggested hydrogen generation towards sustainable environment.
- A-B_4C-CDC nP, B_4C CDC nP and WC-CDC nP Nanomaterials tested in N_2 & H_2 absorption.
- BET surface area of A-B4C-CDC nP material after treated was 2240 m^2/g.
- Total pore volume is a highly influencing factor in absorption of Hydrogen.
- All CDC nP Nanomaterials characterized by SAXS, NLDFT, XRD, TEM, FTIR, EDS & SEM.

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ABSTRACT

Sustainable energy development is needed to meet rising energy demands and reduce fossil fuel risks. Hydrogen generation is a crucial study area for sustainable energy. This study examines hydrogen adsorption on carbide-derived carbon nano-porous (CDC nP) nanomaterials. B_4C CDC nP and WC-CDC nP Nanomaterials were produced by reacting chlorine gas with boron carbide (B_4C) and tungsten carbide (WC) at 1200 °C and 980 °C in a high-pressure quartz stationary bed reactor. A CDC nP Nanomaterials was activated by heating it to 900 °C for 1 h in hydrogen to produce A-B_4C-CDC nP Nanomaterials, which

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Deep insights into kinetics, optimization and thermodynamic estimates of methylene blue adsorption from aqueous solution onto coffee husk (Coffee arabica) activated carbon

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ARTICLE INFO

Keywords:
Waste coffee husk
Adsorption
MB dye
Thermodynamics
Equilibrium
Kinetics

ABSTRACT

In the current study, an attempt was made to synthesize coffee husk (CH) activated carbon by chemical modification approach (sulphuric acid-activated CH (SACH) activated carbon) and was used as a valuable and economical sorbent for plausible remediation of Methylene blue (MB) dye. Batch mode trials were carried out by carefully varying the batch experimental variables: SACH activated carbon (SACH AC) dosage, pH, initial dye concentration, temperature, and contact time. The optimum equilibrium time for adsorption by SACH activated carbon was obtained as 60 min, and the maximum adsorption took place at 30 °C. Morphological and elemental composition, crystallinity behaviour, functional groups, and thermal stability were examined using SEM with EDX, XRD, FTIR, BET, TGA, and DTA and these tests showed successful production of activated carbon. The outcomes showed that chemical activation enhanced the number of pores and roughness which possibly maximized the adsorptive potential of coffee husk. The Box-Benken design (BBD) was used to optimize the MB dye adsorption studies and 99.48% MB dye removed at SACH AC dosage of 4.83 g/L at 30 °C for 60 min and pH 8.12, and the maximum adsorption was yielded for sulphuric acid-activated coffee husk carbon carbon with 88.1 mg/g maximum MB adsorption capacity. Langmuir- Freundlich model deliberately provided a better fit to the equilibrium data. The SACH AC-MB dye system kinetics showed a high goodness-of-fit with pseudo second order model, compared to other studied models. Change in Gibbs's free energy (ΔG^o) of the system indicated spontaneity whereas low entropy value (ΔS^o) suggested that the removal of MB dye on the SACH activated carbon was an enthalpy-driven process. The exothermic nature of the sorption cycle was affirmed by the negative enthalpy value (ΔH^o). The adsorptive-desorptive studies reveal that SACH AC could be restored with the maximum adsorption efficiency being conserved after the fifth cycles. Overall, the outcomes revealed that sulphuric acid-activated coffee husk activated carbon (SACH AC) can be used as prompt alternative for low-cost sorbent for treating dye-laden synthetic wastewaters.

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Biochar from *Manihot esculenta* stalk as potential adsorbent for removal of reactive yellow dye

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ARTICLE INFO

Keywords:
Reactive yellow dye
Manihot esculenta Stalk
Biochar
Pyrolysis
Adsorption

ABSTRACT

Textile effluent treatment is crucial for a cleaner and safer community. The purpose of this study is to utilize biochar prepared from *Manihot esculenta* stalk to remove reactive yellow dye through Pyrolysis at 350 °C for 210 min. The effect of quantity of adsorbent, pH values of the adsorbate solution experimented, contact time required, starting dye concentration, current temperature of the solution, speed of agitation, as well as size of the particle on reactive yellow dye removal was examined using biochar through batch trials. At an equilibrium period of 25 min, pH of 7, bio-char dosage of 2 g, temperature of 25 °C, agitation speed of 150 rpm, as well as particle size of 231 μm, 86% of the dye could be removed with highest adsorption capacity of 53.47 mg/g. Pseudo-first order type kinetics in addition to the Langmuir isotherm model were set up to finest fit the adsorption model of reactive yellow dye onto biochar from *M. esculenta* stalk. The process is chemisorption, exothermic, feasible, and spontaneous, as it is predicted by the thermodynamically negative enthalpy as well as entropy of adsorption values. The spent *M. esculenta* stalk biochar was reused for six cycles of adsorption at same optimal process conditions and adsorption capacity was found to be insignificant up to fourth cycle. Also, *M. esculenta* biochar was characterized through scanning electron microscopy (SEM), energy-dispersive X-ray analysis (EDAX) and Fourier Transform Infrared Spectroscopy (FTIR) for morphology, elemental composition, and functional groups respectively. So, the *M. esculenta* stalk biochar could be an active adsorbent for elimination of reactive dye from the solution of dye.

1. Introduction

Wastewater treatment is important for environmental protection, public health, resource conservation, economic benefits and compliance with regulations [1]. Wastewater contains harmful pollutants and disease-causing pathogens that have negative impact on the environment. In addition, wastewater treatment could create jobs and stimulate economic growth in the form of new businesses and industries focused on environmental protection resource recovery [2,3]. Wastewater treatment is often required by law to ensure compliance with regulations and standards [4]. Treating wastewater helps to remove the harmful substances and prevent them from polluting waterways. Also, it could remove pathogens and reduce the risk of disease transmission. [5,6].

The various wastewater treatment methods include coagulation, flocculation, precipitation, sedimentation, adsorption, oxidation, membrane techniques, etc. [7]. Coagulation, flocculation, and sedimentation are physicochemical treatment methods that involve adding chemicals to the wastewater to create aggregates of solids that could be removed by gravity [8]. Membrane techniques, on the other hand, uses a semi-permeable membrane to remove particles from the treated water. They are generally more effective at removing smaller particles but could be more expensive than physicochemical treatment methods [9,10]. In general, the most appropriate wastewater treatment technique depends on the nature of the wastewater being treated and the desired treatment outcomes [11]. Factors like cost, efficiency, space requirements, and environmental impact should also be taken into consideration [12]. A method that could fulfill above criteria is adsorption.

Adsorption is an important process in wastewater treatment because it could effectively remove pollutants from wastewater by attaching them to a surface [13]. Adsorption could effectively remove varied

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Metal organic framework anchored onto biowaste mediated carbon material (rGO) for remediation of chromium (VI) by the photocatalytic process

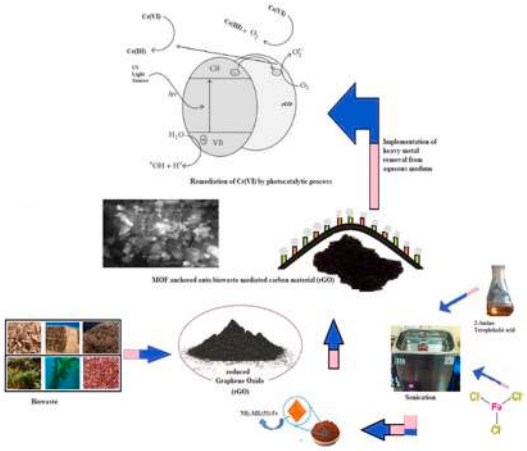
S. Sathish [a,**], Satish Kumar.K [a], Siddharth U [a], D. Prabu [a], M. Karthikeyan [a], Venkatesan D [a], Supriya S [b], Andal P [c], Omirserik Baigenzhenov [d], J.Aravind Kumar [e,*]

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HIGHLIGHTS

- For improved Cr(VI) removal, the design of a photocatalytic material was discussed.
- Synthesis of MOF@rGO as a photocatalyst was presented.
- Cr(VI) photocatalytic degradation mechanisms and the kinetics were scrutinized.
- Effect of process parameters and the optimization were critically addressed.
- The synergistic effect of MOF@rGO greatly improved the separation of h^+-e^- pairs.

GRAPHICAL ABSTRACT



ARTICLE INFO

Handling editor: Sagadevan Suresh

Keywords:
Biowaste
Carbon surface
Solvo-thermal
Synthesis

ABSTRACT

Groundwater contaminated with hexavalent chromium Cr(VI) causes serious health concerns for the ecosystem. In this study, a hybrid amino functionalized MOF@rGO nanocatalyst was produced by utilization of a biowaste mediated carbon material (reduced graphene oxide; rGO) and its surface was modified by in situ synthesis of a nanocrystalline, mixed ligand octahedral MOF containing iron metal and NH_2 functional groups and the prepared composite was investigated for Cr (VI) removal. The photocatalytic degradation of Cr(VI) in aqueous solutions was carried out under UV irradiation. Using a batch mode system, the effect of numerous control

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Noteworthy synthesis strategies and applications of metal-organic frameworks for the removal of emerging water pollutants from aqueous environment

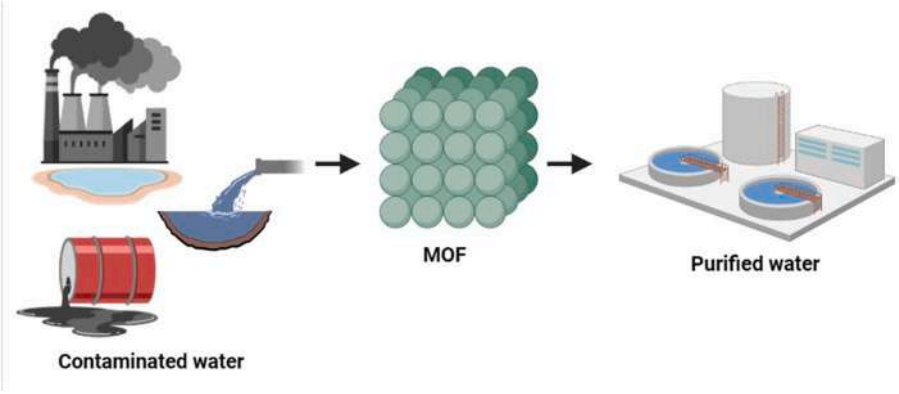
Sathish Sundararaman [a], Adhilimam [a], Jobin Chacko [a], Prabu D [a], Karthikeyan M [a], J. Aravind Kumar [b,*], Saravanan A [c], Thamarai P [c], Rajasimman M [d], Dmitry Olegovich Bokov [e,f]

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HIGHLIGHTS

- Metal-organic frameworks (MOFs) have emerged as promising materials for removing contaminants.
- MOF's are versatile owing to its stability, better flexibility, porous nature and surface area.
- MOF's possess extraneous applications in fluid separation, contaminant treatment, gas storage, etc.,
- This review focuses on implications of MOF's in water pollution technology and purification processes in depth.

GRAPHICAL ABSTRACT



ARTICLE INFO

Handling editor: Charuvila T Aravindakumar

Keywords:
Metal organic frameworks
Water treatment
Emerging pollutants

ABSTRACT

17 global Sustainable Development Goals (SDGs) were established through the adoption of the 2030 Agenda for Sustainable Development by all United Nations members. Clean water and sanitation (SDG 6) and industry, innovation, and infrastructure (SDG 9) are the SDGs focus of this work. Of late, various new companies delivering metal-organic frameworks (MOFs) have blossomed and moved the field of adsorption utilizing MOFs to another stage. Inside this unique circumstance, this article aims to catch recent advancements in the field of MOFs and the utilizations of MOFs relate to the expulsion of arising contaminations that present huge difficulties to water quality because of their steadiness and possible damage to environments and human wellbeing. Customary water

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Original article

Waste shrimp shell mediated Chitosan-Magnesium Oxide nanocomposite: Synthesis, characterization and exploitation towards acenaphthene removal from aqueous solution

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ARTICLE INFO

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MgO/Chitosan, Poly-aromatic hydrocarbons
Acenaphthene, Sorption, wastewater

ABSTRACT

Keeping the sustainability concept in view, a green, biocompatible, eco-friendly, and advantageous nanocomposite was fabricated by impregnation of chitosan derived from waste shrimp shells onto Magnesium oxide nanoparticle (MgO) for exploiting in acenaphthene (ACN) removal from wastewater resources. The tested nanocomposite showed a high potential for ACN adsorption at pH 5.5. The thermodynamic evaluations laid the spontaneity nature of the process ($\Delta G \leq$-25.93 kjmol^{-1}) bearing a ΔH value of 12.701 kjmol^{-1} which shows a favorable physisorption phenomenon. Kinetic evaluations demonstrated that the studied adsorption system conforms to pseudo-first order model to a greater extent. Other kinetic evaluations (Dumwald–Wagne/ Boyd model) revealed the important role of film diffusion in such an adsorption system, especially in the initial stages of the process. The equilibrium scrutinization under isothermal conditions displayed that the process has proceeded via mono-layer adsorption with a q_{max} value of 116.88 mg/g (at 298 K), for which Langmuir model showed a high goodness-of-fit. Overall, the new green adsorbent was highly advantageous in removal of ACN, and hence it is worth to be checked for the possibility of removing similar contaminants from polluted agricultural wastewater resources.

1. Introduction

Contamination of water resources is a universal issue, owing to industrial, municipal, and agricultural activities. In an emergency to overcome the water scarcity issue, there is a demand to apply efficient and sustainable methods to reach enhanced water supply levels beyond the traditional routes [5,6]. Drastic industrial and urban expansion have raised enormous anthropogenic activities which, beside the natural sources, cause emission of pollutants, like poly-aromatic hydrocarbons (PAHs), into the environment [45]. PAHs released into environment spring from natural resources, like forest fire, volcanic eruption, and brush fire, as well as from man-made activities, like oil spilling, partial combustion of fuels, other industrial spillages, which are of huge concern at present around the universe [1]. The extraneous characteristics of PAHs comprise heterocyclic ring arrangements, thermo-stability and hydrophobicity which rendered them recalcitrant and super persistent in the ecosystem [48]. They are much toxic, carcinogenic, mutagenic and immune-toxicogenic to several life types. PAHs tend to exist in aquatic sources as a result of i) fossil fuel-incomplete combustion, ii) exploitation/utilization of petroleum and iii) biogenic sources in

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1110-0168/© 2024 The Author(s). Published by Elsevier BV on behalf of Faculty of Engineering, Alexandria University This is an open access article under the CC BY-NC-ND license (http://creativecommons.org/licenses/by-nc-nd/4.0/).

SATHYABAMA

INSTITUTE OF SCIENCE AND TECHNOLOGY

(Deemed to be University)

Accredited with Grade "A++" by NAAC | 12B Status by UGC | Approved by AICTE

SCHOOL OF LAW

IN

Association with

ESHWARS | House Of Corporate & IPR Laws

Organizes

NATIONAL SYMPOSIUM ON INTELLECTUAL PROPERTY RIGHTS



DATE: 13TH JUNE, 2023

TIME: @10 AM

Registration Link: https://forms.gle/AheXfUyPMGytAnLU6

VENUE: MEGA CLASS ROOM,
SATHYABAMA UNIVERSITY

With the blessings of

Col. Dr. JEPPIAAR MA, BL, Ph.D.
Founder Chancellor

Chief Patrons

Dr. MARIAZEENA JOHNSON B.E., M.B.A., M.Phil., Ph.D.
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Dr. DILSHAD SHAIK M.L, M.B.A., Ph. D (Law)
Dean, School
of Law

ABOUT SATHYABAMA

Sathyabama is a prestigious institution which excels in the fields of Engineering, Science and Technology for more than three successful decades. It offers multi-disciplinary academic programmes in various fields of Engineering, Science, Technology, law, Dental Science, Pharmacy, Nursing, Management, Arts and Science and Allied Health Sciences. It is established under Sec.3 of UGC Act, 1956 and is been Accredited with 'A++' Grade by the National Accreditation and Assessment council. The Institution persistently seeks and adopts innovative methods to improve the quality of higher education and is responsive to the changes taking place in the field of education on a global scale. The Institution has a team of dynamic and outstanding faculty, innovative pedagogical practices , state of the art infrastructure and world class Research Facilities. This glorious Institution is functioning under the dynamic leadership of Dr. Mariazeena Johnson, Chancellor, Dr. Marie Johnson, President, Mr. J. Arul Selvan Vice President, Ms. Maria Bernadette Tamilarasi, Vice President and Ms.Maria Catherin Jayapriya Vice President.

Sathyabama has a good presence in rankings and ratings at National and International level. The Institution has been ranked in 43rd position by the National Institutional Ranking Framework (NIRF), Government of India among the Universities in India for the year 2022 and ranked one among the top 50 Universities for seven consecutive years. Sathyabama is ranked among the Top 5 Institutions in the Country for Innovation by ATAL ranking of Institution for Innovation Achievements, Govt. of India. Times Higher Education and QS has ranked Sathyabama among the top Institutions worldwide. Sathyabama Institute of Science & Technology has alliances with leading Universities and research establishments at National and International Level. It is a research intensive University with world class laboratories and research facilities and is involved in research in the emerging areas of Science and Technology. Sathyabama has undertaken various sponsored and collaborative R&D projects funded by National and International Organizations. Sathyabama has written a special page in the history of space research on 22nd June 2016 with the launch of "SATHYABAMASAT" in association with ISRO. Sathyabama has emerged as a leading Institution and achieved excellence in higher education to international standards owing to its research and academic excellence.

ABOUT SCHOOL OF LAW

SATHYABAMA
INSTITUTE OF SCIENCE AND TECHNOLOGY

SCHOOL OF LAW

Legal education is at a pivotal moment right now and Sathyabama School of Law is evolving to address the society's need by adding value to the students learning to serve society and spirit of community is an integral part of our curriculum. Ever since its inception, School of Law has stood by its strong dedications to the study of law and interdisciplinary approaches to law and the focus is on real-world skills required to be ready for practice. School of Law is defined by its way Legal Education is imparted and the school is keen on investing for students' intellectual and personal development. School of Law functions with most dynamic leadership programs, events and initiatives that help students gain a deeper understanding of leadership and carry leadership qualities. In the process, students grow as engaged leaders on campus, in the community, and beyond. School of Law is well known for its discipline, exposure and qualified faculty and their commitment.

Sathyabama School of Law aspires to be an internationally renowned Centre for research and teaching in law. School of Law is dedicated in advancing human dignity, social welfare and justice through knowledge of law. Our courses are academically rigorous, informed by the latest research. Courses are taught by dedicated, efficient and industrious faculty and a cadre of intellects that includes respected judges and experienced practitioners. We work with a wide variety of groups including the legal profession, policy makers, research bodies and organizations. This reflects our strength in many fields of legal and socio-legal research, and this give our students the opportunity to interact with internationally respected scholars. Our programmes will prepare students for a career in the legal profession and beyond. The curriculum has been designed to provide with a strong foundation in the core subjects coupled with opportunities to pursue optional courses in areas of undergraduate's choosing.

ABOUT SYMPOSIUM

The National Symposium on Intellectual Property Rights is a highly anticipated event that brings together professionals, experts, and enthusiasts in the field of intellectual property. This symposium serves as a platform for knowledge sharing, discussions, and exploration of key issues related to intellectual property rights. With a primary focus on the crucial role of intellectual property in fostering innovation, creativity, and economic growth, the symposium covers a wide range of topics, including patents, trademarks, copyrights, and trade secrets. Attendees have the opportunity to engage with renowned keynote speakers, industry leaders, and legal experts who will share their insights and experiences. Throughout the symposium, participants gain valuable insights into the latest developments, emerging trends, and challenges in intellectual property rights. Informative sessions, panel discussions, and interactive workshops provide a platform for dialogue and exchange of ideas. Attendees can delve into intellectual property protection strategies, digital copyright issues, patent law updates, and more.

In addition to the educational aspects, the symposium offers excellent networking opportunities for professionals across various sectors. Participants can connect with like-minded individuals, build valuable relationships, and expand their professional networks.

The National Symposium on Intellectual Property Rights is a must-attend event for anyone involved or interested in intellectual property. It provides a comprehensive platform for learning, collaboration, and staying updated with the ever-evolving intellectual property landscape. By participating in this symposium, attendees can gain valuable knowledge, exchange ideas, and contribute to the advancement of intellectual property rights in their respective fields.

SPEAKERS



SAISUNDER N.V,
Advocate, High Court



AANCHAL NICHANI,
Advocate, High Court



APADMA AKILA,
Advocate, High Court

Topic: Overview of Intellectual Property (IP) Rights and Their Role in Promoting Innovation
Speakers: Saisunder N.V and Aanchal Nichani

Topic: Trademarks and Innovation: Strategies for Building and Protecting Brand Identity
Speakers: Padma Akila and Aanchal Nichani

Topic: Copyrights and Designs: Navigating the Intersection of Creative Works and Digital Innovation
Speakers: Saisunder N.V and Padma Akila

FACULTY COORDINATOR

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ASSISTANT PROFESSOR

School of Law

Sathyabama Institute of Science and Technology

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Ms. SHYLASHREE

5th Year, BBA.,LL.B.,(Hons)

Mr. VINOTH KANNA

4th Year, B.A.LL.B (Hons)

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REPORT

Event : National Symposium on Intellectual Property Rights
Date: 13.06.2023

Location: Mega Class Room

Participants: 200

School of Law in association with Eshwars|House of Corporate & IPR Laws organized a National Symposium on Intellectual Property Rights on 13th June 2023. Eminent Advocates and IPR experts from Eshwars discussed widely about the overview of IPR and their role in promoting innovation, Trademarks and innovation: Strategies for building and protecting brand identity, Copyrights and designs: Navigating the intersection of creative works and digital innovations etc was focused on the day of this event. Followed by the speakers had a oven interactive session with out students

Participants details:

S.No	Name
1.	ABISHEKA.S
2.	ALANKRUTHA.R
3.	ASHOKKUMAR.J
4.	DHARSHINI.C S
5.	DIVYA BHARATH.M
6.	ESAKKIRAJ.A
7.	GAYATHRI .G
8.	GAYATHRI.D

9.	HARIHARASUDHAN.K
10.	HARIPRASAD.P
11.	INDDU.A.V.
12.	JAGADEESHWARI.V
13.	JESU TRINITA .M
14.	JISRIGA.M
15.	JOSPHINE RISHIKA.S
16.	KAAVYA.S
17.	KALISWARAN.P
18.	KANMANI.G
19.	MADHAN KUMAR.K
20.	MAHALAKSHMI.S.B
21.	MAHALAKSHMI @ GAYATHRI.E
22.	MANI PUSHPA VANESH.M
23.	MOHANETHI.M
24.	MUKESH.R
25.	NITHISH.V
26.	PREETHI.H
27.	PREETI KUMARAN
28.	PRIYADHARSHINI.A
29.	RAJASUSHMITHA.T
30.	SANTHIYA.S
31.	SANTHOSH KUMAR.M
32.	SARAVANAN.S
33.	SHAKTHI MAHA AATHISH.V
34.	SHARAN.R
35.	SHIVANI.M
36.	SHUBHASHREE.S
37.	SURESHKUMAR.A
38.	SYED ISMAIL.S
39.	SYED NASEER.F
40.	THANGAASWIN.S
41.	THUYASH.P
42.	GOPI ANANTH S
43.	SURIYAPRAKASH S
44.	SUNIL U
45.	AMITA B
46.	ABDUL HAFEEZ. S
47.	ABHISHEK. U
48.	ABINESH. A
49.	AISHWARYA. A.S
50.	AKASH MRITHVIN. B
51.	AKSHAYA. S
52.	ANNALIZA TOJO
53.	ARUNA VARSHINI. S
54.	BHARATH KUMAR. S
55.	BHARATHIDASAN. S
56.	CHETNA. S
57.	DHARSENI. P
58.	G.SHRIHARIHARAN
59.	GOPIKA. A
60.	GOWTHAM. R
61.	HARIHAREN. E

62.	HARISH. A
63.	HARISUNDAR. S
64.	JASWANT. S.G
65.	JERRY BASTIN. J
66.	JOE RAYMOND. A
67.	KAROLIN. C
68.	KIRUTHIKA. P
69.	KOWSIC. M
70.	KRISHNARDHULA SARUYU
71.	KRISHNAVENI. K
72.	LOGESHWARI. S
73.	MADHURAKSHINI. M.R
74.	MAGIZHVA. R
75.	MANIKANDAN. B
76.	MANORANJHITHAM. G
77.	MEGHA. A
78.	MOHAMED MISRAN. J
79.	MUHESH KUMAR. M.M
80.	NILAVOLI. S
81.	P. HEMA DEVE
82.	POOJAVARSHINI. S
83.	PRADHAKCHANAA. K
84.	PREETHI SHERINA. R
85.	PRIYADHARSHINI. G
86.	P.N.ROHAN NAIDU
87.	ROSHAN GEORGE. R
88.	S.DURGA DEVI
89.	SANJAY RAJ. P
90.	SANTHIYA. S
91.	SANTHOSH. S
92.	SHIYAM. A
93.	SIVA SHALINI. J
94.	SIVANANDHA. V
95.	SOFIA. S
96.	SRIKANTH. V.S
97.	SRIVATSHAN. S.N.S
98.	STALINI. T
99.	SUJITHA. S
100.	SURYA. V
101.	THUSHARA. S.S
102.	V. NEERAJA C REDDY
103.	VARSHINI. M
104.	VIGNESH. L
105.	VINOTH KANNA. R
106.	VISHESH SRINIVAS. P
107.	YOGAVARSHINI. S
108.	YUVANICA. G
109.	YUVARAJ. S.P
110.	AKASH. X.V
111.	MANISHA. T
112.	RUBINI. B
113.	KRITHIKA. P
114.	ANITHA SELVI. A

115.	SUDARVEL. S
116.	JEEVAN KUMAR. A
117.	AKASH MATHEW. Y
118.	ANJANA SHREE. J
119.	ANSLIN SUJA. J
120.	ASHWITHA MARIA RENI. A
121.	ASWINI. S
122.	DEEPIKA. N
123.	DEEPIKA. S
124.	DHANJAY PRASAD. M
125.	DIVYA. M
126.	HARI KRISHNAN. P
127.	HARINI. G
128.	INDRANI. P
129.	KEERTHANA. S
130.	LAKSHANA. J.V
131.	MONISHA. S
132.	MRUTHUL DEVAVARAM WILFRED. S
133.	NIDHISHINI. K
134.	NIVETHITHA. L
135.	POORNIMA. D
136.	RETHINA RAJ. A
137.	SAYAMI. V.K
138.	SHRI ABARNA. M
139.	SONA. V.R
140.	SOWNDARYA. K
141.	SREE LAKSHMI NAMBIAR
142.	SUGHEERTHI. R
143.	SUSHMA. N
144.	THILOTH THINEE. R.B
145.	VAISHALI. K.R
146.	CYNTHIA JENIFER. P
147.	DHARSHINI. B
148.	JANANI. R
149.	JANARTHANAN. J
150.	KAVIN ALLEN PAUL. E
151.	MADHUMITHA. M
152.	MALARVIZHI. S
153.	NIRANJANA. M
154.	RAGHUL BOOPATHY. R
155.	SAI RAMYA. P
156.	SAKTHI RAM. P.M
157.	SHAFEEQA MARYAM
158.	SHALINI RAVIKUMAR
159.	SHYAM SARAVANA. S
160.	SHYLASHREE. S
161.	SWEETY PATRICIA. D
162.	THILAK SUBIKSHAN. S
163.	DHARSHINI. R
164.	AAKASH. K.V
165.	BHUVANESHWARI. R
166.	CHARAN SAILESH. P.S

167.	CHARUMATHI. S
168.	KANIMOZHI. R.S
169.	KOUSER FATHIMA. M
170.	LAKSHMI PRIYA. L.M
171.	MADHUMITHA. R
172.	MALARMITHA. R
173.	MICHAEL SHRINEY. B
174.	NARMADHA. M
175.	NIVETHA. S
176.	PAVATHARANI. J
177.	PREMNATH. N
178.	PRIYADARSHINI. S
179.	RAHINI. P
180.	RAJATHI. S
181.	RITHIKA MIRRIAM PAULSON
182.	SHRIJA. S
183.	SIMI STHEBIYA MARY. S
184.	SUVETHA. C.P
185.	SWETHA M
186.	VISHNU PRASAD. K
187.	SAMYUKTHA. S
188.	ABINANDHANA. V.K
189.	BALA ASWIN. S
190.	BANUMATHI. M
191.	DEEPAK. A
192.	DHANUSH KARAN. C
193.	HARINI. S
194.	HARISHA. K
195.	INFANTA CLADIUS. R
196.	KAVITHA. B
197.	KEERTHANA. I
198.	MITHUL RAM. S
199.	MYLESHWAR. D
200.	NAVNEETH. N





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IJM

SCHOOL OF LAW

ANTI-HUMAN TRAFFICKING CLUB

in association with

INTERNATIONAL JUSTICE MISSION

LAUNCHES THE STUDY REPORT ON

THE IMPLEMENTATION OF THE BONDED LABOUR SYSTEM ABOLITION ACT IN TAMIL NADU "

on

7th, JUNE, 2023



INAGURATION @ 11: 00 am

Venue: Dr. Remibai Jeppiaar Auditorium

With the blessings of

Col. Dr. JEPPIAAR MA, BL, PH.D.

Founder Chancellor

Chief Patrons

Dr. MARIAZEENA JOHNSON B.E., M.B.A., M.Phil., Ph.D

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Vice Chancellor

Convener

Dr. DILSHAD SHAIK M.L, M.B.A., Ph. D (Law)

Dean,

School of Law

GUEST OF HONOUR



HON'BLE THIRU JUSTICE. T. RAJA
Former Acting Chief Justice -
Madras High Court, Chennai

ORGANIZING SECRETARY:

Mrs. Poojasree M.L., (Ph.D)

Assistant Professor,
School of Law,
Sathyabama Institute of Science
and Technology.





REPORT

School of Law's Anti-Human Trafficking Club in association with International Justice Mission addresses the issue by launching the Study report on "The implementation of the Bonded Labour System Act in Tamil Nadu" on 7 June, 2023. Around 600 trafficked survivors witnessed the event and Hon'ble Justice T.Raja, Former Acting Chief Justice, Madras High Court was invited as Guest of Honour

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SCHOOL OF LAW

ANTI HUMAN TRAFFICKING CLUB

COLLABORATION WITH

INDIAN COMMUNITY WELFARE ORGANISATION (ICWO)

REGIONAL SYMPOSIUM ON ANTI HUMAN TRAFFICKING

DATE : 8TH APRIL 2024

VENUE : NEW AC AUDITORIUM

WITH THE BLESSINGS OF

Col. Dr. JEPPIAAR MA, BL, Ph.D
Founder Chancellor

Chief Patrons
Dr. MARIAZEENA JOHNSON B.E., M.B.A., M.Phil., Ph.D.
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Dr. MARIE JOHNSON B.E., M.B.A., M.Phil., Ph.D. President

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CHIEF GUEST



Ms. MARIA BERNADETTE TAMILARASI

VICE PRESIDENT

CHIEF GUEST



A. J. HARIHARAN

FOUNDER SECRETARY, (ICWO)

ABOUT ICWO



Founded in 1994, Indian Community Welfare Organisation (L.C.W.O) is a non-governmental organisation operating in partnership with government, civil society and communities to support marginalized and exploited women in difficult circumstances in India. We strive to protect their rights and improve their health. Abiding by the Indian national programme, we provide support and advocate to strengthen the community-based HIV programmes to vulnerable populations affected by the epidemic with the aid of several dedicated volunteers, the constant encouragement and support of the government.

Vision: To improve the quality of life of the several marginalized groups in India.

Mission: To promote best practices in Health, Environment, Education, Technology and Public sector which improves the quality of life for the marginalized groups in India.

ORGANIZING SECRETARY

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Shafeeqa Maryam, BBA., LLB 5th Year
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VICE PRESIDENT
Sasha Alfred Murray, LLB, 2nd Year
School Of Law,
Sathyabama University

STUDENT CO-ORDINATOR
Hemanth, BBA., LLB(Hons), 2nd Year,
School Of Law,
Sathyabama University





REPORT

School of Law in association with Indian Community Welfare Organization organized a Regional Symposium on Anti Human Trafficking on 8th April 2024. Mr.A.J.Hariharan, Founder Secretary, ICWO graced his presence as the Chief Guest and addressed our students about the various insights of Anti Human Trafficking.

3.7.1 Number of collaborative activities with other institutions/ research establishment/industry for research and academic development of faculty and students during the year

3.7.1.1: Total number of Collaborative activities with other institutions/ research establishment/industry for research and academic development of faculty and students during the year

Deep learning technique for patients healthcare monitoring using IoT body based body sensors and edge servers

Cite

Article type: Research Article

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Abstract: Architectural, cognitive, and service layers are the three components that come together to form the system as a whole. The data that is acquired by the instruments at the application layer is processed by the system that is in charge of the network. The conceptual layer, which is where edge sensors are put, is responsible for managing radio resource management and intersensor connections in order to solve the issues raised by the physical layer about increasing power consumption and increased latency. In response to the processed data provided by the logical layer, the application layer will make judgements. The key objective is to lower prices so that they are more accessible to regular people. Patients will not only be able to maintain their financial stability, but they will also have easy access to private therapy. This research presents a solution based on the Internet of Things (IoT), which will simplify the usage of a generally complicated medical device while allowing you to do it at a reasonable cost and in the comfort of your own home. The Elephant Herding Optimizations using Convolutional Neural Networks (CNNs) method is discussed here in order to differentiate between healthy and unhealthy patterns of behavior. The scoring function, also known as fuzzy logic, is used in order to arrive at a conclusion on the severity of the irregularity. In the end, tests were carried out to see how well the recommended work fared in contrast to the existing approaches in terms of specificity, recall, f1-score, and ROC curve. These metrics were examined.

Keywords: IoT based smart healthcare monitoring system, edge computing, deep learning techniques, smart wearables and implantable devices

RESEARCH ARTICLE | MAY 22 2023

Investigation on Multi – Input (MI)DC - DC converters

M. Pushpavalli; P. Abirami; P. Sivagami; M. Kavitha; C. Bhuvaneswari; W. Abitha Memala; R. Harikrishnan

+ Author & Article Information

AIP Conf. Proc. 2618, 100010 (2023)

https://doi.org/10.1063/5.0139915

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The hybrid system always focuses on individual converters for renewable sources. It leads to inflation in the volume and expenditure of the system. This researcher mainly focuses on Multi - Input(MI) converter system. Open and closed loop analysis of Multi - Input(MI) Converters with various converters configurations are Multi- Input (MI) Boost, Multi - Input(MI) Buck boost, Multi - Input(MI)Sepic, Multi - Input(MI)Cuk, Multi - Input(MI) Zeta and Multi - Input(MI) KY Boost DC - DC Converters. The Performance of above converters investigated under both open and closed loop conditions. Among this Multi - Input(MI) KY boost converter behaviour is better than to other Multi - Input(MI) Converters. Multi - Input(MI) KY boost converter have less voltage ripple, less current ripple, less voltage stress across the devices under the open loop condition. Similarly, Multi- Input (MI) KY boost converter have positive gain margin, phase margin and also Under the closed loop scenario, PZ charts are evaluated.

Research Article

Enhancing Electrical Power Demand Prediction Using LSTM-Based Deep Learning Models for Local Energy Communities

M. Pushpavalli, D. Dhanya, Megha Kulkarni, R. Rajitha Jasmine, B. Umarani, M. RamprasadReddy, ...show all

Received 02 Dec 2023, Accepted 30 Jan 2024, Published online: 04 Apr 2024

Cite this article https://doi.org/10.1080/15325008.2024.2316246 Check for updates

Abstract

The pursuit of accurate electrical power demand forecasting has led to the application of deep learning algorithms, notably demonstrating promising outcomes despite the prerequisite of substantial training data. This study pioneers a new learning paradigm, employing sophisticated deep learning models specifically, Long Short-Term Memory networks and recurrent neural networks (RNNs). Leveraging historical load data, temperature, wind speed, and day-ahead predicted spot prices, this approach follows a structured flow involving data preprocessing, sequence generation, model training, and subsequent prediction of future load demand using LSTM-based RNN variants. The study's paramount findings underscore the substantial advancement achieved by this proposed methodology over prevailing techniques. The method significantly improves prediction accuracy by over 11%, demonstrating the efficacy of deep learning models and a significant leap forward in forecasting precision. Beyond its superior predictive capabilities, this novel strategy serves as a catalyst for enhancing energy distribution management in local energy communities. Its effectiveness lies not only in its precision but also in enabling the optimization and cost-effective control of energy distribution, vital for sustainable energy management in these communities. Ultimately, this pioneering approach presents a robust solution poised to revolutionize the landscape of electrical power demand forecasting and its practical application in local energy systems.

Versatile Solar Pump Controller for Various Applications

Publisher: IEEE Cite This PDF

M. Pushpavalli ; R. Harikrishnan ; P. Sivagami ; C. Bhuvaneswari ; W. Abitha Memala ; V. Meenakshi **All Authors**

Abstract:
The agriculture industry is in a constant state of transformation, with ongoing upgrades in farming equipment, agricultural infrastructure, and production facilities. Solar panels offer versatile solutions with myriad applications in farming. However, the substantial investment made by both farmers and governments in Solar PV pumping systems is underutilized, as these systems operate for just 150 days annually, essentially half the year. To maximize the potential of solar photovoltaic systems, which generate electricity year-round during sunny hours, it is crucial for the controllers installed in these solar pumping systems to serve multiple purposes, catering to a variety of agricultural and other farmer needs. This single solar-powered product has the capability to operate a wide range of applications, including water pumping, a mobile application, soil conditioning sensors, an ultrasonic sensor, a Bluetooth module, a battery, and an Arduino Uno board.Such diversification has the potential to significantly boost agricultural productivity and, in turn, increase farmer incomes.The primary aim of this study is to create remotely accessible, multi-mode, cost-effective, simple, highly reliable, and environmentally friendly solar water pumping systems that offer financial benefits to Indian farmers year-round. Solar water pumps have the potential to greatly benefit Indian farmers by providing both a consistent water supply and an additional source of income.

Published in: 2023 International Conference on Innovative Computing, Intelligent Communication and Smart Electrical Systems (ICSES)

Photovoltaic Powered Fuzzy Algorithm for IoT-Monitored Four Switch Induction Motor Drive

Publisher: IEEE Cite This PDF

S. Jayaprakash ; T. Kanthimathi ; N. Rathika ; P. Sathyanathan ; C. Srinivasan **All Authors**

Abstract:

There has been a lot of focus on the potential benefits to the industry of combining Renewable Energy Sources (RES) with Internet of Things (IoT) technology. The conventional motor-driven control system often uses traditional power sources and has poor continuous tracking capabilities, which limits its energy economy and control accuracy. This research introduces a unique method for enhanced energy efficiency and control by integrating a fuzzy algorithm, a photovoltaic (PV) power source, IoT-monitored four-switch induction motor (IM) drive. A fuzzy algorithm is used to improve the motor drive system. According to input factors like torque, load conditions and speed, the fuzzy logic controller (FLC) modifies the motor driving settings. Because of the adaptive properties of the fuzzy algorithm, the IM may be controlled effectively, improving system performance. Additionally, the IoT monitoring feature allows for remote control and real-time data collecting, improving system performance and issue detection. MATLAB/Simulink is employed to demonstrate the obtained results of the developed system. The results of this research may be used in a variety of fields, including robots, electric cars, and industrial automation powered by renewable energy.

Published in: 2023 International Conference on Self Sustainable Artificial Intelligence Systems (ICSSAS)

International Journal of Hydrogen Energy
Volume 52, Part C, 2 January 2024, Pages 696-708

Enhanced machine learning for nanomaterial identification of photo thermal hydrogen production

G. Ramkumar [a], M. Tamilselvi [b], S. D Sundarsingh Jebaseelan [c], V. Mohanavel [d e], Hesam Kamyab [f g h], G. Anitha [a], R. Thandaiah Prabu [a], M. Rajasimman [i]

Abstract

Instead of using temperature via an outside source, using energy created inside is the most effective method to improve the efficiency of catalysis. In this research, a novel hollowed TiO_2 photothermal nano catalyst (referred to as RuO_2/TiO_2/Pt/Carbon) for enzymatic production of hydrogen under ultraviolet irradiation is used. It resembles a hedgehog and contains regionally dispersed Pta and RuO2 double co-catalysts. The ultraviolet (UV) thermos kinetic efficacy of the converters that were made was evaluated according to architectural characteristics and the heat influence of the carbon-based surface. There are several inherent benefits for photocatalysis with heterogeneity exist in multi-layered hollowed hetero structures having extremely thin two-dimensional (2D) nanosheet subunits of the including improved sunlight gathering, accelerated separation of charged particles and disposal, and accelerated interface oxidation reactions. The sandwich-like nanotechnology of the charcoal layer, silver tiny particles, and TiO_2 surface effectively supports and protects Pt Micro particle against the accumulation and breaking down of Platinum sites that are active. Moreover, the electricity production of the reaction involving hydrogen evolution is nonetheless in its infancy, and there is tonnes of untapped potential for the use of Machine Learning (ML). The following perspective focuses on new developments in the detection of outstanding performance Hydrogen Evolution Reaction (HER) catalysts using Artificial Intelligence (AI) in an effort to stimulate more broad proposals for research. In the course of the research, an Artificial Neural Network (ANN) strategy was created and validated in order to forecast the results of the hydrogen assessment. The analysis of the dataset's test results demonstrates that the ANN technique can reliably and accurately estimate the generation of hydrogen.

International Journal of Power Electronics and Drive Systems (IJPEDS)
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Particle swarm optimization-extreme learning machine model combined with the AdaBoost algorithm for short-term wind power prediction

Ganesapandiyan Ponkumar[1], Subramanian Jayaprakash[1], Dharmaprakash Ramasamy[2], Amudha Priyasivakumar[2]
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AdaBoost algorithm
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Optimization algorithm
Wind power prediction
Support vector machines

ABSTRACT

In our proposed approach, we integrate AdaBoosting with particle swarm optimization-extreme learning machine (PSO-ELM) to enhance the accuracy of wind power estimation, addressing the inherent unpredictability and variability in wind energy. Initially, we refine the thresholds and input weights of the extreme learning machine (ELM) and then construct the PSO-ELM prediction model. AdaBoost is utilized to generate multiple weak predictors, each comprising a distinct hidden layer node. The PSO technique is then employed to optimize the input weights and thresholds for each weak predictor. The final forecast is attained by amalgamating and weighting the outcomes from each weak predictor using a robust wind power forecast model. Experimental validation utilizing data from Turkish wind turbines underscores the efficacy of our approach. Comparative analysis against contemporary techniques such as ensemble learning models and optimal neural networks reveals that our ADA-PSO-ELM model demonstrates superior accuracy and generalizability in predicting wind power output under real-world conditions. The proposed approach offers a promising framework for addressing the challenges associated with wind power estimation, thereby facilitating more reliable and efficient utilization of wind energy resources.

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Experimental Evaluation of Learning Based River Path Sensing and Classification Using Digital Satellite Images

Publisher: IEEE Cite This PDF

S.D. Anitha Selvasofia ; S. Deepa Shri ; S.Meenakshi Sudarvizhi ; S.D. Sundarsingh Jebaseelan ; K. Saranya ; M. Arthisree **All Authors**

Abstract:

The river system is constantly stressed out by the demands for electricity, water, and food, despite its crucial role in the planet's long-term viability. Automatic river mapping using satellite data has tremendous potential, according to recent advancements in machine learning. For sound management and policy choices, precise and up-to-date water extent data may be provided via surface river mapping. Nevertheless, due to imperfect labeling, geographical variability, and noise in satellite data, precise large-scale river mapping continues to be a formidable challenge. The accessibility of excellent quality imagery from satellites, user-friendly programming tools, and high-end consumer computing power have all contributed to the recent alignment of the information analytics and satellite imagery groups. The area of remote sensing and image processing faces a formidable obstacle in the process of water body segmentation. The generation of index characteristics by merging distinct spectra is a common component of classical strategies for countering this problem. On the other hand, these approaches rely heavily on rules and don't account for context. This paper introduces a novel approach to river path identification and classification using the Estimated Learning for Path Sensing and Classification (ELPSC) model. To assess the effectiveness of the proposed scheme, it is cross-validated with the conventional Support Vector Machine (SVM) classification model. Even with sparse and noisy data, we show that the suggested contrasting model of learning can successfully map a number of rivers.

Open Access

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E3S Web of Conferences **472**, 01005 (2024)

Utilizing Artificial Neural Network For the Regulation Of Electric Springs In Renewable Systems

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Abstract

Now a days the research work is going on to improve the performance of electric springs (ESs) by integrating a current source inverter (CSI) and a neural network controller. A new ES configuration that includes CSIs is introduced to enhance ES functionality. This configuration is accompanied by a control strategy that involves direct current control and mitigation of harmonic distortion, like the methods used in active power filters (APFs). By transitioning from voltage source inverters (VSIs) to CSIs and integrating a neural network controller, a significant reduction in total harmonic distortion (THD) can be achieved. The paper presents two distinct control loops, each equipped with proportional-integral (PI) controllers. One loop is focused on regulating the Critical load voltage (CL voltage), while the other is specifically designed for reactive power compensation.

Review on the Electric Spring Connected to the Renewable Energy System to Minimize Harmonics and Voltage Profile Enhancement

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Abstract

The emerging smart grid technology known as Electric Spring (ES) has been employed previously to maintain voltage and power stability in renewable energy-based grids that are minimally regulated or self-contained. This study thoroughly investigated the foundational theories, modeling approaches, practical uses, and restrictions associated with Electric Springs by analyzing existing Scholarly works in this domain Electric Springs implement a direct power control approach. solution for the next-generation single-phase Systems, addressing the limitations of current ES control methods. This solution aims to improve power management in microgrids, where integrating renewable energy sources (RESs) poses challenges due to the unpredictable power output. The challenge involves managing two aspects: the variable Power consumed by ES and the power fed into the grid. The suggested straightforward and accurate signal manipulation method, namely, ANN-based Electric Spring (ES), is set to be deployed. This technique can adeptly manage these aspects in both stable conditions and during transitions in Renewable Energy Sources (RES).

Advanced Machine Learning Techniques for Accurate Very-Short-Term Wind Power Forecasting in Wind Energy Systems Using Historical Data Analysis

by G. Ponkumar [1,*], S. Jayaprakash [1] and Karthick Kanagarathinam [2]

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Abstract

Accurate wind power forecasting plays a crucial role in the planning of unit commitments, maintenance scheduling, and maximizing profits for power traders. Uncertainty and changes in wind speeds pose challenges to the integration of wind power into the power system. Therefore, the reliable prediction of wind power output is a complex task with significant implications for the efficient operation of electricity grids. Developing effective and precise wind power prediction systems is essential for the cost-efficient operation and maintenance of modern wind turbines. This article focuses on the development of a very-short-term forecasting model using machine learning algorithms. The forecasting model is evaluated using LightGBM, random forest, CatBoost, and XGBoost machine learning algorithms with 16 selected parameters from the wind energy system. The performance of the machine learning-based wind energy forecasting is assessed using metrics such as mean absolute error (MAE), mean-squared error (MSE), root-mean-squared error (RMSE), and R-squared. The results indicate that the random forest algorithm performs well during training, while the CatBoost algorithm demonstrates superior performance, with an RMSE of 13.84 for the test set, as determined by 10-fold cross-validation.

Keywords: wind energy; forecasting; machine learning; wind power prediction

Permutation feature importance-based fusion techniques for diabetes prediction

Focus | Published: 24 April 2023

(2023) Cite this article

S. Nirmalraj, A. Santhi Mary Antony, P. Srideviponmalar, A. Sheryl Oliver, K. Jayasakthi Velmurugan, V. Elanangai & G. Nagarajan

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Satellite Image Based Animal Identification System Using Deep Learning Assisted Remote Sensing Strategy

Publisher: IEEE Cite This PDF

A.S. Gowri ; Immanuel Yovan ; S.D. Sundarsingh Jebaseelan ; S.D. Anitha Selvasofia ; N. Nandhana **All Authors**

Abstract:

Over the past ten years, tiny Unmanned Aerial Vehicles (UAVs) have exploded in popularity for a variety of aerial monitoring applications, including livestock counting, wildlife tracking in their natural environments, and agricultural region monitoring. When used in conjunction with deep learning, they make it possible to analyze and recognize images automatically. Recently, species population detection and monitoring in remotely sensed data has been made possible with the use of deep learning, an efficient machine learning technology. Animal recognition in satellite and aerial photos is one area where deep learning approaches are finding practical use right now, and this paper intends to give an experimental review of those areas. To simplify the process of animal identification from satellite images, this study presented a new deep learning method called the Learning based Animal Sensing and Classification Model (LASCM). To test how well the method worked, it was cross-validated with the traditional Random Forest (RF) model. The primary obstacles to implementing these deep learning techniques are unbalanced datasets, tiny samples, tiny objects, picture annotation techniques, picture backgrounds, animal counting, evaluation of model performance, and uncertainty calculation. Barely and self-supervised techniques for learning, optimizing either favorable or adverse instances, improving network architecture, and sample annotation methods were all considered as potential answers. The following areas are projected to get increased attention in the next years: video-based detection; detection based on extremely high-resolution satellite images; identification of several species; novel methods for annotation; and the creation of specialized network frameworks and big foundational modelling. The proposed methodology is designed to sort out all these problems and provide an efficient animal identification scheme based on deep learning model from the satellite images.

IoT Enhanced Optimization of Wind Energy Systems Using LCL Filter

Publisher: IEEE

Cite This PDF

V. Meenakshi ; V.Vijeya Kaveri ; A.Santhi Mary Antony ; S. Radhika ; M. Kavitha ; M. Pushpavalli **All Authors**

Abstract:

Among the non-conventional electrical energy resources, it's far a great deal beneficiary and mandate to make use of wind power for the development of decentralized integrated power structures together with sun power, hydel energy and biomass and so on., Wind mills do not release emission which could pollute air or water and. Wind energy is recommended for a prolonged utilization whilst troubles like oil shortages and environmental effects and so on., arises inside the market. Doubly Fed Induction Generator machine (DFIG) is desired. Here this paper describes the several ways in which small wind turbines can benefit from IoT integration such as Remote monitoring and control, predictive maintenance optimization performance, energy management and grid integration, LCL filter design together with its mathematical expressions to validate the layout info each in analytical and experimental manner is discussed to control total harmonic distortion. LCL filter in grid side for that transfer function and the consequent frequency area approach the usage of Bode plot has been offered. The distortion current for LCL filter is shown inside the simulated consequences. It additionally gives the dynamic version of LCL filter in simulation the use of Simulink/MATLAB.

OUCI

RETRACTED ARTICLE: IOT based statistical performance improvement technique on the power output of photovoltaic system

https://doi.org/10.1007/s12652-020-01954-8 ·

Journal: Journal of Ambient Intelligence and Humanized Computing, 2020, № 5, p. 5029-5043

Publisher: Springer Science and Business Media LLC

Authors: P. Sivagami, N. M. Jothiswaroopan

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सत्यमेव जयते

क्रम सं/SL No :044182405

पेटेंट कार्यालय,भारत सरकार
The Patent Office, Government Of India

पेटेंट प्रमाण पत्र | Patent Certificate

(पेटेंट नियमावली का नियम 74) | (Rule 74 of The Patents Rules)

पेटेंट सं. / Patent No.	:	522139
आवेदन सं. / Application No.	:	201841043412
फाइल करने की तारीख / Date of Filing	:	19/11/2018
पेटेंटी / Patentee	:	1.Dr.T.KARTHIKEYAN 2.Dr.V.S.K.VENKATACHALAPATHY 3.Dr.K.VELMURUGAN 4.Dr.S.JAYAPRAKASH
आविष्कारकों का नाम /Name of Inventor(s)	:	1.T. KARTHIKEYAN 2.P. JAYA KUMAR

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकटित *CONCEALED TYPE FIRE EXTINGUISHER WITH VERTICAL AND HORIZONTAL MOVEMENT OF NOZZLE WITH UMBRELLA* नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख नवम्बर 2018 के उन्नीसवें दिन से बीस वर्ष की अवधि के लिए पेटेंट अनुदत्त किया गया है।

It is hereby certified that a patent has been granted to the patentee for an invention entitled *CONCEALED TYPE FIRE EXTINGUISHER WITH VERTICAL AND HORIZONTAL MOVEMENT OF NOZZLE WITH UMBRELLA* as disclosed in the above mentioned application for the term of 20 years from the 19th day of November 2018 in accordance with the provisions of the Patents Act,1970.

IoT Based Coal Mine Safety and health Monitoring System

Publisher: IEEE

Cite This PDF

V. Meenakshi ; S Radhika ; V.Vijeya Kaveri **All Authors**

Abstract:
There are many sectors that depend on coal, and it is often referred to as the "Black Diamond" by many. In order to meet India's ever-increasing electricity needs, coal mining has become a national priority However, this work is hazardous and could be fatal for those who perform it. The environment poses several challenges to coal miners, including high temperatures that cause excessive sweating and can have negative health effects as well as the emission of hazardous gases, to name a few. These elements make the workplace a dangerous place for employees to be, endangering their very lives. In this research, a data transmission platform called Think speak IoT is used as a medium to pass the data. The technology is used to monitor the different parameters of human health parameter are heart rate, sweat rate, and spo2 level. These sensors are all deemed one unit and are installed in coal mines. All sensor values are constantly transmitted to the think speak IoT platform for analysis. The developed system is primarily used to rescue employees' health conditions and to guarantee workers' safety. So that appropriate actions can be done whenever a potentially dangerous situation appears.

Published in: 2023 International Conference on Advances in Computing, Communication and Applied Informatics (ACCAI)

RESEARCH ARTICLE | DECEMBER 15 2023

IoT based smart health care wearable

D. Susitra ; W. Abitha Mamela; C. Bhuvaneswari; Pushpavalli; N. Venkatesvara Rao; P. Bharath

+ Author & Article Information

AIP Conf. Proc. 2901, 070018 (2023)

https://doi.org/10.1063/5.0179485

Health is one among the predominant challenges for humanity. Last few decades have witnessed a sharp rise in the number of health issues especially in elderly people. Nearly 65% of aged people suffer from chronic illness. In such a situation, people have to be aware of their current health condition and take proper care as early as possible. But elderly and disabled people need someone's assistance for such frequent checkups with the medical expert. Even they have to face so many difficulties to inform someone about their health condition. To keep an individual aware of his health condition on a regular basis, an easily accessible health care system is a prerequisite. Itprovides better health care services to needy people anytime and from anywhere.A smart health care system for elderly and disabled people is proposed in this paper for monitoring body temperature, heartbeat, respirationlevel and glucose level. On diagnosis, the system sends an automatic notification to the caretakers or medical experts. This work focuses on basic health monitoring and attention system for elderly and disabled people.

Intelligent Management of Electric Vehicle Charging and Optimizing the Operation of the Electric Power System

PDF

Published: Jun 23, 2024

DOI: https://doi.org/10.4273/ijvss.16.2.08

Keywords: Particle Swarm Optimization, Electric vehicle, Electrical system, Recharge, Vehicle-to-grid

Katuri Rayudu
Leena Daniel
Uzma Sheikh
R.V. Parimala
A. Ayub Khan
Ramya Devasahayam
Rajasekhar Gorthi

Abstract

The electric vehicle is becoming more and more present in the cities and before its presence becomes large-scale, it is necessary to consider how the penetration of the electric vehicle will affect the electrical system. It will be necessary to have implemented the necessary technologies so that the new demand for recharges is



Advancements in Electric Vehicle Management System: Integrating Machine Learning and Artificial Intelligence

D. Godwin Immanuel, Gautam Solaimalai, B. M. Chandrakala, V. G. Bharath, Mukul Kumar Singh, Sampath Boopathi

Source Title: Semantic Web Technologies and Applications in Artificial Intelligence of Things
Copyright: © 2024 | Pages: 21
DOI: 10.4018/979-8-3693-1487-6.ch018

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Abstract

The chapter discusses the advancement of electric vehicle (EV) management systems, emphasizing the role of machine learning and artificial intelligence in optimizing vehicle dynamics, battery management, charging infrastructure, and user preferences. These technologies can enhance performance, efficiency, and user experience by adapting to dynamic driving conditions, optimizing energy consumption, and providing personalized experiences. The chapter also addresses challenges like data privacy, computational complexity, and interoperability, suggesting solutions and highlighting the need for collaborative research initiatives and regulatory frameworks for responsible ML and AI deployment in the EV industry.

Research Article

Grid-Connected RES Integration for Power Optimization Using Multi-Level Inverters and AI Techniques

D. Godwin Immanuel, R. Suresh Kumar, N. Nagabhooshanam, Sai Ram Inkollu, Satish S. Salunkhe, V. V. Kamesh & ...show all

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Cite this article https://doi.org/10.1080/15325008.2023.2270485 Check for updates

Abstract

Interest in renewable energy is growing in every corner of the world. Most renewable power, by definition, produces energy on a temporary basis; the integrations of renewable energies into electric grids are the challenging task, as renewable power is often intermittent. Transceivers play an important role in measuring, operations, and security of renewables producers and power grids, making them a vital piece of technology in this link to the grid. In order to get the most out of energy converters installed in three-phase, four-wire distributors, and this article proposes a novel control method for energy converters using Convolutional Neural Networks (CNNs). CNNs are the types of artificial intelligence that can be used to learn complex relationships between input and output data. In this case, the input data is the state of the inverter and the output data is the control signals. It used to be governing inverters so that they can perform the duties of a multifunctional device Simulation studies in Simulink and MATLAB are used to demonstrate this novel control paradigm, and the experimental data from lab work with DSPs provides further confirmation.

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क्रम सं/ Serial No. : 145014

पेटेंट कार्यालय, भारत सरकार The Patent Office, Government Of India

डिजाइन के पंजीकरण का प्रमाण पत्र | Certificate of Registration of Design

डिजाइन सं. / Design No.	:	384105-001
तारीख / Date	:	17/04/2023
पारस्परिकता तारीख / Reciprocity Date*	:	
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प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो *THERMAL IMAGING CAMERA FOR AGRICULTURAL FIELD* से संबंधित है, का पंजीकरण, श्रेणी 16-01 में 1.Mr. R. Karthickmanoj 2. Mr. P. Murali 3.Mrs. Ramya.D 4.Mr. A. Abdul Hayum के नाम में उपर्युक्त संख्या और तारीख में कर लिया गया है।

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In pursuance of and subject to the provisions of the Designs Act, 2000 and the Designs Rules, 2001.

Implementation of IoT for Fire Protection System in Unitary Air Conditioners

Publisher: IEEE Cite This PDF

F Sheryn ; M Pushpavalli ; P Sivagami ; P Abirami ; M Suriyapriya ; S Nilananthanna **All Authors**

Abstract:
With the increasing global temperatures and climate fluctuations, air conditioning has transitioned from a luxury to a necessity in daily life. In the Indian market, room air-conditioners dominate, offering a broad range of affordable products from various brands. While these systems contribute significantly to human comfort and productivity, the neglect of electrical and fire safety features poses a potential threat to both human safety and property. This paper addresses the critical issue of fire hazards in unitary air conditioners and proposes a solution through the implementation of a modified fire protection circuit. By enhancing the electrical and fire safety features of these systems, the aim is to mitigate the risk of fire incidents and safeguard human lives and property. Additionally, the paper explores the integration of Internet of Things (IoT) devices to alert occupants in real-time in the event of a potential fire, providing an extra layer of safety and responsiveness. Through this research, the proposed modifications seek to strike a balance between the increasing demand for air conditioning and the imperative need for robust fire safety measures. The paper aims to contribute to the ongoing discourse on sustainable and secure HVAC systems, fostering a safer environment for individuals and businesses alike.

Published in: 2024 International Conference on Advances in Computing, Communication and Applied Informatics (ACCAI)


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(b)	**School**	**FACULTY OF BUSINESS MANAGEMENT & PROFESSIONAL STUDIES**
(c)	**Intake**	**SEPTEMBER 2024**
(d)	**Type of Programme**	**FULL TIME**
(e)	**Duration**	**6 MONTHS**
(f)	**Start Date**	**SEPTEMBER 2024**

Conditions:

1. This conditional offer is subject to the entrance qualifications determined by the university senate and Malaysian Qualifications Agency (MQA). **The issuance of the firm offer letter will only be finalized once the equivalency of qualification from MQA is obtained. If necessary, with the support letter from the respective Embassy.**
2. This Offer is also subject to the final approval of your Student Visa and Pass.
3. You must meet the required English Language requirement before being admitted to the approved programme of study. Upon arrival, student will undergo an English program (between 1 to 9 months, depending on competency of the English language) until advised for continuation into the programme.
4. To accept this conditional offer, kindly complete the Letter of Acceptance as well as other relevant forms attached with this letter, and return them to the Admission & Record Department, Registrar Office MSU.
5. You are also advised to read all details relating to the registration process and procedures.
6. Students are NOT allowed to enter Malaysia prior to receipt of Approval Letter from the Malaysian Immigration Department.
7. International student seeking temporary entry into Malaysia as a fee paying international student for education purposes only, and is not allowed to undertake part-time studies, or any mode of employment.
8. International students or their sponsor will be responsible for the full costs of the program for which the student is seeking admission and for the attendant travel and living costs;
9. The University will not provide a subsidy to students for any costs incurred in the use of on-campus child care facilities for their dependants; student may be subject to different rules and conditions prescribed by MSU and the Malaysia Government if the students change his/her visa status.
10. The university has the right to cancel the student visa if any of the above conditions are unfulfilled

For further inquiry pertaining to the admission, kindly contact Global Affairs at 603-55216792 or email us at ***global_affairs@msu.edu.my***.

Thank you.

Yours sincerely,



……..…

ASSOC. PROF. DR. HALINAH
Registrar

The University reserves the right to withdraw an offer made, amend or cancel any courses offered should the circumstances so warrant.

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STUDY ABROAD OPPORTUNITIES AT ALBSTADT-SIGMARINGEN UNIVERSITY (ASU), GERMANY

Organised by

CENTRE FOR ACADEMIC PARTNERSHIP AND INTERNATIONAL RELATIONS

Resource person : Mr. Thamarai Pandiyan, representative of ASU

Date : 10th July 2024
Time : 11.00 am
Venue : IRC 1st Floor Auditorium

Last date for Registration : 9th July 2024

Who can participate : II Year CSE & IT Students

Interested students can register through the link given below or QR code

https://forms.gle/wwKnsR7M1sGHadUU9

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For further queries, mail to sap@sathyabama.ac.in

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SEMINAR ON INTRODUCTION TO THE USE OF R FOR STATISTICAL ANALYSIS

Organised by

CENTRE FOR ACADEMIC PARTNERSHIP AND INTERNATIONAL RELATIONS

Mr. Luciano Nieddu, Pro-rector for International Relations, (UNINT) & Visiting Internatioanl Professor at Sathyabama Institute of Science and Technology will deliver a talk

Date : 18th July 2024
Time : 1.00 pm
Venue : IRC 1st Floor Auditorium
Who can Participate: Open to All Students

For further queries, mail to
sap@sathyabama.ac.in

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STUDY ABROAD OPPORTUNITIES AT UNIVERSITY OF HULL, UK

Organised by

CENTRE FOR ACADEMIC PARTNERSHIP AND INTERNATIONAL RELATIONS

Resource person : Dr.George Alapatt, representative of University of Hull





Date : 19th July 2024
Time : 2.00 pm
Venue : IRC 1st Floor Auditorium

Participants : IV Year Mechanical & Biomedical Students

For further queries, mail to sap@sathyabama.ac.in

Morphometric and molecular sequencing evidence for the identification of Artemia franciscana (Kellogg, 1906) in Southern India

Y. Biju

Center for Marine Science and Technology, Manonmaniam Sundaranar University

S. Krishnakumar

Department of Biomedical Engineering, School of Bio and Chemical Engineering, Sathyabama Institute of Science and Technology

M. Krishnaveni

Center for Marine Science and Technology, Manonmaniam Sundaranar University

DOI: https://doi.org/10.22364/eeb.21.03

Environmental and Experimental Biology Vol. 21(2023) 1

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2023-04-21

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Biomedical and Pharmacology Journal

Journal is Indexed in: Scopus CAS National Academy of Agricultural Sciences Google ProQuest J-Gate

How to Cite | Publication History Views: (Visited 830 times, 1 visits today) PDF Downloads: 273

Development of a Non-Invasive Jaundice Meter Using Transcutaneous Bilirubinometry

G Hari Krishnan[1], T Sudhakar[2], Sheeba Santhosh[3] and G Mohandass[4]

[1]Department of Electrical and Electronics Engineering, Sree Vidyanikethan Engineering College, Mohan Babu University, Tirupati, Andhra Pradesh, India.

[2]Department of Biomedical Engineering, Sathyabama Institute of Science and Technology, Chennai, India.

[3]Department of Electronics and Communication Engineering, Panimalar Engineering College, Chennai, India

[4]Department of Biomedical Engineering, Agni Institute of Technology, Chennai, India.

Corresponding Author E-mail: haris_eee@yahoo.com

DOI : https://dx.doi.org/10.13005/bpj/2837

Abstract

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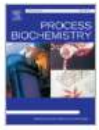
References (61)

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Process Biochemistry

Volume 140, May 2024, Pages 32-44



Production, characterization and biomedical application of pyocyanin pigment produced by competent *Pseudomonas* species

Sudhakar Thukkaram [a 1], Lakshmipathy Muthukrishnan [b c 1], Karpagam S. [d]

[a] Faculty of Bio & Chemical Engineering, Sathyabama Institute of Science and Technology (Deemed to be University), Jeppiaar Nagar, Raajiv Gandhi Salai, Chennai, Tamil Nadu 600119, India

[b] Conservative Dentistry & Endodontics, Saveetha Dental College and Hospitals, Saveetha Institute of Medical and Technical Sciences (SIMATS), Saveetha University, Chennai, Tamil Nadu 600077, India

[c] Institute of Plant Genetics, Polish Academy of Sciences, Strzeszyńska 34, 60-479 Poznań, Poland

[d] Department of Plant Biology and Biotechnology, Queen Mary's College, Chennai, Tamil Nadu 600004, India

Received 28 October 2023, Revised 31 January 2024, Accepted 12 February 2024, Available online

Design and Analysis of Reflection Coefficient with Slot Microstrip Patch Antenna in S-Band Application

Publisher: IEEE Cite This PDF

Mary Joy Kinol.A ; Marshiana. D ; Sabarivani. A ; Krishnamoorthy. N.R ; Vinothkumar. C ; Harikrishnan. R **All Authors**

1 Cites in Paper

133 Full Text Views

Abstract

Document Sections

I. Introduction

II. Methodology

III. Results and Discussion

IV. Conclusion

Authors

Abstract:

The transmission of signals through an antenna having a microstrip H0 slot patch, provides the lowest feasible return loss when compared to various substrate materials for use in the S-band in the specified frequency range. This research suggests an antenna design with FR4 substrate, Duroid 6010, RT-Duroid 6080, nylon fabric, and other materials. The proposed antenna has the following measurements: 39.2 mm x 39.2 mm x 1.6 mm. The High-Frequency Structure Simulator 19.0 is used to generate the full design and examine the reflection coefficient. With a reflection coefficient of −17.37dB, −21.81dB, - 23.42dB, and −23.68dB, Duroid 6010, Rt-Duroid, Nylon Fabric, and FR4 substrates are used to design the innovative H slot microstrip patch antenna. At the resonant frequency range of 2.4 GHz, this cutting-edge proposed antenna with FR4 substrate offers superior signal transmission. S-band applications mostly employ this frequency range. Simulation results show that the proposed antenna with FR4 substrate has a significantly lower return loss (-23.68 dB) than the conventional antenna with a different substrate

School of Building and Environment
Department of Civil Engineering

3.7.1 Collaboration Activities – 2023-2024

S.No.	Title of the collaborative activity	Name of the collaborating agency with contact details
1.	Internship Training on P.W.D Project	M/s Aryabhata Brandt Urban Analytic Pvt.Ltd, Chennai
2.	Expert Talk on Principles and Practices of Construction Management	L&T Institute of Project Management, L&T, Chennai
3.	Materials Today Proceedings Publication on Investigation of the use of non-biodegradable waste materials in concrete via experimental research	**Bakhtiyarpur College of Engineering** Bakhtiyarpur, Patna, Bihar Graphic Era Deemed to be University Dehra Dūn, India
4.	Materials Today Proceedings Publication on An investigation on the use of waste materials from industrial processes in clay brick production	**Bakhtiyarpur College of Engineering** Bakhtiyarpur, Patna, Bihar Graphic Era Deemed to be University Dehra Dūn, India
5.	Workshop on GPS Concepts and its applications	Alterra Solutions LLP, Chennai
6.	Biomass conversion and Biorefinery Publication on Microbially-induced self-healing bioconcrete for sustainable development	SRM Institute of Science and Technology Saveetha University Pondicherry University
7.	National Remote Sensing Day	Anna University, Chennai
8.	Materials Today Proceedings Publication on Enhancement of the existing soil strength using the waste materials as a stabilization resource for Sustainable development	University of Technology of Applied Sciences, Muscat, Oman
9.	Patent published on UV Reactor for water Treatment	R. L. Jalappa Institute of Technology, Jain University, SSN College of Engineering, Vels University
10.	Ground water for sustainable development Publication on Wastewater recycling and groundwater sustainability through self-organizing map and style based generative adversarial networks	SRM Institute of Science and Technology NBKR Institute of Science and Technology

11.	Materials Today: Proceedings publication on Feasibility study on utilisation of discarded waste material as a partial replacement for coarse aggregate in concrete	NICMAR Pune
12.	Appropriate Technologies Interventions for Rural Development	NITTTR, Chandigarh
13.	Book chapter: Feasibility Assessment on Electronic Waste (EW) as a Partial Reduction for Coarse Aggregate (CA) in Concrete	NICMAR Pune and NICMAR Hyderabad
14.	Patent Water filtration and cooling system	R. L. Jalappa Institute of Technology, Jain University, SSN College of Engineering, Vels University
15.	MoU	Techapps Consultancy
16.	Consultancy Services	Sirkali Municipality, Tamil Nadu
17.	Buildathon Cube Activity	Birla Shakti Cements



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INTERNSHIP TRAINING ON P.W.D Project

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IN

ASSOCIATION WITH

M/s Aryabhata Brandt Urban Analytic Pvt.Ltd, Chennai

8th July 2023

9.00 AM to 3.15 PM

Seminar Hall, Civil Department

CHIEF PATRONS:

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Dr. Devyani Gangopadhyay, Dean, Building and Environment

Coordinators:

Dr.V.Sampathkumar, Professor/Civil
Dr.R.Nirmala, Associate Professor/Civil
Ms. Priyadharshini, Assistant Professor/Civil
Ms.P.Eshanthini, Assistant Professor/Civil



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SCHOOL OF BUILDING AND ENVIRONMENT
DEPARTMENT OF CIVIL ENGINEERING

Organises Expert Talk on

Principles and Practices of Construction Management



Date :
18.07.2023

Time:
1.15 pm to 3.15pm

Dr. SANTHOSH LOGANATHAN,
Faculty - L&T Institute of Project Management,
Larsen & Toubro Ltd.,
Chennai - 600036

Venue :Seminar Hall, Department of Civil Engineering

CHIEF PATRONS:

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Contents of the Expert Talk on Principle and practices of Construction Management

Date	Name of the Expert and Designation	Topics Discussed
18.07.2023	Dr.Santhosh Loganathan, Faculty L &T Institute of Project Management, Chennai	Introduction to principles of management Concepts of project management Practices of Construction management

Outcomes

The expert talk focused on principles and practices of construction management to be followed in Creating construction project schedules. Analyzing professional decisions based on ethical principles.

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Available online 20 February 2023

In Press, Corrected Proof ⓘ What's this?

Investigation of the use of non-biodegradable waste materials in concrete via experimental research

S. Vanitha [a], P. Padmalasan [a], V. Sampath Kumar [a], Rajeev Singh Parihar [b], M. Anish [c] ✉, Nishikant Kishor Dhapekar [d] ✉, Shri Krishna Mishra [e] ✉

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https://doi.org/10.1016/j.matpr.2023.02.052 ↗ Get rights and content ↗

Abstract

Plastic trash disposal is a big problem in current time, since the usage of plastics is rising all the time, and plastic material took 100years to degrade. There are several practical solutions for recycling and repurposing plastics being developed. This research investigates the use of non-biodegradable plastic aggregate generated from high density polyethylene (HDPE) waste in place of natural fine aggregate in concrete. To determine

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PROCEEDINGS

Available online 2 February 2023

In Press, Corrected Proof ⓘ What's this?

An investigation on the use of waste materials from industrial processes in clay brick production

P. Padmalosan [a], S. Vanitha [a], V. Sampath Kumar [a], M. Anish [b] ✉, Rajesh Tiwari [c], Nishikant Kishor Dhapekar [d] ✉, Anil Singh Yadav [e] ✉

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Abstract

Clay brick manufacturing is an industry that often makes use of several types of high-temperature firing processes. In order to maintain this temperature in the kiln, large amounts of wood, coal, biomass and other fuels are burned, which is a substantial

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In association with
ISRS CHENNAI CHAPTER
SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY



Inaugural Address

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General Manager
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Under the auspicious presence and guidance of

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Microbially-induced self-healing bioconcrete for sustainable development

Original Article | Published: 26 July 2023

(2023) Cite this article

J. Vanjinathan, V. Sampathkumar, N. Pannirselvam, Ragi Krishnan, M. Sivasubramanian, S. Kandasamy, S. D. Anitha Selvasofia & M. Kavisri

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Abstract

In the building industry, concrete is widely utilised as a foundation. In the construction of superstructures, structural concrete, slab construction, stair construction, and architectural components are all utilised. The most frequent components of concrete are cement, fine aggregate, coarse aggregate made of shattered stones or gravels, chemical admixtures, and water. During the curing or hardening process, concrete will shrink slightly. This shrinkage generates strain in the freshly poured concrete, resulting in shrinkage fractures. To rule out this problem, bioconcrete was employed, which is made up


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DEPT. OF CIVIL ENGINEERING
Celebrates
NATIONAL REMOTE SENSING DAY
17TH AUGUST, 2023
Advanced Geospatial Technologies for Coastal Environment
Venue : 1st Floor, Training Hall, Sathyabama Research park
Dr. Vikram Sarabhai (1919-1971)
In the presence of
Chief Guest
Dr. O.M. Murali
Guest Speaker : Dr. E. Kumar
Dr O.M. Murali
Senior Associate, Chennai
Dr. E. Kumar,
Dept. of Minning Engineering,
Anna University
OVERVIEW OF THE EVENT
10:00 - 10:30 am
Inaugural session- Chief Guest Dr. O.M. Murali
10:30 - 10:45 am
Tea Time
10:45 - 11:45 am
Session 1 - Dr. O.M. Murali
Topic: Space technologies of the past, present and future to the sustainable coastal management.
11:45 - 12:45 pm
Session 2 - Dr. E. Kumar
Topic: Coastal Sustainable Development and Ecosystem Protection using UAV.
12:45 - 01:15 pm
Concluding Session and followed Lunch.
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materialstoday: PROCEEDINGS

Enhancement of the existing soil strength using the waste materials as a stabilization resource for sustainable development

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Abstract

Sandy soils are widely available in the Gulf region. The strength of the existing soil is improved by replacing the soil, field compaction, and stabilizing agents. In the study, fly ash and pet bottle strips were chosen as an admixture. Soil properties such as specific gravity, soil classification, liquid and plastic limit, maximum dry density, optimum moisture content and CBR have been studied and the soil composition is assessed by X-ray diffraction. 15%, 20% and 25% of fly ash and 0.5%, 1.5% and 4% of plastic pet bottle strips to dry weight of soil mass are added as stabilizing agents. Soil with 15 % of fly ash shows the maximum dry density with less optimum moisture content, with CBR of 18.8 % proving considerable rise in the bearing strength. Addition of 0.5% of plastic pet bottle shows the maximum dry density but the CBR is similar to the control soil.

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डिजाइन सं. / Design No.	:	388195-001
तारीख / Date	:	12/06/2023
पारस्परिकता तारीख / Reciprocity Date*	:	
देश / Country	:	

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो *UV REACTOR FOR WATER TREATMENT* से संबंधित है, का पंजीकरण, श्रेणी 23-01 में 1.Dr. Kumaraswamy J 2. Dr. V. Sampathkumar 3.Dr. S. Arunkumar 4.Dr. Subhash Chand 5.Mr. V. Hariprasath 6.Dr. C. Gnanavel 7.Dr. N. Poyyamozhi 8.Challa Parvathi Rudesh 9.Mr. S.Baskar 10.Dr. T. Vinod Kumar के नाम में उपर्युक्त संख्या और तारीख में कर लिया गया है।

Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class 23-01 in respect of the application of such design to *UV REACTOR FOR WATER TREATMENT* in the name of 1.Dr. Kumaraswamy J 2. Dr. V. Sampathkumar 3.Dr. S. Arunkumar 4.Dr. Subhash Chand 5.Mr. V. Hariprasath 6.Dr. C. Gnanavel 7.Dr. N. Poyyamozhi 8.Challa Parvathi Rudesh 9.Mr. S.Baskar 10.Dr. T. Vinod Kumar.

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In pursuance of and subject to the provisions of the Designs Act, 2000 and the Designs Rules, 2001.

जारी करने की तिथि : 27/09/2023
Date of Issue

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Groundwater for Sustainable Development



Wastewater recycling and groundwater sustainability through self-organizing map and style based generative adversarial networks

Jayasree R [a], Jayathilakraj S [b], Chandrakanth R [c], Bodi Reddy A [d], Sudhagaran R [e], Senthamil Selvan R [f]

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Highlights

- SOM-Style GAN combo improves groundwater distribution
- Self-Organizing Maps optimize the distribution of treated water in the high-demand area.
- SOM-Style GAN excels in water solutions, 0.97 fidelity
- Significant findings enhance water quality, advancing sustainable practices

Abstract

Wastewater recycling is a pivotal strategy in sustainable water management, designed to mitigate water scarcity and curb environmental pollution. This research introduces an innovative approach merging Self-Organizing Maps (SOM) and Style-Based Generator Generative Adversarial Networks (StyleGAN) to revolutionize wastewater recycling. SOM optimizes the distribution of treated water by identifying ideal locations for recycling outlets and treatment facilities. Meanwhile, StyleGAN enhances water quality by learning from diverse samples, producing purified water suitable for non-drinking purposes. The combination of SOM and StyleGAN maximizes resource utilization and addressing water scarcity challenges while minimizing environmental impact. Also, this method is not only optimizes treated water distribution but also enhances water quality, showcasing potential benefits for sustainable water practices, including groundwater replenishment.

materialstoday: PROCEEDINGS

Available online 22 July 2023

In Press, Corrected Proof ⓘ What's this?

Feasibility study on utilisation of discarded waste material as a partial replacement for coarse aggregate in concrete

R. Padmapriya [a], J.S. Sudarsan [b], N. Sumathi [c]

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https://doi.org/10.1016/j.matpr.2023.06.462 Get rights and content

Abstract

Electronic waste, or Discarded waste. The electronic goods that have become unwanted, non-functional, or out-of-date, and have meritoriously grasped the end of their worthwhile lives are known as Discarded waste. Aluminium, bronze, gold, silver, resins, and ferrous metals are just a few of the valuable, reusable materials that can be found in waste that has been discarded. All across the world, discarded waste disposal is a routine occurrence. The usage of Discarded waste materials is only a piece of the puzzle when it comes to environmental and ecological challenges. Concrete is the most significant engineering material, and changing the concrete philosophy may be more achievable by adding or replacing some of the ingredients. The research of concrete employing E trash

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Department of Civil Engineering

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ONLINE SHORT TERM COURSES

ICT – 85 APPROPRIATE TECHNOLOGIES INTERVENTIONS FOR RURAL DEVELOPMENT

Date : 11.09.2023 - 15.09.2023/ Oplan No.ICT – 85

Registration Link : https://fdp.nitttrchd.ac.in/backingup/index.php

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Department of Civil Engineering

Contents of the Appropriate Technologies Interventions for Rural Development

Date	Name of the Expert and Designation	Topics Discussed
11.09.2023 - 15.09.2023	Dr.Amit Goyal, Professor, NITTTR, Chandigarh	• Introduction to new technologies, • sustainable development of rural areas, innovative building materials

Outcomes

This short term course focused on Appropriate technology that makes use of skills and technology that are available in a local community to supply basic human needs



Feasibility Assessment on Electronic Waste (EW) as a Partial Reduction for Coarse Aggregate (CA) in Concrete

Conference paper | First Online: 21 November 2023

pp 591–597 | Cite this conference paper

R. Padmapriya ✉, J. S. Sudarsan, N. Sunmathi & Srihari Vedartham

Part of the book series: Lecture Notes in Civil Engineering ((LNCE,volume 388))

Included in the following conference series:
International Conference on Civil Engineering Innovative Development in Engineering Advances

191 Accesses

Abstract

Electronic waste consists of wrecked or undesirable substances with heavy metals that includes processers, electrical and electronic gadgets, and other microelectronic items rejected by their original users. The recycling of electronic waste becomes necessary because of it is available in huge quantities. Aluminium, bronze, gold, silver, resins, and ferrous metals are just a few of the valuable, reusable materials that can be found in waste that has been discarded. All across the world, discarded waste disposal is a routine occurrence. The usage of discarded waste materials is only a piece of the puzzle when it

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डिजाइन के पंजीकरण का प्रमाण पत्र | Certificate of Registration of Design

डिजाइन सं. / Design No. : 388645-001

तारीख / Date : 19/06/2023

पारस्परिकता तारीख / Reciprocity Date* :

देश / Country :

प्रमाणित किया जाता है कि संलग्न प्रति में वर्गित डिजाइन जो *WATER FILTRATION AND COOLING SYSTEM* से संबंधित है, का पंजीकरण, श्रेणी 23-01 में 1.Dr Kumaraswamy J 2. Dr N Beemkumar 3.Dr Subhash Chand 4.Dr V Sampathkumar 5.Mr P Padmalosan 6.Mr Ajay Partap Singh 7.Dr S Gnanam 8.Dr R Pugazhenthi 9.Dr M Chandrasekar 10.Dr S Jacob के नाम में उपर्युक्त संख्या और तारीख में कर लिया गया है।

Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class 23-01 in respect of the application of such design to *WATER FILTRATION AND COOLING SYSTEM* in the name of 1.Dr Kumaraswamy J 2. Dr N Beemkumar 3.Dr Subhash Chand 4.Dr V Sampathkumar 5.Mr P Padmalosan 6.Mr Ajay Partap Singh 7.Dr S Gnanam 8.Dr R Pugazhenthi 9.Dr M Chandrasekar 10.Dr S Jacob.

डिजाइन अधिनियम, 2000 तथा डिजाइन नियम, 2001 के अध्यधीन प्रावधानों के अनुसरण में।
In pursuance of and subject to the provisions of the Designs Act, 2000 and the Designs Rules, 2001.

जारी करने की तिथि / Date of Issue 11/10/2023

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MEMORANDUM OF UNDERSTANDING

BETWEEN

SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY

CHENNAI

AND

TECHAPPS CONSULTING, CHENNAI

The **Memorandum of Understanding** (hereinafter called as the 'MoU') is made on 21.09.2023 between Sathyabama Institute of Science and Technology, Jeppiaar Nagar, Rajiv Gandhi Road, Chennai -600 119. Tamilnadu, INDIA (herein referred to as **FIRST PARTY)** and **TechApps Consulting,** C/2/4, Akila Heights, Sembakkam, Chennai – 600 073, Tamil Nadu, INDIA (herein referred to as **SECOND PARTY)**

Now this agreement witness as follows:

1. The First Party is **Sathyabama Institute of Science & Technology, Chennai**, a Deemed to be University established under Section 3 of UGC Act 1956, to conduct the technical programs at the University premises (https://www.sathyabama.ac.in)
2. The Second Party is **TechApps Consulting, Chennai,** is into providing employment based value added certified courses like STAAD. Pro, Foundation Advanced, RCDC (Reinforced Concrete Detailing), Construction Management Tools available for academics for Civil Engineers and Construction Professionals (www.techappsconsulting.in)
3. Both the parties have the common interest of training the students and making them industry ready by the time they come out of the institution. Both the parties believe that close cooperation between the two would be of major benefit to the student community to enhance their skills and knowledge.

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School of Building and Environment

DEPARTMENT OF CIVIL ENGINEERING

Organises Expert Talk



TOPIC :
Benteley Advanced infrastructure technology for academics

RESOURCE PERSON

Arun Kumar,
Global Manager - Education Program
Benteley System



TOPIC:
Briefing on MoU

RESOURCE PERSON

S. Rajesh Kumar,
Director,
TechApps Consulting
Chennai.

TIME : 11:30 AM to 12:30 PM **DATE :** 21.09.2023

Venue : Seminar Hall, Department of Civil Engineering

CHIEF PATRONS :
Dr. Mariazeena Johnson, Chancellor
Dr. Marie Johnson, President
Mr. J. Arul Selvan, Vice President
Ms. Maria Bernadette Tamilarasi, Vice President
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CONVENERS:
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Department of Civil Engineering

Contents of the Bentley Advanced Infrastructure Technology for Academics

Date	Name of the Expert and Designation	Topics Discussed
21.09.2023	Mr.Arunkumar Global Manager Bentely systems Mr.Rajeshkumar Director Techapps consulting, Chennai	Introduction to softwares in Civil Engineering Applications of Stadd software in Civil Engineering design

Outcomes

This expert talk focussed on application of STAAD Pro, in analysis and design of civil engineering structures such as buildings, bridges, dams, canals, sewage systems, plane and space trusses.



Municipal Administration and Water Supply Department

From	To
Commissioner, Sirkali Municipality, commr.sirkazhi@tn.gov.in	Sathyabama Institute of Science & Technology, Rajiv Gandhi Salai, Chennai.

ROC No:798/2023/E1

Date:27.06.2023

Sir/Madam,

Subject: Tamilnadu Assembly Announcement 2023-2024-Sirkali Municipality-Improvement of New Bus Stand-CC Pavement Design.-Demand Accepted reg.

As per your letter dated:-16.06.2023, We have accepted the demand of Rs.1,00,000/- for consultancy work for field and laboratory test and pavement design with recommendation for proposed improvement of new bus stand -CC Pavement.

27/6/23

Commissioner,
Sirkali Municipality.

27/6/23

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SCHOOL OF BUILDING AND ENVIRONMENT

DEPARTMENT OF CIVIL ENGINEERING

in association with

BIRLA SHAKTI CEMENTS

Organizes one day workshop

BUILDATHON

Cube Competition

Date:07.03.2024 Venue: Concrete lab, Civil Department
Time: 9.30 am to 1.15 pm

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Dr.P.Eshanthini
Mr.J.Vanjinathan
Mr.P.Padmalosan

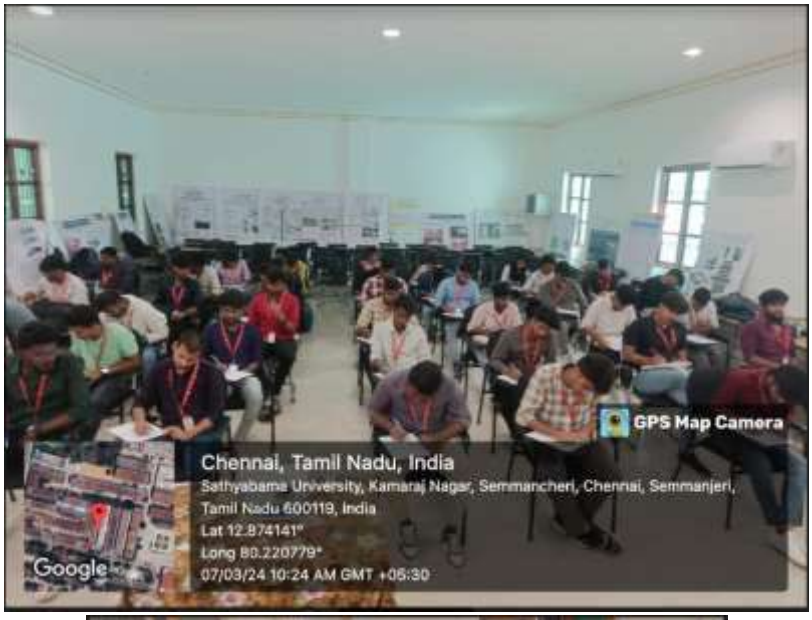
School of Building and Environment
Department of Civil Engineering

Contents of the Training cum Workshop on BIRLA CUBE Competition

Date	Name of the Expert and Designation	Topics Discussed
07.03.2024	Mr.S.Saravanan, Birla Shakti Cements, Chennai Mr.Narayanamoorty, Birla Shakti Cements, Chennai	Introduction to concrete, Mix design as per Indian Standards

Outcomes

This workshop enabled the students to prepare mix design as per Indian Standards and casting of cube, testing for compressive strength.


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School of Science and Humanities

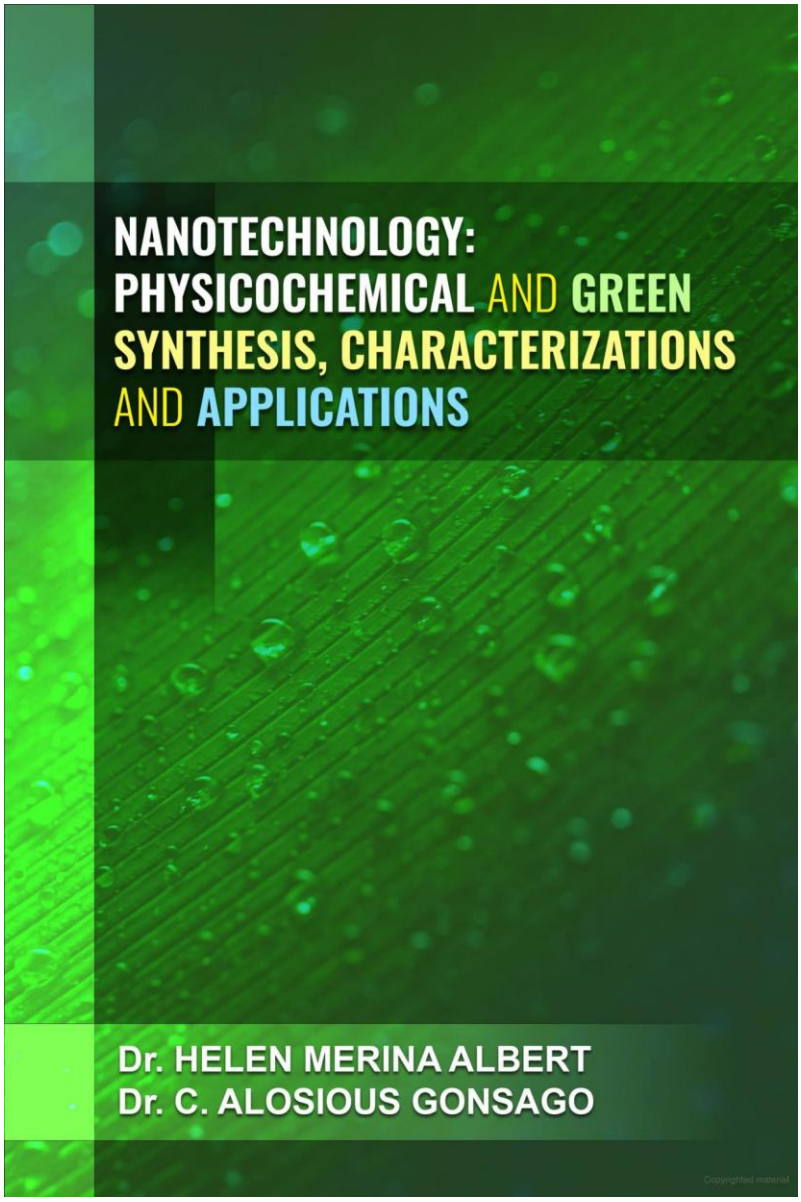
Department of Physics

Criteria 3.7.1

3.7.1 Number of collaborative activities with other institutions/ research establishment/industry for research and academic development of faculty and students during the year
3.7.1.1: Total number of Collaborative activities with other institutions/ research establishment/industry for research and academic development of faculty and students during the year

Sl. No.	Title of the collaborative activity	Name of the collaborating agency with contact details	Name of the participant	Year of collaboration	Duration	Nature of the activity
1	Book Publication	Mohamed sathak A.J.college of Engineering	Dr. Helen Merina Albert	2023	1 yr	Research
2	Paper Publication	University of Sharjah, Sharjah, United Arab Emirates.	Dr. K. Vijai Anand	2023	1yr	Research
3	Paper Publication	Nanotechnology & Catalysis Research Centre, University of Malaya, Kuala Lumpur, 50603, Malaysia	Dr. J. Anitha Lett	2023	1yr	Research

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ARTICLE | April 26, 2024

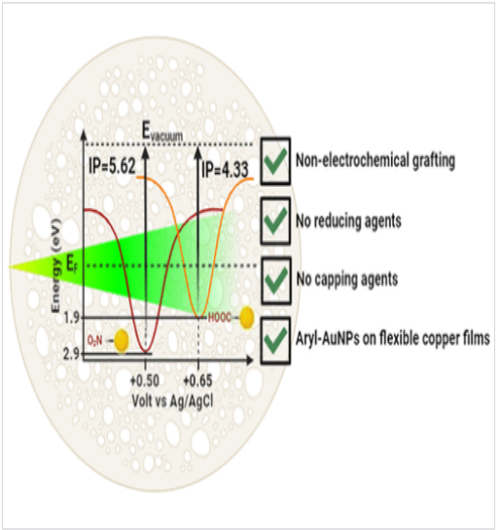
Flexible Copper Films Modification via Spontaneous Reduction of Aryldiazonium Gold Salts: Unraveling Surface Properties and Energy Profile

Javad B. M. Parambath, Kabali Vijai Anand*, Hussain Alawadhi, and Ahmed A. Mohamed*

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Abstract

In this study, we report the modification of flexible copper films via the spontaneous reduction of aryldiazonium gold salts [X-4-$C_6H_4N{\equiv}N]AuCl_4$ (X=COOH, NO_2). The electroless modification involves dipping of flexible copper films in the aryldiazonium gold solutions for a few seconds, under ambient conditions, followed by a washing step with deionized water to obtain a mechanically robust gold-aryl coating. The chemical composition, morphology, electronic structure, and optical properties of the gold-aryl layer and the flexibility of the modified copper films are supported by the results from X-ray photoelectron spectroscopy (XPS), electrochemistry, contact angle, scanning electron microscopy (SEM), and ultraviolet photoelectron spectroscopy (UPS). XPS surface analysis showed metallic gold in addition to C−C, C−O/C−N, and C=O functional groups from the



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Journal of Drug Delivery Science and Technology 99 (2024) 105958

Contents lists available at ScienceDirect

Journal of Drug Delivery Science and Technology

journal homepage: www.elsevier.com/locate/jddst

Review article

Enhancing biocompatibility and functionality: Carbon nanotube-polymer nanocomposites for improved biomedical applications

Maghimaa M [a,**], Suresh Sagadevan [b,*], Boojhana E [c], Is Fatimah [d], J. Anita Lett [e], Srikanta Moharana [f], Seema Garg [g], Mohammed A. Al-Anber [h]

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[b] Nanotechnology & Catalysis Research Centre, University of Malaya, Kuala Lumpur, 50603, Malaysia
[c] Department of Microbiology, Muthayammal College of Arts and Science, Rasipuram, Namakkal, 637408, Tamil Nadu, India
[d] Department of Chemistry, Faculty of Mathematics and Natural Sciences, Universitas Islam Indonesia, Kampus Terpadu UII, Jl. Kaliurang Km 14, Sleman, Yogyakarta, Indonesia
[e] Department of Physics, Sathyabama Institute of Science and Technology, Chennai, Tamil Nadu, India
[f] School of Applied Sciences, Centurion University of Technology and Management, Odisha, India
[g] Department of Chemistry, Amity Institute of Applied Sciences, Amity University, Sector-125, Noida, 201313, Uttar Pradesh, India
[h] Department of Chemistry, Faculty of Sciences, Mutah University, P.O. Box 7, 61710, Al-Karak, Jordan

ARTICLE INFO

Keywords:
Carbon nanotubes
Polymer
Nanocomposites
Tissue engineering
And biosensors

ABSTRACT

Nanotechnology and biomedical science have led to substantial advances in the development of novel materials for healthcare applications. Among these, carbon nanotube-polymer nanocomposites have attracted immense interest. By combining the adaptability and biocompatibility of polymers with the distinct mechanical, electrical, and chemical properties of carbon nanotubes, these nanocomposites provide a flexible platform for the biomedical applications. They have been specifically investigated for their antimicrobial and anticancer potential, effective drug delivery, improved tissue engineering, and the development of extremely sensitive and unique biosensors. Incorporating carbon nanotubes into polymer substrates greatly increases their mechanical stability and robustness, which is a vital requirement for biomedical applications necessitating durable materials. Furthermore, carbon nanotubes can be used as electrodes in bioelectronic devices or as a component in the electrically activated drug delivery systems owing to their exceptional electrical conductivity. Carbon nanotube-polymer nanocomposites are becoming the attractive options for a variety of biomedical applications such as controlled drug release, neurological prosthetics, biosensing, and tissue regeneration. This review addresses the structure, synthesis, and preparation of carbon nanotube-polymer nanocomposites, highlighting their significance and application in the field of biomedicine.

1. Introduction

Nanotechnology has attracted the interest of researchers owing to its wide range of applications in the fields of medicine and biology [1]. Recent research has shown particular interest in the dual-function evaluation of metal-based nanoparticles (NPs) for biomedical purposes [2]. Nanocomposites (NCs) are solid materials with three-dimensional phases, each less than 100 nm in size, that can be modified for specific environments [3]. The NCs system opens new opportunities in various biomedical fields. These customized NCs can be used for drug delivery, tissue engineering, infectious diseases, therapeutic agents, anticancer agents, and biosensor systems [4]. The physical and chemical properties of the NCs are crucial for their effectiveness in these applications. In the context of tissue/bone regeneration, the nanocomposite promote extracellular matrix stimulation and also improves cell adherence and proliferation [5]. Their high surface-area-to-volume ratio increases the drug loading capacity, resulting in the controlled release of kinetics for targeted therapy [6]. Nanocomposite-based biosensors with exceptional sensitivity and specificity are used for early disease detection and monitoring [7].

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** Corresponding author.
E-mail addresses: maghimaam@gmail.com (M. M), drsureshsagadevan@um.edu.my (S. Sagadevan).

https://doi.org/10.1016/j.jddst.2024.105958
Received 20 April 2024; Received in revised form 3 July 2024; Accepted 8 July 2024
Available online 9 July 2024
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SATHYABAMA COLLEGE OF NURSING

3.7.1 PROOF

1. Simulation training-TOT of Nurses



2. Essence Of Oncology And Escalating Nursing Strategies



MOHAMED SATHAK A J COLLEGE OF NURSING

(Recognized By Indian Nursing Council & Tamil Nadu Nurses and Midwives Council
Affiliated To The Tamil Nadu Dr. M.G.R. Medical University)
34, Rajiv Gandhi Road (OMR), IT Highway, Siruseri, Egattur, Chennai - 603 103.
Ph: 044 27470037, 27470028, Email: msajcon@yahoo.co.in

Certificate Of Participation

This certificate is awarded in appreciation of the contribution / participation of

Mr. / Ms. ANUPRIYA. S as a ~~Moderator~~ /~~Organizer~~ / Delegate in the

WORKSHOP: ESSENCE OF ONCOLOGY AND ESCALATING NURSING STRATEGIES

held on 17.04.2024 at Mohamed Sathak A J College of Nursing, Chennai.

Credit hours awarded by the Tamil Nadu Nurses and Midwives Council .....7.....

Organising Secretary

Principal

Chairman

3. Gene Mutation



VELS

VENKATESWARA NURSING COLLEGE

A unit of VELS Group, Pallavaram

Thalambur, Chennai - 600130

Certificate

This is to certify that Dr. / Mr. / Ms. JOHANNA PAUL S has Organized / Resource Person / Participant in the 5TH STATE LEVEL CONFERENCE ON "GENETIC AND GENOMIC FRONTIERS IN PEDIATRIC HEALTH CARE - EMERGING TECHNOLOGY AND BREAK THROUGH TO PRACTICE" organized by Venkateswara Nursing College on 22nd June 2024. We thank him / her for his / her valuable contribution in making the conference a success. The Credit hours awarded by Tamilnadu Nurses and Midwives Council is 6.

ORGANISING CHAIRPERSON

Dr. (Mrs.) Ciby Jose, M.Sc (N), PGDGC, Ph.D (N),

Principal,

Venkateswara Nursing College,

Thalambur, Chennai.

CHIEF PATRON

Dr. Ishari. K. Ganesh,

Chancellor – VELS University,

Founder – Chairman,

VELS Group of Institutions,

Pallavaram, Chennai.

Memorandum of Understanding
Between

SMART Home Healthcare solutions Pvt Ltd
HTIC (Healthcare Technology Innovation Centre)
IIT Madras Research Park
Taramani, Chennai- 600113

And

Sathyabama Institute of Science and Technology
Jeppiaar Nagar, Rajiv Gandhi Road,
Sholinganallur, Chennai,
Tamil Nadu 600119, India

This Memorandum of Understanding (MoU) made and entered into on — by and between the following two entities:

SMART Home Healthcare Solutions Pvt Ltd
SMART Home Healthcare Solutions Pvt Ltd, located at Incubation cell, IIT Madras Research Park, has developed two mobile applications which focus on Physiotherapy. The first one, AeglePro is a clinical management software which aims at reducing operational costs of running a Physiotherapy centre, along with helping to standardize the quality of practice among therapists in a centre. The second application called URHAB is an AI based online Physiotherapy and Digital Rehab platform which makes makes quality Physiotherapy accessible to all. Through URHAB, patients can obtain quality Physiotherapy from their homes or workplace. URHAB's exercise library and AI counter provide continuous support to patients to ensure correctness and consistency of exercises.

Sathyabama Institute of Science & Technology, a Deemed to be University established under Section 3 of UGC Act, 1956, located at Jeppiaar Nagar, Rajiv Gandhi Road, Shollinganallur, Chennai, Tamil Nadu, India, represented by **Dr. T. Sasipraba, Vice Chancellor**

1. This Memorandum of Understanding (MoU) has come into existence as a result of the efforts of Dr. Deepa. S, Assistant Professor, College of Physiotherapy, Sathyabama Institute of Science and Technology for the purpose of developing academic and research co-operation and to promote mutual understanding between the two parties.

2. The two Parties agree to develop the following collaborative activities in the areas of mutual interest.

   i. Joint Research
   ii. Joint seminar & conference
   iii. Exchange of facilities and resources
   iv. Joint Publications
   v. Other activities as mutually agreed

3. The development and implementation of specific activities based on this MoU will be separately negotiated and agreed between faculties, departments, schools or institutes, which carry out the specific projects.

4. It is understood that the parties will support each other at their own costs for the collaborative activities stated in Clause 2.

5. This MoU may be amended or modified by a written agreement signed by the representatives of both parties.

6. This MoU is valid for a period of 3 years from the date of signing by both parties. This MoU shall be renewed after being reviewed and renegotiated by both parties.

7. The agreement may be terminated by either party with advanced written notice of 3 months.

8. No changes can be made to this MoU without written consent and duly signed by both parties.

9. All information exchanged between Parties in connection with this MoU or during discussions preceding this MoU and relating to this MoU or to any matter contemplated by this MoU, and any discussions held between the Parties are CONFIDENTIAL to them and may not be disclosed to any third party during the period of this MoU.

For **SMART Home Healthcare Solution Pvt Ltd**

Signature: R. Arun

Name: **Arun Kumar Ramasamy**

Designation: **Co-founder**

Date: 13/5/24

SMART Home Healthcare Solutions Pvt. Ltd. CHENNAI 600 131.

For **Sathyabama Institute of Science and Technology**

Signature:

Name: **Dr. T. Sasipraba**

Designation: **Vice Chancellor**

Date: 10/5/24

SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY

Statement of work

By Dr. Deepa.S,Assistant Professor, Principal Investigator,
&
Dr. Priya Kumari, Assistant Professor, Co- Principal Investigator,

Sathyabama College of Physiotherapy,
Sathyabama Institute of Science and Technology
For
SMART Home Healthcare Solutions Pvt Ltd
HTIC, IIT Madras Research Park, Taramani, Chennai 600113

Date: 16th May 2024

SOW #2024001

Introduction

URHAB is an online physiotherapy and rehab platform (www.urhab.com) developed by SMART Home Healthcare Solutions Private Limited based at IIT Madras Research Park, Taramani, Chennai 600113. The platform is now in the validation and early use stage and the company is engaging Dr.Deepa. S and Dr. Priya Kumari to conduct research studies and publish the results of the same in leading research journals of Physiotherapy.

Dr. Deepa. S & Dr. Priya Kumari will perform the studies and publish the research results in reputed journals as described in this contract.

This contract will be governed by the existing MoU between Sathyabama Institute of Science and Technology and SMART Home Healthcare Solutions Pvt Ltd, dated

Purpose and objective

The purpose of this project is to conduct a series of studies to ultimately determine the improvement and effectiveness of the URHAB platform. The project objectives are :

1. Determine the studies that can be conducted to research the platform and determine the order in which they need to be conducted
2. Conducting the studies, obtaining data and analyzing the results
3. Writing of the manuscripts
4. Submission for Publication

Study Topics

- Topics of study and the order in which they will be performed along with timelines will be discussed over a virtual meeting on a mutually agreeable date. The plan will be finalized within the first fortnight post execution of this contract.

Tasks

Dr. Deepa. S & Dr. Priya Kumari will complete the following tasks as part of this project:

SNO.	WEEK	PLAN
	1	• LEARNING ABOUT THE PLATFORM • INITIAL MEETING WITH SHHS TEAM TO DETERMINE OBJECTIVES • DETERMINING THE STUDY TOPICS • FRAMING THE PHASES • COLLECTION OF ARTICLES • DETERMINING POPULATION, INCLUSION AND EXCLUSION CRITERIA AND OUTCOME MEASURES TO BE USED
	2,3	• PREPARING MATERIALS • IDENTIFYING SUBJECTS • APPROACHING SAMPLES • PREPARING RESEARCH PROPOSAL FOR ETHICAL CLEARANCE • OBTAINING ETHICAL CLEARANCE • REGISTERING OF TRIAL
	4	• IDENTIFYING SUBJECTS WHO FIT THE CRITERIA • ONBOARDING THE SAMPLES
	4,5,6	• DATA COLLECTION FROM INDIVIDUALS
	7	• OBTAINING AND ANALYZING RESULTS • MANUSCRIPT WRITING

The following tasks are not included in this contract scope:

- DATA MODIFICATION

Schedule

This project will follow the below estimated schedule:

Task/project phase	Target end date
Literature Review/ Reviews	
Pilot study	
Initial Study Planning & Clinical Trial registration	
Data Collection	
Manuscript preparation and Review	

Any delay to the planned time will need to be mutually discussed and approved beforehand in writing.

Location

All work related to this project will occur at the location determined by Dr. Deepa. S & Dr. Priya Kumari

Milestones and Payment schedule

The total budget planned is Rs.1,00,000 for this project, not to be exceeded. Payments will be made according to the following schedule:

Task	Payment Amount
Review of Literature manuscript	Rs. 25,000
Clinical trail registration for main study	Rs. 25,000
Completion of manuscript for main study	Rs. 50,000

Resources

Dr. Deepa S and Dr. Priya Kumari will onboard resources as needed to complete the project on time.

Special terms and conditions

Dr. Deepa. S & Dr. Priya Kumari and team will share a formal weekly status report through video conferencing and email detailing the activities, accomplishments and the actual completion status against the plan.

IP Rights

As the current product was developed solely by SMART Home Healthcare Solutions and the current contract only seeks validation of the tool, IP rights will be solely owned by SMART Home Healthcare Solutions. Sathyabama University will not have any IP rights to URHAB in it's current and future versions.

Signatures

Signed and agreed to by:

Dr. Deepa. S

Assistant Professor

Sathyabama College of
Physiotherapy, Sathyabama Institute
of Science and Technology

13/5/24

[Date]

Dr. Priya Kumari

Assistant Professor

Sathyabama College of
Physiotherapy, Sathyabama Institute
of Science and Technology

13/05/2024

[Date]

Dr. Srividhya Kesavan(PT)

Consultant Physiotherapist

SMART Home Healthcare
Solutions Pvt Ltd

13/05/24

[Date]

TICEL

SATHYABAMA INNOVATION COUNCIL
(A Section 8 Company Under Companies Act 2013)

MEMORANDUM OF UNDERSTANDING (MOU)

BETWEEN

TICEL BIO PARK LIMITED
CHENNAI
(COMPANY INCORPORATED UNDER COMPANIES ACT 1956)

&

SATHYABAMA INNOVATION COUNCIL
(REGISTERED AS SECTION 8 COMPANY UNDER THE COMPANIES ACT 2013)

TICEL BIOPARK LTD. CHENNAI 600

Sathyabama Innovation Council SIC

MEMORANDUM OF UNDERSTANDING

M/s. TICEL Bio Park Limited, a company incorporated under the Indian Companies Act, 1956, having its registered office at Taramani Road, Taramani, Chennai – 600 113, represented herein by its **Managing Director, Mr. P. Poongumaran,** (hereinafter referred to as "**First Party**", company which expression, unless excluded by or repugnant to the subject or context shall include its successors – in-office, administrators and assigns).

And

Sathyabama Innovation Council Registered as Section 8 Company under the companies act 2013, having its registered office at Jeppiaar Nagar, Rajiv Gandhi Salai, Chennai - 600 119, represented herein by its **Head of Incubator, Mr G Daniel Prabhakaran** (hereinafter referred to as "**Second Party**", company which expression, unless excluded by or repugnant to the subject or context shall include its successors – in-office, administrators and assigns).

WHEREAS TICEL declares, confirms and represents that it is the absolute owner of the land having acquired the same by way of Government Order No:225 ***Revenue Department*** 24 dated 12.5.2003 annexed hereto as Exhibit-I for the establishment of a Bio technology park the "TICEL Bio Park Limited" situated at No.5, CSIR Road, Taramani, Chennai – 600 113, Tamil Nadu hereunder and has full, valid and requisite authority and power to enter into this Lease Deed to lease the Demised Premises (defined below) to Lessee.

WHEREAS TICEL Bio Park Limited had developed Biotech Common Instrumentation Facility at TICEL Bio Park – Phase II at Chennai to be used **for BIO R&D Startups.**

Sathyabama Innovation Council is mainly focusing its area on Deep Tech, Life Sciences and Environmental Technologies startups at Sathyabama Institute of Science and Technology, Chennai

Parties believe that collaboration and co-operation between themselves will promote more effective use of each of their resources and provide each of them with enhanced opportunities.

A. The Parties intent to cooperate and focus their efforts on cooperation within area of Skill Based Training, Technology collaboration, start-ups mentoring and Education and Research including promote interaction and collaboration.

B. Both Parties, being legal entities in themselves desire to sign this MOU for advancing their mutual interest;

NOW THEREFORE, IN CONSIDERATION OF THE MUTUAL PROMISES SET FORTH IN THIS MOU, THE PARTIES HERETO AGREE AS FOLLOWS:

1. CO-OPERATION

1.1 Both Parties are united by common interests and objectives, and they shall establish channels of communication and co-operation that will promote and advance their respective operations within the Institution and its related wings. The Parties shall keep each other informed of potential opportunities and shall share all information that may be relevant to secure additional opportunities for one another.

1.2 First Party and Second Party co-operation will facilitate effective utilization of facilities between the parties providing significant contributions to industries and other institutes in developing suitable teaching / training systems, keeping in mind the market demand.

1.3 The general terms of co-operation shall be governed by this MoU. The Parties shall cooperate with each other and shall, as promptly as is reasonably practical, enter into all relevant agreements, deeds and documents (the 'Definitive Documents') as may be required to give effect to the actions contemplated in terms of this MoU. The term of Definitive Documents shall be mutually decided between the Parties. Along with the Definitive Documents, this MoU shall represent the entire understanding as to the subject matter hereof and shall supersede any prior understanding between the Parties on the subject matter hereof.

2. No Partnership or Agency:

2.1 The Parties are independent contractors. Neither Party shall have any right, power or authority to enter into any agreement, or incur any obligation or liability, for, or on behalf of, the other. Nothing in this MOU shall be interpreted or construed to create an association or partnership between the Parties, deem them to be persons acting in concert, or to impose any liability attributable to such relationship to either of them, nor shall either Party be deemed to be the agent of the other, or entitled to commit or bind the other Party, in any manner, for any purpose.

2.2 Nothing in this MoU shall create or be deemed to create any third-party beneficiary rights in any Person not a party to this MOU.

3. SCOPE OF THE MoU

3.1. Co-Incubation opportunities: The two parties will explore opportunities of co-incubation with mutual sharing of equipments and resources, mentorship, market access.

3.2. Joint academic activities and events: Sathyabama Innovation Council & TICEL Bio Park may formulate joint academic activities such as short course, seminars, workshops, or conferences based on mutual interests and available expertise in both the institutions, in areas of Skill Based Training, Technology collaboration, start-ups mentoring and Education and Research including promote interaction and collaboration.

3.3. They may also share and carry out joint research in technology for distance and vocational and computer-based learning.

3.4. There can be financial commitment on the part of both parties to take up any program mentioned in the MoU and can be dealt separately.

4. REPRESENTATIONS AND WARRANTIES:

Each Party hereby represents and warrants that:

a) it is duly organized and validly existing under applicable laws;
b) it has full power and authority to execute and deliver this MOU;
c) its signatory is duly authorized to execute this MoU for and on behalf of the relevant Party; and
d) it has all the requisite legal and organizational power to carry out and perform its obligations under the terms of this MOU.

5. CONFIDENTIALITY

Each Party shall treat and ensure that its directors, partners, members, office bearers, officers, managers, members, employees, legal, financial and professional advisors (collectively, "**Representatives**") shall treat as strictly confidential, and not reveal to any third party without the prior written consent of the other Party, any confidential information received or obtained from the other Party as a result of entering into or performing this MOU.

Sathyabama Innovation Council SIC

TICEL BIOPARK LTD. CHENNAI 600

Exceptions: The provisions of this Article shall not apply to:

a. disclosure of information that is or becomes generally available to the public other than as a result of disclosure by or at the direction of a Party or any of its Representatives in violation of this MOU.
b. disclosure by a Party to its Representatives provided such Representatives are bound by similar confidentiality obligations.
c. disclosure, after giving prior notice to the other Party to the extent practicable under the circumstances and subject to any practicable arrangements to protect confidentiality, to the extent required by law or legislative or judicial or regulatory process.

6. INTELLECTUAL PROPERTY

6.1. All intellectual property rights of a Party developed/acquired prior to or independently of this MOU ("**Pre-Existing IP**"), shall belong exclusively to such Party, and this MOU shall not be construed as giving either Party any rights over such Pre-Existing IP of the other Party. All intellectual property created jointly by the Parties, or created for the purposes of this MOU or to achieve the purpose and objective of the MOU, shall belong jointly to all the Parties, unless specifically agreed otherwise.

6.2. Each Party is given limited rights to use the trademark/tradename/logo of the other Party for the purpose of any press releases or promotions related to the objectives of this MOU, with prior permission of the Parties, to form part of any presentations made by either Party under this MOU.

7. TENURE AND TERMINATION

7.1. This MoU will take effect from the date it is signed by representatives of the two institutions. It will remain valid for a period of two years and may be continued thereafter after suitable review and agreement by both the institutes.

7.2. Either institution may terminate the MoU by giving a written notice to the other, three months in advance. Once terminated, neither **Sathyabama Innovation Council** nor TICEL Bio Park will be responsible for any losses, financial or otherwise, which the other institution may suffer. However, **Sathyabama Innovation Council** and TICEL Bio Park will ensure that all activities in progress are allowed to complete successfully.

8. MODIFICATIONS:

This MOU may be amended only by an instrument in writing signed by duly authorised representatives of each of the Parties.

9. RELATIONSHIP BETWEEN THE PARTIES

9.1 It is expressly agreed that First Party and Second Party are acting under this MoU as independent contractors, and the relationship established under this MoU shall not be construed as a partnership. Neither Party is authorized to use the other Party's name in any way, to make any representations or create any obligation or liability, expressed or implied, on behalf of the other Party, without the prior written consent of the other Party. Neither Party shall have, nor represent itself as having, any authority under the terms of this MoU to make agreements of any kind in the name of or binding upon the other Party, to pledge the other Party's credit, or to extend credit on behalf of the other Party.

9.2 Any divergence or difference derived from the interpretation or application of the MoU shall be resolved between the Parties by mutual negotiations in the first instance failing which the same shall be resolved by arbitration between the parties as per the Arbitration Act, 1996. The place of the arbitration shall be at Chennai. This undertaking is to be construed in accordance with Indian Law with exclusive jurisdiction in the Courts of **Chennai.**

10 SEVERABILITY:

If any provision, paragraph, sentence, or word of this MOU is declared void by a Court of competent jurisdiction; then the provision, paragraph, sentence, or word will be severed from this MOU, and the remainder of the MoU will remain in effect.

11 COUNTERPARTS:

This MoU may be executed in any number of counterparts and by the Parties to it on separate counterparts, each of which shall be an original but all of which together shall constitute one and the same instrument. The delivery of signed counterparts by facsimile transmission or electronic mail in 'portable document format' ('.pdf') shall be as effective as signing and delivering the counterpart in person





AGREED:

For Sathyabama Innovation Council	For **TICEL BIO PARK LIMITED**
Head of Incubator **Sathyabama Innovation Council** Jeppiaar Nagar, Rajiv Gandhi Salai, Chennai - 600 119 E-mail: startup@sathyabama.ac.in	**Managing Director** **TICEL Bio Park Limited** No.5, CSIR Road, Taramani, Chennai – 600 113 E-mail: md@ticelbiopark.com Website: www.ticelbiopark.com

Date : 08.08.2023

Witness 1:
Hepsibah Shaar
Startup Liaison Officer
SIC

Witness 2:
M. Balaji
Balaji Manisamy
CEO – Drobots tech
Chennai – 91

Witness 1:
Shayath
Company Secretary
TICEL BIO PARK LTD
No.5, CSIR Road
Taramani, Ch-113

Witness 2:
E. Priya
(E. PRIYA)
Sector Expert-Biotech
TIDCO

- NSCMB FEB RAS (/index.php/en/)
- We are 50! (/index.php/en/we-are-50)
- **News & Announcements (/index.php/en/news-announcements)**
- Structure of NSCMB FEB RAS (/index.php/en/structure-of-nscmb-feb-ras)
- Laboratories (/index.php/en/laboratories)
- International cooperation (/index.php/en/international-cooperation)
- Conferences (/index.php/en/conferences)

Contacts:

Palchevskogo str. 17

Vladivostok, Russia, 690041

Phone: +7 (423) 2310905

Online-conference with the Indian Institute of Science Education and Research, Kolkata (IISER-Kolkata) and Satyabama Institute of Science and Technology (SIST)

Published: 06 September 2023

On the 23rd of August, the joint online-conference with the Indian Institute of Science Education and Research, Kolkata (IISER-Kolkata) and Satyabama Institute of Science and Technology (SIST) was held in A.V. Zhirmunsky National Scientific Center of Marine Biology FEB RAS, Vladivostok.

This online-conference was aimed at the mutual familiarization with the activities of these scientific organizations and determination of scientific directions for the further strengthening of cooperation.

From the Russian side, the NSCMB FEB RAS was represented by the Director of **Igor. Yu. Dolmatov**, Corr. Member of RAS, Deputy Director for International Cooperation Ph.D. **Konstantin A. Lutaenko**, the Director of the Scientific-Educational Center “Primorsky Aquarium”, Branch of the NSCMB FEB RAS, **Olga G. Shevchenko**, the Scientific Head of the Laboratory of Deep-Sea Research Ph.D. **Tatyana N. Dautova**, the Scientific Head of the Laboratory of Physiology Ph.D. **Igor I. Puschin** and Communication Specialist of International Cooperation Department in “Primorsky Aquarium” **Natalia V. Miroshnikova**.

Fax: +7 (423) 2310900

nscmb@mail.ru (/"mailto:nscmb@mail.ru)



The Indian side was represented by Prof. **Punyasloke Bhadury**, Dr. **Anwesha Ghosh**, Mr. **Arkaprava Mandal**, Dr. **Amit Kumar**, Mrs. **Nirupama Saini** and Mr. **Yash**.

The webinar was started with greetings of the Heads of these organizations: Prof. Punyasloke Bhadury and Directors – Igor Yu. Dolmatov and Olga G. Shevchenko.

The conference consisted of two sessions, during which the participants of both sides made short reports-presentations. The Deputy Director for International Cooperation of the Center Dr. Konstantin A. Lutaenko presented the report “NSCMB FEB RAS and its activities”. His report included information on research conducted in the NSCMB FEB RAS, the basic directions of the work, international scientific activities, and emphasized the important scientific achievements of the Center.

Prof. Punyasloke Bhadury submitted the report “IISER Kolkata and Centre For Excellence in Blue Economy – the genesis”.

Indian Institutes of Science Education and Research (IISERs) were established as autonomous institutes for higher education by then Ministry of Human Resource Development (now Ministry of Education), Government of India, to promote high quality education and research in basic sciences. The first two institutes, under this initiative, were IISER Kolkata (IISER-K) and IISER Pune in 2006, followed by IISER Mohali in 2007, and IISER Bhopal and IISER Thiruvananthapuram in 2008, IISER Tirupati in 2015, and IISER Berhampur in 2016.

The Institute has flexible academic programs and possesses a modern research base. At the present time, it includes 7 academic departments (Biological Sciences, Chemical Sciences, Earth Sciences, Mathematics & Statistics, Physical Sciences, Computational and Data Sciences and Humanities and Social Sciences) and five Centers for excellence: Center for Excellence in Space Sciences India supported by the Ministry of Education, National Centre for High Pressure Studies, supported by the Ministry of Earth Sciences, “Centre for Advanced Functional Materials (CAFM)” supported by the Institute; and two interdisciplinary Centers created with the Institute initiative are "Centre for Climate and Environmental Studies" and "Centre for Large-Scale Computing".

The IISER Institute has established partnerships with various national and international universities/institutes for student and faculty exchange.

The Head of the Laboratory of Deep-Sea Research in the NSCMB FEB RAS Tatyana N. Dautova presented the report “Corals as indicators of the vulnerable marine ecosystems —state of knowledge and perspectives” and also showed the video-film “Comprehensive studies of the ecosystems of the southern part of the Imperial Ridge, Pacific Ocean”, which was made in 2021 during the cruise 94 of the R/V “Academician Lavrentiev”.

Dr. Anwesha Ghosh submitted his report “Environmental emergence of antimicrobial resistance: a case study in the Sundarbans mangroves”. The Sundarbans is the largest mangrove forest on earth, which is located in the Ganges delta in India and Bangladesh. The part of the Sundarbans far from the ocean is covered by seasonally flooded freshwater swamp forests. The Sundarbans cover an area of 10,000 km², of which 6,000 km² are in Bangladesh.

The Head of the Laboratory of Physiology in the NSCMB FEB RAS Igor I. Puschin presented the report “Past and present-day IMB-NSCMB studies in physiology of vision”.

Mr. Arkaprava Mandal started the second session with the report “Mapping the ecosystem health of the mangrove ecosystem from the northeast coastal Bay of Bengal: applicability of benthic foraminifera coenosis”. N.V. Miroshnikova told about Primorsky Aquarium: “Primorsky Aquarium: Scientific Research and Environmental Education”

During this meeting, Dr. Amit Kumar from SIST presented the report “Impact of ocean acidification on seaweed physiology and possible implications on coastal food chain”. Mrs. Nirupama Saini informed to participants about “Interaction between microbes and microplastics in northeast coastal Bay of Bengal: attachment to degradation”. Mr. Yash from the Centre for Excellence in Blue Economy, IISER-Kolkata ended the second session with his report “Implication of mangrove leaf litter in the aquaculture ponds of Sundarbans- towards sustainable ecological aspects of blue economy”.

The bilateral India-Russia online conference was held on a friendly, positive note, during which participants from both sides agreed to hold soon a more detailed online conference to strengthen future cooperation.

In conclusion, Prof. Punyasloke Bhadury from IISER-Kolkata invited Russian colleagues to visit the conference, which will take place in autumn 2024, in Kolkata, India.

The Indian-Russian online-meeting was conducted within Memorandum of Understanding, which was signed in the beginning of December 2021.

Webmaster
Gennady V. Dolgov (mailto:gdolgov@imb.dvo.ru)

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University of Nebraska Medical Center

POSTDOCTORAL EDUCATION

This Certificate is awarded to

Madan Kumar Arumugam, Ph.D.

For Completion in Postdoctoral Training

In the Department of Internal Medicine

Under the Supervision of Kusum Kharbanda, Ph.D.

from June 17, 2019 to June 16, 2023

Iqbal Ahmad, Ph.D.
Director of Postdoctoral Education
Associate Dean, Academic Affairs

UNMC

Memorandum of Understanding
Among

[1]Sathyabama Institute of Science and Technology (Deemed to be University), Chennai, Tamil Nadu, India

[2]Vaxigen International Research Center, Coimbatore, Tamil Nadu, India

[3]AAARNA Therapeutics, Bangalore, Karnataka, India

The scope of this agreement

This Memorandum of Understanding (MoU) is entered on April 12th 2024, by and among Sathyabama Institute of Science and Technology (Deemed to be University) (hereafter referred to as SIST, Address: Rajiv Gandhi Salai, Chennai, Tamil Nadu – 600 119, India) established under section (3) of the UGC Act, 1956 (A Christian Minority Institution) and Vaxigen International Research Center Private Limited (hereafter referred to as VIRC) with its Registered Office at No 32, C.S.Nagar Extension Second Cross road, Vadavalli, Coimbatore, Tamil Nadu - 641041 holding CIN: U73100TZ2021PTC036150 and AAARNA Therapeutics Private Limited with an address of C-CAMP, UAS-GKVK Campus, Bellary Road, Bangalore - 560 065, holding CIN: U24230MH2021PTC368585; aim to establish and develop a strategic collaborative relationship in order to develop a vaccine for Chikungunya virus.

FILE NO. TAR/2022/000258

SCIENCE & ENGINEERING RESEARCH BOARD(SERB)

(A statutory body of the Department of Science & Technology, government of India)

Science and Engineering Research Board
3rd & 4th Floor, Block II
Technology Bhavan, New Mehrauli Road
New Delhi - 110016

Dated: 27-Jan-2023

ORDER

Subject: Financial Sanction under Teachers Associateship for Research Excellence (TARE) to **Dr. Gopika G, Sathyabama Institute Of Science And Technology , Jeppiaar Nagar, Rajiv Gandhi Salai, Chennai, Chennai, Tamil Nadu-600119**- under the mentorship of **Dr. Sudakar Chandran,** at **Indian Institute of Technology Madras I.I.T. Post Office Chennai - 600036**- Release of 1st grant.

Sanction of **Science and Engineering Research Board (SERB)** is hereby accorded to the above mentioned grant at a total cost of **Rs. 18,30,000/- (Rs.** Rupees Eighteen Lakh Thirty Thousand only **Only)** for a duration of 36 months.
The date of start of the project will be 12 October, 2022 .The items of expenditure for which the total allocation of **Rs. 18,30,000/-** has been approved are given below:
The following budget is proposed for
Sathyabama Institute Of Science **And Technology , Jeppiaar Nagar, Rajiv Gandhi Salai, Chennai, Chennai, Tamil Nadu-600119 (Parent)**

Sl. No.	Budget Head	Amount
1.	Fellowship	Rs. 0 (@0/- per month (consolidated))
2.	Research Grant	Rs. 2,50,000/- per annum
3.	Overheads	Rs. 25,000/- per annum

Indian Institute of Technology Madras I.I.T. Post Office Chennai - 600036 (Host)

Sl. No.	Budget Head	Amount
1.	Fellowship	Rs. 60,000 (on completion of 90 days mandatory attendance in the host institute every year)
2.	Research Grant	Rs. 2,50,000/- per annum
3.	Overheads	Rs. 25,000/- per annum

2. Sanction of the **SERB** is also accorded to the payment of **Rs. 2,75,000/-** (Rupees Two Lakh Seventy Five Thousand only) to **Sathyabama Institute Of Science And Technology , Jeppiaar Nagar, Rajiv Gandhi Salai, Chennai , Rs. 3,35,000/-** (Rupees Three Lakh Thirty Five Thousand only) to **Indian Institute of Technology Madras I.I.T. Post Office Chennai - 600036** being the first installment of the grant for the year 2022-2023 for implementation of the said research project.

3. The expenditure involved is debitable to

Fund for Science & Engineering Research (FSER)

This release is being made under Teachers Associateship For Research Excellence (TARE). (Condensed Matter Physics and Materials Science)

4. The Sanction has been issued to with the approval of the competent authority vide Diary No. **SERB/F/8316/2022-2023** dated **16 December, 2022**

5. Sanction of the grant is subject to the conditions as detailed in Terms & Conditions available at website (www.serb.gov.in).

6. Overhead expenses are meant for the host Institute towards the cost for providing infrastructural facilities and general administrative support etc. including benefits to the staff employed in the project.

7. As per rule 211 of GFR, the accounts of project shall be open to inspection by sanctioning authority/audit whenever the institute is called upon to do so.

8. The release amount of **Rs. 2,75,000/-** (Rupees Two Lakh Seventy Five Thousand only) will be drawn by the Under Secretary of the SERB and will be disbursed by means of RTGS transaction as per their Bank details given below:

Sathyabama Institute of Science and Technology , Jeppiaar nagar, rajiv gandhi salai, chennai, Chennai, Tamil nadu-600119 (Parent) :

PFMS Unique Code	**SU**
Account Name	**Sathyabama Institute of Science and Technology - RESEARCH**
Account Number	**6089858032**
Bank Name & Branch	**Indian Bank Sathyabama Institute of Science and Technology Indian Bank Sathyabama Institute of Science and Technology Branch Jeppiaar Nagar Rajiv Gandhi Salai Chennai - 600119**
IFSC/RTGS Code	**IDIB000S201**
Email address of PI	**gopikag1987@gmail.com**
Email id of A/C Holder	**vc@sathyabama.ac.in**
Email address of concerned officer	**ms_ps@serbonline.in**

The release amount of **Rs. 3,35,000/-** (Rupees Three Lakh Thirty Five Thousand only) will be drawn by the Under Secretary of the SERB and will be disbursed by means of RTGS transaction as per their Bank details given below:

Indian Institute of Technology Madras I.I.T. Post Office Chennai - 600036 (Host) :

PFMS Unique Code	**IITM**
Account Name	**The Registrar, Indian Institute of Technology - Madras**
Account Number	**2722101016150**
Bank Name & Branch	**Canara Bank IIT Madras Branch Indian Institute of Technology IIT Campus IIT Chennai - 600036**
IFSC/RTGS Code	**CNRB0002722**
Email address of PI	**gopikag1987@gmail.com**
Email id of A/C Holder	**registrar@iitm.ac.in**
Email id of Mentor	**Dr. Sudakar Chandran**

9.Both the institutes will furnish Utilization certificate(UCs) financial year wise to the SERB and an audited statement of accounts pertaining to the grant immediately after the end of each financial year.

10. The institute will maintain separate audited accounts for the fellowship. A part or whole of the grant must be kept in an interest earning bank account which is to be reported to SERB. The interest thus earned will be treated as credit to the institute to be adjusted towards further installment of the grant.

11. The File no. **TAR/2022/000258** may also be mentioned in all research communications arising from the above project with due acknowledgement of **SERB.**

12. As this is the first grant for the fellowship, no previous U/C is required.

13. The institute may refund any unspent balance to SERB by means of a Demand Draft favoring "**FUND FOR SCIENCE AND ENGINEERING RESEARCH**" payable at New Delhi.

14. The organization/institute/university should ensure that the technical support/financial assistance provided to them by the Science & Engineering Research Board, a statutory body of the Department of Science & Technology (DST), Government of India should invariably be highlighted/ acknowledged in their media releases as well as in bold letters in the opening paragraphs of their Annual Report.

15. In addition, the investigator/host institute must also acknowledge the support provided to them in all publications, patents and any other output emanating out of the project/program funded by the Science & Engineering Research Board, a statutory body of Department of Science & Technology (DST), Government of India.

12/10/41

(Dr. Shilpi Paul)
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To,
Under Secretary
SERB, New Delhi

Copy forwarded for information and necessary action to: -

1.	The Principal Director of Audit, A.G.C.R.Building, IIIrd Floor I.P. Estate, Delhi-110002
2.	Sanction Folder, SERB , New Delhi.
3.	File Copy
4.	**(i) Dr. Gopika G** **Center for Nanoscience and Nanotechnology** **Sathyabama Institute of Science and Technology , Jeppiaar nagar, rajiv gandhi salai, chennai, Chennai, Tamil nadu-600119** **Email: gopikag1987@gmail.com** **Mobile: 919645037589** **(ii) Dr. Sudakar Chandran** **Indian Institute of Technology Madras I.I.T. Post Office Chennai - 600036** (Start date of the project may be intimated by name to the undersigned. For guidance, terms & Conditions etc. Please visit www.serb.gov.in.)
5.	**(i) Vice Chancellor,** **Sathyabama Institute Of Science And Technology , Jeppiaar Nagar, Rajiv Gandhi Salai, Chennai** **(ii)The Director** **Indian Institute of Technology Madras I.I.T. Post Office Chennai - 600036** (Receipt of Grant may be intimated by name to the undersigned)

12/10/41

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MEDICINE AND PUBLIC HEALTH - RESEARCH PAPER

Bioactive compound from marine seagrass *Streptomyces argenteolus* TMA13: combatting fish pathogens with time-kill kinetics and live-dead cell imaging

Lokesh Elumalai[1] · Siddharthan Nagarajan[1] · Sivarajan Anbalmani[1] · Sangeetha Murthy[1] · Radhakrishnan Manikkam[2] · Balagurunathan Ramasamy[1]

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Abstract

Actinobacteria, pervasive in aquatic and terrestrial environments, exhibit a filamentous morphology, possess DNA with a specific G + C content and production of numerous secondary metabolites. This study, focused on actinobacteria isolated from marine seagrass, investigating their antibacterial activity against fish pathogens. Among 28 isolates, *Streptomyces argenteolus* TMA13 displayed the maximum zone of inhibition against fish pathogens—*Aeromonas hydrophila* (10 mm), *Aeromonas caviae* (22 mm), *Edwardsiella tarda* (17 mm), *Vibrio harveyi* (22 mm) and *Vibrio anguillarum* (12 mm) using the agar plug method. Optimization of this potent strain involved with various factors, including pH, temperature, carbon source and salt condition to enhance both yield production and antibacterial efficacy. In anti-biofilm assay shows the maximum percentage of inhibition while increasing concentration of TMA13 extract. Minimal Inhibitory Concentration (MIC) and Minimal Bactericidal Concentration (MBC) assays with TMA13 crude extract demonstrated potent activity against fish pathogens at remarkably low concentrations. Time-kill kinetics assay showcased growth curve variations over different time intervals for all fish pathogens treated with a 100 µg/ml concentration of crude extract, indicating a decline in cells viability and progression into the death phase. Additionally, fluorescence microscopic visualization of bacterial cells exposed to the extracts emitting green and red fluorescence, enabling live-dead cell differentiation was also studied. Further characterization of the crude extract through GC–MS and FT-IR analyses performed and identified secondary metabolites with functional groups exhibiting significant antibacterial activity. This study elucidates the capacity of *Streptomyces argenteolus* TMA13 to enhance the production of antibiotic compounds effective against fish pathogens.

Keywords Actinobacteria · Fish pathogens · Anti-biofilm · Time-kill kinetics · Live-dead cell imaging

Introduction

The food industry has witnessed significant growth in aquaculture, resulting in a global production surpassing 61 million tons in 2020. The United Nations Food and Agricultural Organization (FAO) predicts a 70% surge in the demand for food and feed by 2050, propelled by the expanding global population [1, 2]. Fish, providing at least 20% of animal protein for over 4.5 billion people, plays a crucial role in promoting the well-being of individuals worldwide. This increase is attributed to the growth of the human population, which is being supplied with essential nutrients and fish products, particularly in Asia Pacific region, which is expected to escalate by 30% by 2023 [3, 4]. Serious disease outbreaks in aquaculture pose significant concerns for economic losses and the spread pathogenic microorganism, often leading to catastrophic incidents. In countries like India, Vietnam and China, its estimated that fish disease account for a 30% reduction in production due to factors such as high population density, stressful conditions and environmental temperature fluctuations resulting from this outbreak [5–7]. Common bacterial infections such as vibriosis,

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Brazilian Journal of Microbiology
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ENVIRONMENT AND BIODIVERSITY - SHORT COMMUNICATION

Existence of rare actinobacterial forms in the Indian sector of Southern Ocean: 16 S rRNA based metabarcoding study

Radhakrishnan Manikkam[1] · Manigundan Kaari[1,2] · Abirami Baskaran[1,3] · Meganathan P. Ramakodi[4] · Gopikrishnan Venugopal[1] · Parli Venkateswaran Bhaskar[5]

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© The Author(s) under exclusive licence to Sociedade Brasileira de Microbiologia 2024

Abstract

The significance of the Southern Ocean (SO) as a sink of atmospheric CO_2 and other greenhouse gases is well established. Earlier studies have highlighted the role of microbes in various SO ecosystem processes. However, the diversity and role of actinobacteria in the Indian sector of SO (ISO) water and sediments are unknown. This study aimed to analyze the diversity of actinobacteria in water and sediment samples of SO based on amplicon microbiome analyses. The taxonomic analysis identified a total number of 27 phyla of which Proteobacteria (40.2%), Actinobacteria (13.6%), and Firmicutes (8.7%) were found to be dominant. The comparative study of water and sediment samples revealed the dominance of different actinobacteria in water and sediments. While the order Streptomycetales was dominant in the water samples, Micrococcales was found to be dominant in the sediment samples. The genus level analysis found the presence of eight and seventeen genera in the sediment and water samples, respectively. The genus *Streptomyces*, *Saccharopolyspora*, *Nocardioides*, Sva0996 marine group, and *Mycobacterium* were seen both in sediment and water samples. *Marmoricola*, *Ilumatobacter*, and *Glaciihabitans* were observed only in sediment samples whereas *Rhodococcus*, *Corynebacterium*, *Micrococcus*, *Turicella*, *Pseudonocardia*, *Bifidobacterium*, *Nesterenkonia*, *Collinsella*, *Knoellia*, *Cadidatus, Actinomarina*, *Libanicoccus* and *Cutibacterium* were noticed exclusively in water samples. Our study also emphasizes the need for further detailed study to understand the links between actinobacterial diversity and their ecological functions in the ISO. The available metabarcoding data paves the way for future research in cultivable forms of novel and rare Actinobacteria for their bioprospecting applications.

Keywords Southern Ocean · Actinobacteria specific primer · Amplicon sequencing · Diversity

Radhakrishnan Manikkam and Manigundan Kaari contributed equally to this work.

Responsible Editor: Luiz Henrique Rosa.

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Brazilian Journal of Microbiology
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ENVIRONMENT AND BIODIVERSITY - SHORT COMMUNICATION

Existence of rare actinobacterial forms in the Indian sector of Southern Ocean: 16 S rRNA based metabarcoding study

Radhakrishnan Manikkam[1] · Manigundan Kaari[1,2] · Abirami Baskaran[1,3] · Meganathan P. Ramakodi[4] · Gopikrishnan Venugopal[1] · Parli Venkateswaran Bhaskar[5]

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Abstract

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Keywords Southern Ocean · Actinobacteria specific primer · Amplicon sequencing · Diversity

Radhakrishnan Manikkam and Manigundan Kaari contributed equally to this work.

Responsible Editor: Luiz Henrique Rosa.

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Published online: 11 July 2024

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HIMALAYAN ECOLOGY
2023
North Board
MR, 10/4/24.

DISTRIBUTION AND ANTI-INFECTIVE PROPERTIES OF CULTURABLE ACTINOBACTERIA FROM THE INDIAN HIMALAYAN REGION (IHR)

Thenmozhli Geetha Saravanan[1], Sharmila Murugesan[2], Radhakrishnan Manikkam[1*], Kishore Kumar Annamalai[1], Manigundan Kaari[1] and Anita Pandey[3]

[1]Centre for Drug Discovery and Development, Sathyabama Institute of Science and Technology, Chennai, Tamil Nadu, India

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ABSTRACT

The aim of this study is investigating the distribution of culturable actinobacteria in the selected Indian Himalayan region (IHR) and its evaluation for anti-infective properties. The anti-infective potential activity of HS2C1 which was isolated from three different altitude of Himalayan region was confirmed by agar plug method. Based on the results, the strain HS2C1 showed broad spectrum of activity except against Candida sp. Active metabolite from Streptomyces sp. HS2C1 exhibited 77% inhibition at 25 ug/mL concentration against Escherichia coli and 56% against Acinetobacter baumanniiwith low IC50 values. Also, it exhibited anti-biofilm property against carbapenem resistant E. coli for about 84% of biofilm inhibition at 200 ug/mL concentration. Based on their phenotypic and molecular traits, taxonomic position of the potential strain HS2C1 was confirmed as Streptomyces rochei HS2C1. To conclude, S. rochei HS2C1 isolated from KMVN base camp of Himalayan region is a promising source for anti-infective molecules with anti-bacterial and anti-biofilm properties.

KEYWORDS: Anti-bacterial activity, Anti-biofilm activity, Carbapenem resistance, Darma valley, Himalayan region, Streptomyces rochei

INTRODUCTION

Opportunistic infections by the pathogens of Enterobacteriaceae family can easily infect both healthy and compromised hosts, causing Urinary Tract Infection (UTI), wound infections, pneumonia, gastroenteritis, and meningitis, and contributing to mortality and morbidity worldwide (D'Agostino and Cook, 2016). The family Enterobacteriaceae are gram-negative facultative anaerobic bacteria and are members of the ESKAPE pathogenswhich includes Escherichia coli, Klebsiella pneumoniae, Pseudomonas aeruginosa, and Acinetobacter baumanniithat are life-threat to human beings (Mancuso *et al.*, 2021). Bacterial infections are treated with conventional antibiotics. However, the emergence of carbapenem-resistant infections, poses a potential threat to the patient's life as the majority of the current antibiotics fail to work on those multidrug resistance microorganisms (MDR) as a result of the overuse of antibiotics (Murray *et al.*, 2022). Exopolysaccharide (EPS) production and the formation of biofilm by A. baumannii, P. aeruginosa, K. pneumoniae, and E. coli worsen this situation. According to Sankhwaret al. (2023) and Zhou *et al.*, (2015), a biofilm is a group of microorganisms that is encased in an extracellular polymeric matrix. EPS has a complex structure made up of multiple layers of cells and extracellular material, which can easily hinder the penetration of antimicrobial substance to access the biofilm's cells. They can therefore be resistant to antibiotic treatment and are a leading global cause of persistent and recurrent infections brought on by clinically important pathogens. (Qian *et al.*, 2021). The development of new antibacterial drugs is urgently required to combat the biofilm organisms due to the severity of biofilm infections and the lack of effective antibiotics against biofilm associated infections. According to Sankhwar *et al.*, (2023) and Maiti *et al.*, (2020), microorganisms that produce natural bioactive compounds thrive in Himalayan soil, which has less or negligible anthropogenic activity. The genus Actinomycetes contain the majority of the antimicrobial compounds that have been studied so far. Actinobacteria are characterized primarily by their production of secondary metabolites, which is influenced by diverse environmental conditions. Actinomadura, Actinoplanes,

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Minutes of the Meeting

Date of the meeting: 29.11.2023 **Time of the meeting: 11.30 am to 12.30 pm**

Agenda: To discuss about a collaborative work between Centre for Drug Discovery and Development, Sathyabama Institute of Science and technology (CDDD-SIST), Chennai and School of Biotechnology, Madurai Kamaraj University, Madurai and National Centre for Nanosciences and Nanotechnology, University of Madras, Chennai.

The meeting was held in person on 29th November 2023 from 11.30 am to 12.30 pm at Seminar Hall, Centre for Drug Discovery and Development, Sathyabama Institute of Science and Technology. The following members attended the meeting

Dr. M. Radhakrishnan Professor, CDDD-Sathyabama.,
Dr. Krupakar Parthasarathy Associate Professor, CDDD- Sathyabama.,
Dr. Sam Ebenezer R, Assistant Professor, CDDD, Sathyabama.,
Dr. S. Vignesh, Research Associate, CDDD, Sathyabama
Dr.Amutha Santhanam, Professor, National Centre for Nanosciences and Nanotechnology, University of Madras.
Dr.S.B.Anand, Assistant Professor, SBT, Madurai Kamaraj University.

The following points were discussed during the meeting

- Dr. Radhakrishnan welcomed the gathering and Dr. Krupakar Parthasarathy elaborated on the facilities and research expertise available at CDDD, Sathyabama.
- Dr. S.B. Anand (MKU) explained about his research expertise in the field of filariasis. He is currently working on acute lymph edema associated bacterial infection, and inflammation. He is also working on nanogel based bandages for wound healing and development of larvicidal compounds. He is looking for research collaboration with Sathyabama for his Toxicity studies in cell lines and testing Lymphagenetic markers using RT-PCR and FACS. The consumables like RT-Primers, and cell lines related to the studies will be provided by Dr.S.B.Anand and laboratory studies will be carried out by CDDD, Sathyabama
- Prof. Amutha Santhanam (UoM), explained her research expertise in the field of nanotherapeutics, scaffolds and tissue engineering. She is looking for research collaboration with Sathyabama to carry out toxicity studies in cell-line.

भारतीय आयुर्विज्ञान अनुसंधान परिषद
स्वास्थ्य अनुसंधान विभाग, स्वास्थ्य एवं परिवार
कल्याण मंत्रालय, भारत सरकार

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Department of Health Research, Ministry of Health
and Family Welfare, Government of India

F. No. 5/8/5/6/ITRC/Diag/2022/ECD-1 **Dated**: - 21.09.2023

E-OfficeNo. 132692

To
The Director,
ICMR-National Institute for Research in Tuberculosis,
Chennai – 600018

Subject: -Sanction and budget allotment for the 1st installment of 1st year the project Entitled, **"Multicentric validation of phage lysin in comparison with MGIT PANTA to control normal flora in processed sputum specimens for rapid detection of Mycobacterium tuberculosis using BACTEC MGIT 960 system"** under Dr. Balaji Subramanyam, National Institute for Research in Tuberculosis, Chennai-600018.

Sir,

1. The Director General of the Council sanctioned for the One year of the project of the above-mentioned research scheme from 15.10.2023 to 14.10.2024.
2. The Director General of the Council also sanctioned the budget allotment of **Grand Total Rs. 31,03,440/- (Rupees Thirty-One Lakhs Three Thousand Four Hundred Forty Only)** as detailed in the attached statement for one year i.e., 2023-24

1st Installment of 1st Year Rs.27,93,096/-
10% Hold Rs.3,10,344/-

Grand Total Rs.31,03,440/-

3. The grant will be released to the head of the Institution either in one Installment as first and final or in two installments during the financial year on receipt of the demand in the prescribed form (Appendix-

4. While asking for the release of the installment it may be ensured that the amount for the pay and allowances of the staff who are actually in position is included. The unspent balance available as on out of the funds paid during the year 2023-24 should be intimated along with the unspent balance at the end of the project. This unspent balance at the end of the project will be adjusted against the current year's grant 2023-24 if any.

5. A separate account for the grant received and expenditure incurred shall be maintained. The account will be subjected to audit by the authorized auditors of the Institutions. In case, facilities are not available for such auditing, the account will be audited by the Council's own internal auditors. Latest by

Acta Biomaterialia 167 (2023) 54–68

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Acta Biomaterialia

journal homepage: www.elsevier.com/locate/actbio

Review article

Multi-functional bioactive silver- and copper-doped diamond-like carbon coatings for medical implants

Martin Birkett[a,*], Abdul Wasy Zia[b], Dinesh Kumar Devarajan[c], Soni[d], Mihalis I. Panayiotidis[e], Thomas J. Joyce[f], Murtaza M. Tambuwala[g], Ángel Serrano-Aroca[h]

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Medical implants

ABSTRACT

Diamond-like carbon (DLC) coatings doped with bioactive elements of silver (Ag) and copper (Cu) have been receiving increasing attention in the last decade, particularly in the last 5 years, due to their potential to offer a combination of enhanced antimicrobial and mechanical performance. These multi-functional bioactive DLC coatings offer great potential to impart the next generation of load-bearing medical implants with improved wear resistance and strong potency against microbial infections. This review begins with an overview of the status and issues with current total joint implant materials and the state-of-the art in DLC coatings and their application to medical implants. A detailed discussion of recent advances in wear resistant bioactive DLC coatings is then presented with a focus on doping the DLC matrix with controlled quantities of Ag and Cu elements. It is shown that both Ag and Cu doping can impart strong antimicrobial potency against a range of Gram-positive and Gram-negative bacteria, but this is always accompanied so far by a reduction in mechanical performance of the DLC coating matrix. The article concludes with discussion of potential synthesis methods to accurately control bioactive element doping without jeopardising mechanical properties and gives an outlook to the potential long-term impact of developing a superior multifunctional bioactive DLC coating on implant device performance and patient health and wellbeing.

Statement of significance

Multi-functional diamond-like carbon (DLC) coatings doped with bioactive elements of silver (Ag) and copper (Cu) offer great potential to impart the next generation of load-bearing medical implants with improved wear resistance and strong potency against microbial infections. This article provides a critical review of the state-of-the-art in Ag and Cu doped DLC coatings, beginning with an overview of the current applications of DLC coatings in implant technology followed by a detailed discussion of Ag/Cu doped DLC coatings with particular focus on the relationship between their mechanical and antimicrobial performance. Finally, it ends with a discussion on the potential long-term impact of developing a truly multifunctional ultra-hard wearing bioactive DLC coating to extend the lifetime of total joint implants.

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International Journal of Biological Macromolecules
Volume 277, Part 1, October 2024, 133684

Bacterial valorization of agricultural-waste into a nano-sized cellulosic matrix for mitigating emerging pharmaceutical pollutants: An eco-benign approach

Bendangtula Walling [a], Pranjal Bharali [a] ✉, D. Ramachandran [b], Viswanathan Kanagasabai [b], Nipu Dutta [c], Swapnali Hazarika [d], Gobichettipalayam Balasubramaniam Maadurshni [e], Jeganathan Manivannan [e], Sony Kumari [f], Shiva Aley Acharjee [a], Bhagyudoy Gogoi [a], Alemtoshi [a], Viphrezolie Sorhie [a], Vinita Vishwakarma [g]

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What do these dates mean?
Check for updates

Sustainable Chemistry and Pharmacy
Volume 39, June 2024, 101507

Polyhydroxybutyrate (PHB)-Based sustainable bioplastic derived from *Bacillus* sp. KE4 isolated from kitchen waste effluent

Shiva Aley Acharjee [a], Pranjal Bharali [a] ✉, D. Ramachandran [b], Viswanathan Kanagasabai [b], Monti Gogoi [c], Swapnali Hazarika [c], Pranab Jyoti Koch [d], Nipu Dutta [e], Gobichettipalayam Balasubramaniam Maadurshni [f], Jeganathan Manivannan [f], Sony Kumari [d], Bendangtula Walling [a], Bhagyudoy Gogoi [a], Alemtoshi [a], Viphrezolie Sorhie [a], Vinita Vishawkarma [g]

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What do these dates mean?
Handling Editor: Fabio Aricò
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Show less

Production of bacterial nanocellulose as green adsorbent matrix using distillery wastes for dye removal: a combined approach for waste management and pollution mitigation

Original Article | Published: 02 April 2024
(2024) Cite this article

Bendangtula Walling, Alimpia Borah, Swapnali Hazarika, Pranjal Bharali ✉, D. Ramachandran, Viswanathan Kanagasabai, Nipu Dutta, Gobichettipalayam Balasubramaniam Maadurshni, Jeganathan Manivannan, Pronab Mudoi, Pranjal Kumar Kaman, Viphrezolie Sorhie, Bhagyudoy Gogoi, Alemtoshi, Shiva Aley Acharjee, Vinita Vishwakarma & Palash Deb Nath

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Abstract

The possibility of using stillage of rice beer as a source of carbon for the manufacture of bacterial nanocellulose (BNC) was investigated in this work. 16.434 g L^{-1} of BNC was produced by *Komagataeibacter saccharivorans* NUWB1 using the rice beer stillage along with the other media components of Hestrin-Schramm (HS) medium. Findings showed that obtained BNC possessed dense nano-fibrous network with a signature of cellulose I type, crystallinity index of 86.23%, and higher thermostability up to 380 °C could withstand tensile loads of 68.044 MPa, and exhibited a water holding capacity of 97.53 g g^{-1}. N_2 adsorption-desorption isotherm of the BNC was found to be of type IV, suggesting mesoporous type structure with a total pore volume and surface area of 3.294e-03cc g^{-1} and 21.065 m^2 g^{-1}. The effectiveness of the BNC in adsorbing the cationic methylene blue dye was investigated. The BNC showed remarkable adsorption capacity against the dye, and resultant data from adsorption studies fit well for the Langmuir isotherm (R^2=0.99) and pseudo-second-order model. According to thermodynamic studies, the adsorption was

International Journal of Biological Macromolecules
Volume 251, 1 November 2023, 126309

In-situ biofabrication of bacterial nanocellulose (BNC)/graphene oxide (GO) nano-biocomposite and study of its cationic dyes adsorption properties

Bendangtula Walling [a], Pranjal Bharali [a] ✉, D. Ramachandran [b], K. Viswanathan [b], Swapnali Hazarika [c], Nipu Dutta [d], Pronab Mudoi [e], Jeganathan Manivannan [f], S. Manjunath Kamath [b], Sony Kumari [g], Vinita Vishwakarma [h], Viphrezolie Sorhie [a], Bhagyudoy Gogoi [a], Shiva Aley Acharjee [a], Alemtoshi [a]

[a] Applied Environmental Microbial Biotechnology Laboratory, Department of Environmental Science, Nagaland University, Lumami, Zunheboto 798627, Nagaland, India
[b] Centre for Nanoscience & Nanotechnology, Sathyabama Institute of Science and Technology, Jeppiaar Nagar, Rajiv Gandhi Road, Chennai 600119, Tamil Nadu, India
[c] Chemical Engineering Group, CSIR-North East Institute of Science & Technology, Jorhat 785006, Assam, India
[d] Department of Chemical Science, Tezpur University, Napaam, Tezpur 784028, Assam, India
[e] Department of Molecular Biology & Biotechnology, Tezpur University, Napaam, Tezpur 784028, Assam, India
[f] Environmental Health & Toxicology Laboratory, Department of Environmental Science, Bharathiar University, Tamil Nadu, India
[g] Department of Applied Biology, University of Science and Technology, Meghalaya, Ri Bhoi, Baridua 793101, India
[h] Centre for Nanoscience and Nanotechnology, Galgotias University, Greater Noida, NCR Delhi, India

Received 28 June 2023, Revised 29 July 2023, Accepted 10 August 2023, Available online 12 August 2023, Version of Record 25 August 2023.
What do these dates mean?
Check for updates

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தமிழ்நாடு तमिलनाडु TAMILNADU

CX 271386

14 JUL 2023

K. SANKAR
STAMP VENDOR
LICENCE No: 1481/94,
No. 2, MADLEY ROAD,
T. NAGAR, CHENNAI-17

Memorandum of Understanding between

Sathyabama Innovation Council

And

Double Loop Advisory Private Limited

Tuesday, August 01, 2023

In pursue to strengthen business relations and develop reciprocal cooperation, Sathyabama Innovation Council (SIC) and Double Loop Advisory Private Limited, concluded the following Memorandum of Understanding.

Centre for Innovation and Technology Transfer is a Sathyabama Innovation Council, hereinafter referred to as Party 1, formed as a nonprofit section 8 company by Sathyabama Institute of Science and Technology for fostering entrepreneurship and nurturing deep tech start-ups.

M/s Double Loop Advisory Private Limited(hereinafter referred to as DLAP) with CIN:U74999TG2021PTC153974 and its registered office in 1-88/2, 4th Floor, Gem Square Building Above HDFC Bank, Madhapur Hyderabad Hyderabad Telangana 500081 is hereinafter referred to as Party 2 represented by Manoj Ponnada, Director, DIN 07537558.

The purpose of this MOU between two parties is to establish a practical framework for the development of enhancing the Startup and innovation ecosystem of Party 1, and to set forth the procedures of cooperation, which can enhance the implementation of reciprocal economic objectives.

Article One

The parties may encourage the exchange of mentoring camps, accelerator program, expert sessions, startup initiatives, delegations and shall support the following up of such visits.

Article Two

The parties shall coordinate to establish and expand a vibrant eco system to build start up and innovation network to facilitate the circulation of business opportunities available with new enterprises and startups incubated with Sathyabama Innovation Council.

Article Three

The parties endeavor to exchange economic and market information, statistic and business data pertaining to the startups and innovators wherever possible with a view to facilitate business leads and activate joint projects. The parties shall also encourage joint research activities whenever possible and required.

Article Four

The parties support and encourage the exchange of technical expertise, knowledge transfer exercises know how and up skilling opportunities between their respective members.

Article Five

As agreed, Sathyabama Innovation council will bear the costs and expenses for its participation in activities under this MOU to build a sustainable eco system for entrepreneurship. The capacity of each party to carry out activities under this MOU shall be subject to the availability of funds, personnel and other resources.

Article Six

For the purpose of implementing this MOU, the parties shall jointly review the provisions from time to time taking into consideration any matters that may necessitate introducing new articles or amending existing ones. This MOU may be amended at any time subject to the express agreement in writing of both parties.

Article Seven

This Memorandum of Understanding shall come into effect upon signature by the parties and shall remain in effect until both, or either party request its termination by a letter addressed to the other. The MOU may be terminated at any time after consultation and express agreement of both parties with one month notice.

Terms of Reference

Nothing in or relating to this agreement shall be deemed a waiver, express or implied, of any of the privileges and immunities of the parties hereto.

SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY

DOUBLE LOOP ADVISORY PVT. LTD. HYDERABAD

For New Cohort of Startups at Sathyabama Innovation Council:

1. Announcement of the new cohort and programme specific to the sectors, Deep Technologies, Life Sciences and Environmental Technologies
2. Announcement of new applications for new cohorts of Sathyabama Innovation Council
3. Acceleration programme launch and execution
4. On boarding of 3 strategic partners across tech, funding, go to market, research , trade bodies for the acceleration programme
5. All startups will under- go a VC match making process to raise funds either with grants, technology transfer, schemes or equity

Schedule 2

As per the proposal below are the milestones that will be achieved under the proposal in the following 3 months of the programme from November 1st, 2023 to January 31st, 2024.

1. Execution of the programme specific to the sectors, Deep Technologies, Life Sciences and Environmental Technologies
2. Strategic Mentoring
3. Customized Networking
4. Building Virtual Community for Peer networking and Learning.
5. All startups will under- go a VC match making process to raise funds and investment readiness
6. Demo Day

Payment Terms

The agreed payment amount for this 6 month programme to be executed by Double Loop Advisory Private Limited in INR 10,00,000 (Ten Lakhs only) + GST.

Amount	Scheduled Payout
INR 2,00,000+ GST	Upon sign off of the programme
INR 1,60,000+ GST(for 5 months)	30/31 of every month upon submission of Monthly report

All other payments not within the scope of the above deliverables will be borne on actuals by Sathyabama Innovation Council.

Both the parties will use emblem and official seal in any form or manner whatsoever, or any abbreviation, with the prior written authorization of the authorized signatories of this MOU.

SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY

DOUBLE LOOP ADVISORY PVT LTD. HYDERABAD

In WITNESS WHEREOF, the parties hereto have executed two counter parts of this agreement and each party shall retain one original copy.

For Sathyabama Innovation Council

31/7/23

Dr. T Sasipraba
Vice Chancellor

Witness:
Name: DANIEL PRABHAKARAN
Signature:
Title: Startup Manager. Sathyabama Innovation Council.

For Double Loop Advisory Private Limited

Mr Manoj Ponnada
Director

Witness:
Name: Solomon Porres
Signature:
Title: Head - Engagements.



தமிழ்நாடு தமிலனாடு TAMILNADU

CY 139621

T. PARVATHI
L.V.S. TM/10757/A/[illegible]
No.81, MULLA STREET,
CHENNAI-600 079.

Vel Tech
Technology Business Incubator (TBI)
17 NOV 2023

MEMORANDUM OF UNDERSTANDING (MoU)

BETWEEN

Vel Tech TBI,
Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Chennai
(Deemed University u/s 3 of UGC Act, 1956)
AND

Sathyabama Innovation Council,
Sathyabama Institute of Science and Technology, Chennai

This Memorandum of Understanding (hereinafter called the 'MoU') is entered into **on 14th day of December 2023** by and between.

Vel Tech TBI, Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Chennai, the First Party represented herein by its **Chief Executive Officer, Vel Tech, Dr. P. Chandrakumar** And **Sathyabama Innovation Council, Sathyabama Institute of Science and Technology, Chennai**. The second party and represented herein by its **Head of Incubator Mr. Daniel Prabhakaran. G of Sathyabama Innovation Council, Sathyabama Institute of Science and Technology, Chennai.**

VEL TECH TBI

SIC

A) First Party is an Institutional Incubator and Higher Educational Institution named: **Vel Tech TBI**,

B) First Party & Second Party believe that collaboration and cooperation between themselves will promote more effective use of each of their resources, and provide each of them with enhanced opportunities.

C) The Parties intend to cooperate and focus their efforts on cooperation within areas of Incubation, Startup support, Mentoring, Training, Visits, and Expert Lecture.

D) **Mr. Daniel Prabhakaran. G** , Head of Incubator - the Second Party is engaged in **Sathyabama Innovation Council, Sathyabama Institute of Science and Technology, Chennai.**

NOW, THEREFORE, IN CONSIDERATION OF THE MUTUAL PROMISES SET FORTH IN THIS MOU, THE PARTIES HERETO AGREE AS FOLLOWS:

CLAUSE 1: CO-OPERATION

1.1 Both Parties are united by common interests and objectives, and they shall establish cooperation.

1.2 First Party and Second Party cooperation will facilitate effective utilization of the intellectual capabilities.

1.3 The parties shall cooperate with each other and shall as promptly as is responsibly practical, relevant agreement.

CLAUSE 2: SCOPE OF THE MoU

2.1 **Incubation Services, Mentoring Support, Training & Visits, Facility utilizations**: Institution incubator interaction will provide an insight into the latest developments/requirements of the industries; the Second Party to permit the Startups of the First Party to visit its office. This will provide confidence & smooth transition.

2.2 **Guest Lectures**: Second Party to extend the necessary support to deliver guest lecturers to the startups of the First Party on the technology trends and in-house requirements.

2.3 There is **no financial commitment** on the part of **Vel Tech**, the first party to take up any program mentioned in MoU. If there is any financial consideration, it will be dealt with separately.

2.4 Both Parties to obtain all internal approvals, consents, permissions, and licenses of whatsoever nature required.

CLAUSE 3: VALIDITY

3.1 This Agreement will be valid until it is expressly terminated by either Party on mutually agreed terms, during which period, the Second Party.

CLAUSE 4: RELATIONSHIP BETWEEN THE PARTIES

4.1 It is expressly agreed that First Party and Second Party are acting under this MOU as independent contractors, and the relationship established under this MOU shall not be construed as a partnership.

IN WITNESS WHEREOF THE PARTIES HERETO HAVE SET THEIR HANDS ON THE DAY, MONTH AND SEAL FIRST MENTIONED ABOVE

First Party

Vel Tech TBI

VEL TECH TECHNOLOGY INCUBATOR * No.42, Avadi, Chennai - 62 * VEL TECH TBI

Witness1: [P. SATHYANATHAN]

Witness2:

Second Party

Sathyabama Innovation Council

Sathyabama Innovation Council SIC

Witness1:

Witness2:

SATHYABAMA
INNOVATION
COUNCIL
(A Section 8 Company Under Companies Act 2013)

cultiv8

MEMORANDUM OF UNDERSTANDING (MoU)

BETWEEN

Sathyabama Innovation Council,
Sathyabama Institute of Science and Technology, Chennai

AND

Cultiv8, CIET-TBI



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Sholinganallur, Chennai-600 119.

8 SEP 2023

Sathyabama Innovation Council

MORANDUM OF UNDERSTANDING (MoU)

This Memorandum of Understanding (hereinafter called the 'MoU) is entered into on 29th day of November 2023 by and between.

Sathyabama Innovation Council Registered as Section 8 Company under the companies act 2013, having its registered office at Jeppiaar Nagar, Rajiv Gandhi Salai, Chennai - 600 119, represented herein by, Mr. Daniel Prabhakaran G, Head of Incubator (hereinafter referred to as "First Party", company which expression, unless excluded by or repugnant to the subject or context shall include its successors – in- office, administrators and assigns).

And

Cultiv8, CIET-TBI, a Technology Business Incubator located at Coimbatore Institute of Engineering and Technology and sponsored by Department of Science and Technology, Government of India, registered under SECTION 10 OF TAMILNADU ACT,1975 and having its registered office at Coimbatore Institute of Engineering and Technology, Vellimalaipattinam, Thondamuthur Via, Narasipuram (PO), Coimbatore 641109 hereinafter referred to as "Second Party", company which expression, unless excluded by or repugnant to the subject or context shall include its successors – in-office, administrators and assigns).

Sathyabama Innovation Council SIC

K. Sakthivel Cultiv8
CIET - TBI
Vellimalaipattinam
Narasipuram (PO), Thondamuthur (VIA),
Coimbatore - 641 109.

WHEREAS

A) First Party is an Institutional Incubator in a Higher Educational Institution named Sathyabama Innovation Council supported by Sathyabama Institute of Science and Technology, Chennai.

B) Cultiv8, the Second Party is engaged in technology business incubation and promoting Technology Driven Startups.

C) First Party & Second Party believe that collaboration and cooperation between themselves will promote more effective use of each of their resources, and provide each of them with enhanced opportunities.

D) The Parties intend to cooperate and focus their efforts on cooperation within areas of Incubation, Startup support, Funding, Mentoring, and Training. Visits, and Expert Lectures.

NOW, THEREFORE, IN CONSIDERATION OF THE MUTUAL PROMISES SET FORTH IN THIS MOU, THE PARTIES HERETO AGREE AS FOLLOWS

CLAUSE 1: CO-OPERATION

1.1 Both Parties are united by common interests and objectives, and they shall establish cooperation.

1.2 First-Party and Second Party cooperation will facilitate effective utilization of the intellectual capabilities.

1.3 The parties shall cooperate with each other and shall as promptly as is responsibly practical, relevant agreement.

CLAUSE 2: SCOPE OF THE MOU

2.1 Co-Incubation Services, Funding Opportunity, Mentoring Support, and Training & Visits, Facility utilization: Institution incubator interaction will provide an insight into the latest developments/requirements of the industries. Both parties shall permit the Startups of the other Party to visit their office and seek interaction

2.2 Second party shall consider the startups of the first party in priority for availing its schemes and facilities which are declared open for startups from other incubators. the Second party as a designated TBI for startups, shall seek co-incubation of technology-driven startups from the first party to maximize the mentoring and other benefits to entrepreneurs.

Sathyabama Innovation Council SIC

K. Sakthi

cultiv8
CIET - TBI
Vellimalaipattinam
Narasipuram (PO), Thondamuthur (VIA),
Coimbatore - 641 109.

2.3 Both parties shall plan for joint conduct of road shows, boot camps, competitions, and any relevant activities for the promotion of entrepreneurship both in virtual and physical modes. Roles and Responsibilities shall be discussed in advance for each activity and work will be executed

2.4 There is no financial commitment on the part of both parties to take up any program mentioned in the MoU. If there is any financial consideration, it will be dealt with separately.

2.5 Both Parties to obtain all internal approvals, consents, permissions, and licenses of whatsoever nature required

CLAUSE 3: VALIDITY

3.1 This Agreement will remain in effect until it is expressly terminated by either party on mutually agreed terms.

CLAUSE 4: RELATIONSHIP BETWEEN THE PARTIES

4.1 It is expressly agreed that First Party and Second Party are acting under this MOU as independent contractors, and the relationship established under this MOU shall not be construed as a partnership.

IN WITNESS WHEREOF THE PARTIES HERETO HAVE SET THEIR HANDS ON THE DAY, MONTH, AND SEAL FIRST MENTIONED ABOVE

AGREED:

First Party	**Second Party**
For Sathyabama Innovation Council Head of Incubator Sathyabama Innovation Council Jeppiaar Nagar, Rajiv Gandhi Salai, Chennai - 600 119 E-mail: startup@sathyabama.ac.in	For Cultiv8 Incubation Manager, Cultiv8, CIET TBI, Vellimalaipattinam, Thondamuthur(via) Narasipuram (PO), Coimbatore - 641109 E-mail: srisakthi@thecultiv8.com
Witness 1: Witness 2:	Witness 1: Witness 2:

MEMORANDUM OF UNDERSTANDING (MOU)

BETWEEN

SATHYABAMA
INSTITUTE OF SCIENCE AND TECHNOLOGY
(DEEMED TO BE UNIVERSITY)
CATEGORY - 1 UNIVERSITY BY UGC

SATHYABAMA INNOVATION COUNCIL

SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY

Sathyabama College Road, Semmancheri, Chennai, Tamil Nadu 600119

And

Connect2Investors

Connect2Investors (C2I)

Dated: 09.01.2024

MEMORANDUM OF UNDERSTANDING

between

Connect2Investors (C2I)

and

Sathayabama Innovation Council

Connect2Investors(C2I)

The Connect2Investors/Connect4myCoach ("C2I")) foster startup entrepreneurship initiatives across the globe and are involved in various Startup initiatives, including Investor Connect (Funding), Mentor Connect (Mentoring), and Global Connect (Networking) support. Also, C2I supports Pitch Perfect, and Entrepreneurship education in PMF, GTM, Scaling & Growth through free webinar sessions. C2I partnered with many Technology Business Incubation (TBI)/Incubation centers and other professional entities in India. In addition, C2I Partnered with many Investors as Investor Partners in India, Singapore, USA, and other countries.

Sathayabama Innovation Council

Sathyabama Innovation Council Registered as Section 8 Company under the companies act 2013, having its registered office at Jeppiaar Nagar, Rajiv Gandhi Salai, Chennai - 600 119, represented herein by, Mr. Daniel Prabhakaran G, Head of Incubator (hereinafter referred to as "First Party", company which expression, unless excluded by or repugnant to the subject or context shall include its successors – in-office, administrators and assigns).

PREAMBLE

WHEREAS the Connect2Investors(C2I) and the Sathayabama Innovation Council (hereinafter jointly referred to as "the Parties" and individually as "the Party") are desirous of entering into a Memorandum of Understanding (MOU);

This MoU confirms the common desire of Sathayabama Innovation Council and C2I to maintain and further promote cooperation and understanding for the purpose of promoting the development of business relations between C2I and Sathayabama Innovation Council.

Hence both the parties have agreed to enter a Memorandum of Understanding (MOU).

NOW THEREFORE, the Parties hereto agree as follows: -

Sathyabama Innovation Council SIC

K S Ashok

ARTICLE 1

The main objectives of the MOU are as follows: -

1. Cooperation in Entrepreneurship initiatives between C2I and Sathayabama Innovation Council.
2. Identifying and matchmaking potential for promotion of business from either side.
3. Business matching between C2I and Sathayabama Innovation Council to promote joint ventures, commercial ties, investments, strategic alliances, and other aspects pertaining to the bringing of companies together.
4. Exchange of information such as print and electronic media, internet, website, periodical publications, directories, and other relevant publications.
5. Mutual invitations of events organized by both organizations.
6. Cooperation in national and international forums for promotion of Entrepreneurship.
7. Promoting and/or co-organizing trade fairs & exhibitions, conclaves, summits, and conferences etc.

ARTICLE 2

The Parties, within their competence and in full co-operation with each other, will endeavor to take steps that may contribute to the strengthening and development of the present MOU for mutual benefit.

ARTICLE 3

The Parties will cooperate to assist their members in exchanging trade missions, arranging one-on-one business meetings during trade missions, holding of seminars, encouraging, and supporting the mutual participation of their member companies in industrial and trade exhibitions, conferences, summits, conclaves, and other events, for which the Parties will be organizers or hosts.

ARTICLE 4

The Parties undertake to exchange and disseminate information and publications especially on trade fairs and exhibitions, corporate development and commercial practices and co-brand their websites and social media through links.

ARTICLE 5

The Parties may hold meetings whenever they deem it necessary to appraise on the implementation of the present MOU, to make detailed arrangement for the development of specific projects or activities within the framework of the MOU. Each party shall be responsible for coordinating the implementation of its side of the activities.

Sathyabama Innovation Council SIC

K S Ashok

ARTICLE 6

The MOU may be amended, modified, or renewed by mutual consent of the Parties.

ARTICLE 7

The Connect2Investors may Provide a review of Sathayabama Innovation Council startups' Viable Business models, Team Coaching, Product-Market Fit (PMF), Revenue Models, GTM Strategies, Trajectory & Tractions, Tech Stack Evaluation, Funding Potential/Financials, Pitch & Presentation Skills, and suggestions to the startups.

ARTICLE 8

The Parties will at all times keep confidential and not disclose to any third parties, persons or individual any confidential information acquired by the Parties in connection with this MOU unless otherwise authorized in advance in writing by either Party. This article also covers appropriate Data Protection and Information privacy rules & regulations in place.

ARTICLE 9

Connect2Investors will conduct a Startup Demo Day on Sathayabama Innovation Council campus in Q1 or Q2 of 2024.

ARTICLE 10

Connect2Investors will provide Mentors to Sathayabama Innovation Council incubated Startups for their guidance & advice.

ARTICLE 11

The present MOU will enter into effect on the date of its signing and shall remain valid until one of the Parties give the other Party three (3) months written notice of its intention to terminate it.

ARTICLE 12

If any difference or dispute arises between the parties relating to the validity, interpretation, construction or performance of this MOU, the parties shall use their best endeavors to settle amicably such difference or dispute by consultation and negotiation.

Sathyabama Innovation Council SIC

KS Ashok

IN WITNESS WHEREOF, the **Connect2Investors** and the **Sathayabama Innovation Council** to sign this MoU on the 20th of December 2023.

Daniel Prabhakaran G
Head of Incubator
Sathayabama Innovation Council

Ashok Shanmugam
CEO
Connect2Investors (Connect4myCoach Private Limited)

AATSEA

Memorandum of Understanding (MoU)

BETWEEN

SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY

(Deemed to be University)

JEPPIAAR NAGAR, RAJIV GANDHI ROAD, CHENNAI - 600 119.TAMIL NADU. INDIA

&

Association of Agricultural Technology in Southeast Asia (AATSEA)

FOR

SCIENTIFIC AND TECHNICAL COOPERATION

This Memorandum of Understanding (MoU) is entered into and is effective by and between the **Sathyabama Institute of Science and Technology** (Deemed to be University), Chennai, **India** and **Association of Agricultural Technology in Southeast Asia** (AATSEA), **Thailand** both sides collectively referred to as 'Parties', are eager to develop Scientific & Technical cooperation for promoting friendly relations and scientific and technical cooperation between their countries, have reached the following understanding.

Sathyabama Institute of Science and Technology is one of the top Higher Educational Institutions in India with a high reputation for teaching and research. It is a Deemed to be University, established under Sec.3 of the UGC Act, 1956, which has been accredited by the National Assessment and Accreditation Council with A ++' Grade. University Grants Commission has graded the Institution as Category-1 Deemed to be University. Sathyabama offers 49 Bachelor's Programme, 27 Master's Programme, and Doctoral Programme in Engineering, Technology, Law, Dental Science, Pharmacy, Nursing, Arts, Science and Humanities and Management. Sathyabama has a good presence in rankings and ratings at the National and International levels. Sathyabama has been consistently ranked among India's top 50 Universities. Sathyabama is a research-intensive Institution with advanced laboratories and research facilities. Sathyabama has undertaken various sponsored and collaborative R&D projects funded by National and International Organizations. The Institution has state-of-the-art infrastructure and world-class facilities.

The Association of Agricultural Technology in Southeast Asia (AATSEA) is the AATSEA is non-profitable organization and dedicated to a mission of long-term research, education and

2024.08.09 16:05

MEMORANDUM OF UNDERSTANDING
BETWEEN
CENTRE FOR DRUG DISCOVERY AND DEVELOPMENT, SATHYABAMA INSTITUTE OF SICENCE AND TECHNOLOGY, CHENNAI, INDIA
AND
AAVYUKTH COW PRODUCTS, CHENNAI, INDIA

M.1.1 This MEMORANDUM OF UNDERSTANDING (MOU) is made and entered into force on the date of the last authorized signature below (the "Effective Date") between **CENTRE FOR DRUG DISCOVERY AND DEVELOPMENT, SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY ("SIST CDDD")** situated at Rajiv Gandhi Road, Jeppiaar Nagar, Chennai–600119, India represented by **Vice Chancellor**, and **AAVYUKTH COW PRODUCTS**, Chennai, Tamil Nadu, India, represented by **Mrs. Preetha Manigandan**; individually, the "Party" and collectively, the "Parties."

Preamble:

Sathyabama Institute of Science and Technology, a Deemed to be University established under Section 3 of UGC Act 1956, having registered office at Jeppiaar Nagar, Rajiv Gandhi Road, Chennai – 600 119. Tamil Nadu (hereinafter called as 'SATHYABAMA', which expression shall where the context so admits include its successors and permitted assigns) of the second part.

Whereas Centre for Drug Discovery and Development, Sathyabama Institute of Science and Technology has the expertise and facilities, including the Microbial bioprospecting, natural product discovery, diagnostic development, proteomics and genomics. Sathyabama is a prestigious institution which excels in the fields of Engineering, Science and Technology for more than three successful decades. It offers multi-disciplinary academic programmes in various fields of Engineering and Technology, Law, Dental Science, Pharmacy, Nursing, Management, Arts and Science and Allied Health Sciences. It is established under Sec.3 of UGC Act, 1956 and is been Accredited with 'A++' Grade by the National Accreditation and Assessment council. The Institution persistently seeks and adopts innovative methods to improve the quality of higher education and is responsive to the changes taking place in the field of education on a global scale. The Institution has a team of dynamic and outstanding faculty, state of the art infrastructure and world class Research Facilities.

Whereas, Aavyukth Cow Products is working on producing various products from cow milk and waste. Aavyukth develops new and improved solutions to address the issues of pollution, safety, quality and economic efficiency by employing revising and enhancing the existing chemical based

भारतीय गैर न्यायिक

एक सौ रुपये

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भारत INDIA

INDIA NON JUDICIAL

தமிழ்நாடு தமிழ்நாடு TAMILNADU

DD 134178

தேதி 04.11.2023

Sathyabama Institute of Science and Technology Chennai

M. இராஜசேகரன்.
முத்திரைத்தாள் விற்பனையாளர்.
உரிமம் எண்: 7294/சி1/92-1.
552, காந்தி ரோடு, காஞ்சிபுரம்-1.

Memorandum of Understanding (MoU)

This Memorandum of Understanding is entered on this **8th day of November 2023**,

Between

Council of Scientific and Industrial Research, a society registered under the Societies Registration Act (XXI of 1860) and having its registered office at Anusandhan Bhavan, 2, Rafi Marg, New Delhi – 110 001 through Director, National Environmental Engineering Research Institute, having its office at Nehru Marg, Nagpur-440020 (hereinafter called as 'CSIR-NEERI', which expression shall, unless repugnant to the context or meaning thereof be deemed to mean and include its successors and permitted assigns) of the one part,

AND

Sathyabama Institute of Science and Technology, a Deemed to be University established under Section 3 of UGC Act 1956, having registered office at Jeppiaar Nagar, Rajiv Gandhi Road, Chennai – 600 119. Tamil Nadu (hereinafter called as 'SATHYABAMA', which expression shall where the context so admits include its successors and permitted assigns) of the second part.

वैज्ञानिक एवं प्रमुख / Scientist & Head
व्यवसाय विकास एवं परियोजना प्रबंधन प्रभाग
Business Development & Project Management Division
सी.एस.आई.आर.-राष्ट्रीय पर्यावरण अभियांत्रिकी अनुसंधान संस्थान
CSIR-National Environmental Engineering Research Institute
दूर. भाष., नागपुर-440020

SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY

2024.08.09 16:02



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Stamp Vendor
License No. 24/CH(S)2010 DL 30-3-2011
Old No. 23, New No 31, Sarangapani Street,
Sholinganallur, Chennai-600 119.

Sathyabama Institute of Science and Technology

This **Memorandum of Understanding (MoU) is** entered into and executed on 24th August July 2023 between **Sathyabama Institute of Science and Technology**, Rajiv Gandhi Road, Jeppiaar Nagar, Tamil Nadu, Chennai, India-600 119, hereinafter referred to as "SIST" (which term shall mean and include, unless repugnant to the context and meaning thereof, its successors, legal representatives and assigns of the FIRST PART), represented by its **Vice Chancellor**, Dr. T Sasiprabha

and

MEDWAY HOSPITALS (A UNIT OF UNITED ALLIANCE HEALTHCARE PRIVATE LIMITED) located at No 2/26, 1st main road Kodambakkam, Chennai 600024, hereinafter referred to as "Medway" (which term shall mean and include, unless repugnant to the context and meaning thereof, its successors, legal representatives and assigns of the SECOND PART), represented by its **Chairman, Founder and Director,** Dr T Palaniappan.

2024.08.09 16:03

MEMORANDUM OF UNDERSTANDING

BETWEEN

SATHYABAMA INSTITUTE OF SCIENCE & TECHNOLOGY

(Deemed to be University)

Jeppiaar Nagar, Rajiv Gandhi Road, Sholinganallur, Chennai,

Tamil Nadu 600119, India

And

THE COPPERBELT UNIVERSITY

(Public University)

Jambo Drive, Riverside, Post Office Box 21692, Kitwe, Zambia

Sathyabama Institute of Science & Technology, a Deemed to be University established under Section 3 of UGC Act, 1956, located at Jeppiaar Nagar, Rajiv Gandhi Road, Shollinganallur, Chennai, Tamil Nadu, India, (hereinafter referred to as "**SATHYABAMA**") represented by **Dr. T. Sasipraba, Vice Chancellor** and **The Copperbelt University**, a Public University established under the University Act No. 19 of 1987 and its continued existence provided for by the Higher Education Act No. 4 of 2013, having its registered office at plot No. 4662 Jambo Drive, Riverside, Kitwe, (hereinafter referred to as "CBU"), represented by **Prof. Paul Chisale, Vice Chancellor**.

2024.08.09 16:03

MEMORANDUM OF UNDERSTANDING

BETWEEN

CENTRE FOR DRUG DISCOVERY AND DEVELOPMENT, SATHYABAMA INSTITUTE OF SICENCE AND TECHNOLOGY, CHENNAI, INDIA

AND

BIOPOL BIOSCIENCES PVT. LTD., BANGALORE, INDIA

M.1.1 This MEMORANDUM OF UNDERSTANDING (MOU) is made and entered into force on the date of the last authorized signature below (the "Effective Date") between **CENTRE FOR DRUG DISCOVERY AND DEVELOPMENT, SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY ("CDDD-Sathyabama")** situated at Rajiv Gandhi Road, Jeppiaar Nagar, Chennai–600119, India represented by **Vice Chancellor** and **BIOPOL BIOSCIENCES PVT. LTD**, situated at Bangalore Bioinnovation Centre, Helix Biotech Park, IBAB Campus, Electronics City Phase 1, Bengaluru, Karnataka-560100 India, represented by **Mr. Akash S**; individually, the "Party" and collectively, the "Parties."

Preamble:

Whereas CDDD-Sathyabama is hosting basic and applied research having impact on human health. There are four major divisions in the drug discovery facility. Specific goals of each division are as follows,

- **Bioprospecting:** developing in-house microbial consortium through exploring natural resources such as microbes especially actinobacteria and lactic acid bacteria, plants and marine organisms from rare ecosystems for New Chemical Entities (NCEs)
- **Bioactivity:** Screening extracts and purified compounds from selected resources for antimicrobial activities including anti TB and anti HIV activities however not limited to such individual screenings.
- **Medicinal Chemistry:** Purification, characterization and elucidation of the structure and novelty of the active compounds, to study the metabolites profile of natural extract libraries for dereplication and to synthesize their derivatives.
- **Proteomics and Genomics:** Exploration of microbial genomes and proteomic analysis to determine the taxonomic diversity by molecular analysis of their genomes.

2024.08.09 16:10

MEMORANDUM OF UNDERSTANDING

Between

SATHYABAMA
INSTITUTE OF SCIENCE AND TECHNOLOGY
(DEEMED TO BE UNIVERSITY)
CATEGORY - 1 UNIVERSITY BY UGC

And

Ramakrishna Medical Centre LLP,

19, 20, 21, Vivekananda Nagar,
Woraiyur,
Trichy,Tamil Nadu

2024.08.09 16:10

भारतीय गैर न्यायिक

एक सौ रुपये Rs. 100

रु. 100 ONE HUNDRED RUPEES

सत्यमेव जयते

भारत INDIA

INDIA NON JUDICIAL

தமிழ்நாடு तमिलनाडु TAMILNADU DY 128800

AVN Ayurveda Formulations (Pvt) Ltd. Madurai

10/4/2024

MADURAI

MEMORANDUM OF UNDERSTANDING

This MEMORANDUM OF UNDERSTANDING (MOU) is entered and executed on 16th April, 2024. between,

AVN

Since 1930

AVN Ayurveda Formulations Pvt., Ltd (DSIR recognized In-House R & D), 175-A, Vilachery Main Road, Muniyandipuram Madurai– 625004, Tamil Nadu, India. Represented by **Dr. Ramesh R. Varier, Managing Director**

And

SATHYABAMA

INSTITUTE OF SCIENCE AND TECHNOLOGY
(DEEMED TO BE UNIVERSITY)
CATEGORY - 1 UNIVERSITY BY UGC

Sathyabama Institute of Science and Technology, Chennai-600119, Tamil Nadu, India. Represented by **Dr.T. Sasipraba, Vice - Chancellor**

16/4/24

Dr. Ramesh R. Varier
Managing Director
AVN Ayurveda Formulations Pvt. Ltd.
Madurai-625 004

2024.08.09 16:11

SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY

भारतीय गैर न्यायिक

एक सौ रुपये

Rs. 100

रु. 100

ONE HUNDRED RUPEES

सत्यमेव जयते

भारत INDIA

INDIA NON JUDICIAL

தமிழ்நாடு तमिलनाडु TAMILNADU

11.04.2024

DE 808175

The Principal
ANJA College
Sivakasi

MEMORANDUM OF UNDERSTANDING (MoU)

This Memorandum of Understanding is signed between the

SATHYABAMA
INSTITUTE OF SCIENCE AND TECHNOLOGY
(DEEMED TO BE UNIVERSITY)
CATEGORY - 1 UNIVERSITY BY UGC

Centre for Drug Discovery and Development, **Sathyabama Institute of Science and Technology (Deemed to be University), Jeppiaar Nagar, Rajiv Gandhi Road, Chennai - 600 119, Tamil Nadu** (hereafter named **Party 1**) and

AYYA NADAR JANAKI AMMAL COLLEGE
(Autonomous, Affiliated to Madurai Kamaraj University)
Sivakasi – 626124

Department of Zoology of **Ayya Nadar Janaki Ammal College** (Autonomous), **Sivakasi - 626124, Tamil Nadu** (hereafter named **Party 2**) on **Monday**, the 16th date of **April** of the year **2024**.

16/4/24

Dr.C. ASHOK, M.P.Ed.,M.Phil.,D.Y.Ed.,Ph.D.,
PRINCIPAL
Ayya Nadar Janaki Ammal College (Autonomous)
SIVAKASI (WEST) - 626 124.

2024.08.09 16:11

SATHYABAMA
INSTITUTE OF SCIENCE AND TECHNOLOGY
(DEEMED TO BE UNIVERSITY)

Accredited with Grade "A" by NAAC | 12B Status by UGC | Approved by AICTE

Organized by

Centre for Aquaculture

Patrons

Dr. Mariazeena Johnson
Chancellor

Dr. Marie Johnson
President

Mr. J. Arul Selvan
Vice President

Mrs. Maria Bernadette Tamilarasi
Vice President

Ms. Maria Catherine Jayapriya
Vice President

Dr. T. Sasipraba
Vice-Chancellor

Organizing Secretary

Dr. M. V. Rajeswari
Scientist-C, Centre for Aquaculture

Conveners

Dr. V. Ramesh Kumar
Head-Dept. Biotech

Dr. M. Masilamani Selvam
Associate Professor , Dept. Biotech

Organizing Team

Ms. T. Nivetha, Research Scholar
Ms. L. Swathika, Research Scholar

Contact for further details:
Centre for Aquaculture, SIST
E-mail : raji.shwehari@gmail.com, aquaculture@sathyabama.ac.in

National Workshop on

SUSTAINABLE FISHERIES AND COASTAL AQUACULTURE

Date: 30.03.2023 (10.30 am to 1.30 pm)

Venue: International Research Centre, SIST





Chief Guest



Dr. Kuldeep K. Lal
Director
ICAR-Central Institute of Brackish water Aquaculture, Chennai

Guest of Honour



Dr. T. Balasubramanian
Former Vice Chancellor
Chettinad Academy of Research & Education, Chennai

Guest of Honour



Dr. R. Jayaraman
Dean
School of Agriculture, Horticulture and Fisheries Sciences, Sathyabama Institute of Science and Technology, Chennai

Special Address



Dr. E. Suresh
Assistant Professor & Head
Department of Fish Genetics and Breeding, Institute of Fisheries Post Graduate Studies
TNJFU, Chennai

MEMORANDUM OF UNDERSTANDING
BETWEEN
SATHYABAMA INSTITUTE OF SCIENCE & TECHNOLOGY
AND
NEELITHAL AQUA FARMS, METUPALAYAM

Sathyabama Institute of Science & Technology, a Deemed to be University established under Section 3 of UGC Act, 1956, located at Jeppiaar Nagar, Rajiv Gandhi Road, Chennai- 600 119, Tamil Nadu, represented by **Dr. T. Sasipraba, Vice Chancellor** and **Neelithal Aqua Farms,** Pattakkaranur, Mettupalayam-641 653, Tamil Nadu represented by **Mr. Nisar Mohamed, Co-Founder** recognizing the benefits to their respective Institutions enter into this Memorandum of Understanding (MOU).

Purpose

The purpose of this MOU is to state the intentions of the parties in undertaking a mutual collaboration in the research and development of Aquaponics production system for freshwater aquaponics and marine aquaponics.

Sathyabama Institute of Science & Technology and Neelithal Aqua Farms have common scientific and research interests and will cooperate in performing the activities stated below. From Sathyabama Institute of Science and Technology, scientists from Centre for Climate Change Studies will be leading in the implementation of the activities stated in the MOU.

Scope of collaboration

The scope of collaboration on research activities to be pursued through this MOU includes the following:

- Carrying out research activities related to the development of Aquaponic production system in terms of using both freshwater and salt water.
- Identifying and developing solutions, especially specialized feed formulation, water quality parameter testing, microbial growth, monitoring of plant and fish growth etc. that are useful for the betterment of aquaponics system and its production.
- Applying to funding agencies for carrying out R&D projects of mutual interest in the area of aquaponics production systems.

Intellectual property

- The spin offs, publications and reports will be the joint property of both Sathyabama and Neelithal Aqua Farms and can be used for identified purposes.

- Should the collaborative research activities under the MOU result in any potential for intellectual property; both the parties shall seek an equitable and fair understanding as to ownership and other property interests that may arise

Validity

This MOU shall be in effect for a period of Five (5) years from the date of signature. Either party may request termination of this agreement, in writing, Ninety (90) days prior to the proposed termination date. Any activities in progress at the time of termination shall be permitted to conclude as planned unless otherwise agreed in writing.

Amendments to this MOU may be requested, in writing, by either party and approved by the authorized signatories

Use of Names and Logos

None of the parties shall use the name, logo, likeness, trademarks, image, or other intellectual property of either of the other parties for any advertising, marketing, endorsement, or any other purposes without the specific prior written consent of an authorized representative of the other party as to each such use.

Use of data

Should the collaborative research activities for projects under the MOU, if initiated by the Sathyabama Institute of Science and Technology or Neelithal Aqua Farms, the data should not be presented or released in a public forum without prior approval by both the parties.

Confidential information shall be exchanged only under the terms of a separate agreement, whether a non-disclosure agreement, sponsored research agreement, material transfer agreement, or data use agreement. No confidential information shall be disclosed pursuant to this MOU.

This agreement is to be signed in two identical copies in English, one for each of the Parties. Amendments to this MOU may be requested, in writing, by either party and approved by the authorized signatories.

For Sathyabama Institute of Science & Technology

Name: **Dr. T. Sasipraba**
Designation: **Vice Chancellor**
Date: 15.10.2022

SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY

For Neelithal Aqua Farms

Name: **Mr. Nisar Mohamed**
Designation: **Co-Founder**
Date: 15.10.2022

For NEELITHAL AQUA FARMS

(Nisar Mohamed K F)
Managing Partner

Memorandum of Understanding
Among

[1]Sathyabama Institute of Science and Technology (Deemed to be University), Chennai, Tamil Nadu, India

[2]Vaxigen International Research Center, Coimbatore, Tamil Nadu, India

[3]AAARNA Therapeutics, Bangalore, Karnataka, India

The scope of this agreement

This Memorandum of Understanding (MoU) is entered on April 12th 2024, by and among Sathyabama Institute of Science and Technology (Deemed to be University) (hereafter referred to as SIST, Address: Rajiv Gandhi Salai, Chennai, Tamil Nadu – 600 119, India) established under section (3) of the UGC Act, 1956 (A Christian Minority Institution) and Vaxigen International Research Center Private Limited (hereafter referred to as VIRC) with its Registered Office at No 32, C.S.Nagar Extension Second Cross road, Vadavalli, Coimbatore, Tamil Nadu - 641041 holding CIN: U73100TZ2021PTC036150 and AAARNA Therapeutics Private Limited with an address of C-CAMP, UAS-GKVK Campus, Bellary Road, Bangalore - 560 065, holding CIN: U24230MH2021PTC368585; aim to establish and develop a strategic collaborative relationship in order to develop a vaccine for Chikungunya virus.

ВОЛГОГРАДСКИЙ
ГОСУДАРСТВЕННЫЙ
УНИВЕРСИТЕТ

MEMORANDUM OF UNDERSTANDING
BETWEEN

SATHYABAMA
INSTITUTE OF SCIENCE & TECHNOLOGY

Jeppiaar Nagar, Rajiv Gandhi Road, Sholinganallur, Chennai,
Tamil Nadu 600119, India

And

FEDERAL STATE AUTONOMOUS EDUCATIONAL INSTITUTION OF HIGHER EDUCATION
"VOLGOGRAD STATE UNIVERSITY"

100 Prospect Universitetsky, Volgograd, 400062, Russia

Sathyabama Institute of Science & Technology, a Deemed to be University established under Section 3 of UGC Act, 1956, located at Jeppiaar Nagar, Rajiv Gandhi Road, Shollinganallur, Chennai, Tamil Nadu, India, represented by **Dr. T. Sasipraba, Vice Chancellor** and **Federal State Autonomous Educational Institution of Higher Education "Volgograd State University"**, represented by **Prof. Dr. Alla Kalinina, Rector**, recognizing the benefits to their respective institutions from the establishment of the partnership, conclude this Memorandum of Understanding (MoU).
Sathyabama Institute of Science & Technology and Federal State Autonomous Educational Institution of Higher Education "Volgograd State University" are referred to collectively as "Universities" or individually as "University".

1. The purpose of this MoU is to develop academic and research co-operation and to promote mutual understanding between the Universities.

2. The Universities agree to develop the following collaborative activities in the areas of mutual interest.

   i. Student Mobility Programme (Student Exchange/Semester Abroad/ Internship)
   ii. Staff Mobility (Faculty Exchange/Visiting Professors/Adjunct Professor)
   iii. Joint Research
   iv. Technology Development
   v. Joint seminar & conference
   vi. Exchange of facilities and resources
   vii. Joint Publication/Patents/Copy rights

भारतीय गैर न्यायिक

एक सौ रुपये

Rs. 100

रु. 100

ONE HUNDRED RUPEES

सत्यमेव जयते

भारत INDIA

INDIA NON JUDICIAL

தமிழ்நாடு तमिलनाडु TAMILNADU

24 APR 2024

Sathyabama Institute of Science And Technology

DC 118077

J. LAKSHMANAN
STAMP VENDOR
L.NO:13/ஆ3/97
112, Tana Street, Chennai - 07.

Orcci eco
Expert Sustainable Solutions
ESG | GHG | Carbon Footprint
Biogas | Composting Machines

Memorandum of Understanding (MOU)

This Memorandum of Understanding ("MOU") is made and entered into as of 10th August, 2024, by and between:

- **Orcci Eco Products,** a Partnership Firm with its principal place of business at 1A 4, Monish Enclave, Sri Abinandhan Nagar, Nanmangalam, Chennai – 600129, India.
- **Sathyabama Institute of Science and Technology**, the Institute located at Rajiv Gandhi Salai, Jeppiaar Nagar, Sholinganallur, Chennai - 600119.

WHEREAS, Sathyabama desires to provide such analysis services to Orcci at a previously fixed rate and with priority handling.

NOW, THEREFORE, in consideration of the foregoing premises and the mutual covenants contained herein, the parties agree as follows:

1. Services

- **1.1 Orcci Services:** Orcci will remain responsible for the overall biogas process optimization, including collecting samples from clients having biogas plants commissioned pan India.
    - **1.1.1 Initial Analyses:** Orcci may conduct a required number of initial screening analyses in-house, at its sole discretion.
    - **1.1.2 Choice of Screening Analyses:** Orcci may choose any analyses it deems necessary, with a focus on tests not included on the list provided by Sathyabama. These analyses should be focused on basic parameters or in-depth investigations to complement the more in-depth analyses offered by Sathyabama.

2. Term and Termination

- This MOU shall be effective as of the date first written above and shall continue for a period of 2 years. The MOU may be renewed by mutual written agreement of the parties.
- This MOU may be terminated by either party upon 15 days' written notice to the other party, without cause.

3. Confidentiality

- The parties agree to hold in confidence all information received from the other party pursuant to this MOU, except for information that is (i) already known to the receiving party, (ii) publicly known, or (iii) independently developed by the receiving party.

4. Additional Provisions

- **4.1 Right of First Refusal** In the event that either party desires to expand its presence in the biogas process optimization analysis market in the future, the parties agree to grant each other a right of first refusal for a period of 10 days to negotiate a mutually agreeable collaboration agreement.

4.2 Information Exchange

- **Purpose:** Facilitate efficient communication and collaboration by establishing a clear information exchange process.
- **Details:**
    - Parties agree to exchange information relevant to the project objectives, including:
        - Sample data and analysis results (anonymized if containing client-specific details).
        - Research findings and technical reports.
        - Project progress updates.

- Define the format for information exchange (e.g., electronic reports, periodic meetings).
- Establish a frequency for information exchange (e.g., monthly reports, quarterly meetings).
- Emphasize the importance of anonymizing any client-specific data before sharing it.

4.3 Institutional Coordinators

- **Purpose:** Designate points of contact within each organization to ensure smooth communication and collaboration.
- **Details:**
  - Each party shall designate a representative (Institutional Coordinator) responsible for:
    - Overseeing communication and information exchange.
    - Addressing any issues or concerns that may arise.
    - Facilitating collaboration between technical teams.
  - Include contact information (name, title, email address) for each Institutional Coordinator in the MOU.

4.4 Orcci's Business Opportunities

- **Purpose:** Recognize Orcci's right to leverage the collaboration for its business development.
- **Details:**
  - Orcci may present solutions and services developed through this collaboration to its clients.
  - Orcci must acknowledge Sathyabama's contribution to the development of such solutions and services.
  - Consider specifying the level of detail Orcci can disclose about the collaboration (e.g., mention the collaboration existence but avoid revealing specific technical details).

4.5 Marketing Disclosure

- **Purpose:** Allow Orcci to promote the collaboration for marketing purposes.
- **Details:**
  - Orcci may mention the existence of this MOU for marketing and promotional activities.
  - Orcci must obtain Sathyabama's prior written approval before any marketing disclosure apart from the, existence of this MOU.
  - Marketing materials should ensure the confidentiality of any sensitive terms of the MOU.

- **4.6 Response Time for Approval Requests:** Sathyabama's Should response to Orcci's requests for approval of additional analyses within 10 working days. This ensures timely communication and avoids delays in Orcci's process.

5. Term of Agreement

This MOU is valid for a period of 2 years from the date of signing and may be renewed by mutual consent.

6. Acknowledgement

This MOU is executed in triplicate with each copy being an official version of the Agreement and having equal legal validity.

Signatures

Orcci Eco Products:

ORCCI ECO PRODUCTS CHENNAI-129

Dr. Sridhar Harikrishnamoorthy

Founder

Sathyabama Institute of Science and Technology:

10/8/24

Dr. T. Sasipraba

Vice Chancellor

MoES/11-MRDF/ESTC-MEB(SU)/2/2014 PC-III
Government of India
Ministry of Earth Sciences
*****

Prithvi Bhawan,
Lodhi Road, New Delhi-110003
Dated: 21/02/2022

SANCTION ORDER

In continuation of this Ministry's Administrative Order of even no. dated 18/06/2019 and sanction order of even number dated 18/06/2019, sanction of the President is hereby conveyed under Rules 18 of the Delegation of Financial Power Rules, 1978 for the release of **Rs.75,00,000/- (Rupees seventy five lakhs only)** to the Registrar, Sathyabama, Institute of Science and Technology, Jeppiaar Nagar, Rajiv Gandhi Salai, Chennai – 600119 during the current financial year 2021-22 as 2nd year grant for implementation of the network projects under ESTC (Marine Biotechnological Studies) as per following details.

Project – 1

Title: - "Studies on the implications of engineered nanoparticles and bio nanocomposites in aquatic animal health"
Principal Investigator: Dr. Radhika Rajasree S.R., Scientist E
Co-Investigator: Dr. D Inbakandan, Scientist E and Dr.L Stanley Abraham, Scientist E

Budget (In Rupees)

S.No.	Item	2nd & 3rd Year
	RECURRING	
1	Research Staff JRF – 2 Nos. @ Rs.31,000/pm+ 24% HRA	17,00,000
2	Consumable	3,50,000
3	Contingencies	10,000
4	Other expenses (Cost of samples analysis/outsource, etc.)	30,000
5	Travel	10,000
6	Over head	0
	Total	**21,00,000**

Project – 2

Project title: "Surface modification nanotechnological approach for antifouling and anticorrosion applications"
Principal Investigator :Dr. D. Inbakandan, Scientist E
Co- Principal Investigator :Dr.L.Stanley Abraham, Scientist E and Dr.Radhika Rajsree S R., Scientist E

14/3/22

21/2/2022

Brief Budget Estimation (In Rupees)

S. No.	Item	2nd & 3rd Year
	RECURRING	
1	JRF – 1 no. @ Rs.31,000/pm + 24% HRA	8,50,000
2	Consumable	1,00,000
3	Contingencies	10,000
4	Other expenses (Cost of samples analysis/outsource, etc.)	50,000
5	Travel	50,000
6	**Over head**	0
	Total	**10,60,000**

Project - 3

Project title: "Enhancement of marine microbial by-products for biomedical applications"

Principal Investigator : Dr. L. Stanley Abraham, Scientist E

Co – Investigator : Dr. D. Inbakandan, Scientist E and Dr.Radhika Rajasree S.R., Scientist E

Budget Estimates (In Rupees)

S. No.	Item	2nd & 3rd Year
	RECURRING	
1	Research staff **JRF - 1** @ Rs.31,000/pm + 24% HRA	8,50,000
2	Consumable	1,20,000
3	Contingencies	20,000
4	Other expenses (Cost of samples analysis/outsource, etc.)	35,000
5	Travel	75,000
6	Over head	0
	Total	**11,00,000**

Project – 4

Project title: "Biofunctionalization nanoparticles for anticancer applications using marine biosources"

Principal Investigator :Dr. V. Ganesh Kumar, Scientist E

Co- Principal Investigator :Dr. L. Stanley Abraham, Scientist E and Dr. K. Govindaraju, Scientist C

Budget Estimates (In Rupees)

S. No.	Item	2nd & 3rd Year
	RECURRING	
1	**Research Staff** JRF-1 @ Rs.31,000/pm + 24% HRA	7,50,000
2	Consumable	2,50,000
3	Contingencies	20,000
4	Other expenses (Cost of samples analysis/outsource, etc.)	70,000
5	Travel	80,000
6	Over head	0
	Total	**11,70,000**

21/2/2022

Project – 5

Project title: "Isolation and identification of bioactive compounds from marine sponges for white spot syndrome virus (WSSV) control"

Principal Investigator : Dr. K. GOVINDARAJU, Scientist C

Co- Principal Investigator : Dr.D.Inbakandan, Scientist E and Dr.V.Ganesh Kumar, Scientist E

Budget Estimates (In Rupees)

S. No.	Item	2nd & 3rd Year
	RECURRING	
1	**Research Staff** JRF-1 @ Rs.31,000/pm + 24% HRA	8,50,000
2	Consumable	3,50,000
3	Contingencies	20,000
4	Other expenses (Cost of samples analysis/outsource, etc.)	50,000
5	Travel	80,000
6	Over head	0
	Total	**13,50,000**

Year wise Operational expenses of ESTC Cell at Sathyabama University, Chennai

	2nd & 3rd Year
ESTC cell Operational expenses (Expense on meeting of SSE committee travel, consumables etc.,)	2,70,000
Manpower for ESTC cell operations **Field Assistant-1 @ Rs. 10,500/pm** **Accounts Assistant-1 @ Rs. 10,500/pm**	4,50,000
Total	**7,20,000**

2. The amount of **Rs. Rs. 75,00,000/- (Rupees seventy five lakhs only)** will be transferred though RTGS to the Sathyabama University, Jeppiaar Nagar, Chennai-600119., Bank details is as below:

Bank Name	Indian Bank
Account Number	6089858032
Agency Name as per Bank	Sathyabama, Institute of Science and Technology
Branch Name	Sathyabama, Institute of Science and Technology
MICR Code	600019229
IFSC Code	IDIB000S201

3. The expenditure involved is debitable to the following Head of Account:
   Major Head "3425" - Other Scientific Research (Major Head)
   60.200 - Assistant to Other Scientific Bodies (Minor Head)
   52 - Research Education & Training Outreach
   52.00.31 - Grants-in-aid (General)
   Under Demand No. 23 of Ministry of Earth Sciences for the year 2021-22.

M Daniel
21/2/2022

4. The Sathyabama, Institute of Science and Technology University, as per Rule 238 of GFR 2017 relating to UC for FY 2017-18 for the fund released, is certified and is enclosed herewith. Program Division has confirmed that no UC is pending in respect of any grants released for this programme.

5. The Sathyabama, Institute of Science and Technology University shall send the Utilization Certificate (UC), Statement of Expenditure (SoE) of the amount and DBT details of manpower in the required Performa. The Sathyabama, Institute of Science and Technology University shall ensure that UC/SoE includes interest earned on MoES grants. The subsequent/final installment will be released only after confirmation of the acceptance of the UC by the Ministry.

6. The grantee organization will maintain separate audited account for the project and the entire amount of grant will be kept in an interest bearing bank account. The interest earned/ accrued should be reported to MoES (financial year wise) while submitting the Statement of Expenditure/Utilization Certificate. As per Rule 230(8) of GFR, 2017, all interests of other earnings against Grants-in-aid or advances should be mandatorily remitted to the Consolidated Found of India immediately after finalization of the accounts.

7. This sanction is subject to the condition that the grantee organization will furnish to the Ministry of Earth Sciences, financial year wise Utilization Certificate (UC) in the proforma prescribed as per GFR 2017 and audited statement of expenditure (SE) along with up to date progress report at the end of each financial year duly reflecting the interest earned/ accrued on the grants received under the project. This is also subject to the condition of submission of the final statement of expenditure, utilization certificate and project completion report within one year from the scheduled dated of completion of the project.

8. The grantee organization will have to enter & upload the Utilization Certificate in the PFMS portal besides sending it in physical form to this Division. The subsequent/final installment will be released only after confirmation of the acceptance of the UC by the Division and entry of previous Utilization Certificate in the PFMS.

9. Failure to comply with the terms and conditions of the terms will entail full refund with interest in terms of Rule 231 (2) of GFR 2017.

10. Expenditure, Advance and Transfer (EAT) module of PFMS should be activated for the grants released under the project and expenditure under the project shall be monitored through EAT module.

11. As per rule 236 (1) of GFR, 2017 the account of grantee institution shall be open inspection by the sanctioned authority/audit whenever the institute is called upon to do so.

12. The necessary entry has been made in Expenditure Central Registrar (ECR) for the year 2021-22 at Sl. No. 124 Page No. 80.

M Daniel
21/2/2022

13. This issues under the power delegated to this Ministry and with the concurrence of I.F. Division vide Dy. 361/IFD/1427/2021-22/REACHOUT dated 09.02.2022 and approvals of Secretary vide e-file no. 1427 dated 11/02/2022.

21/2/2022

(Manjula Daniel)
Under Secretary to the Govt. of India

To
The Pay and Accounts Officer,
Ministry of Earth Sciences,
Prithvi Bhavan, Lodhi Road,
New Delhi – 110 003.

Copy to:

1. Cash Section, MoES for action.
2. The Principal Director of Audit(Scientific Department), AGCR Building, I.P. Estate, New Delhi.
3. Registrar, Sathyabama, Institute of Science and Technology, Jeppiaar Nagar, Rajiv Gandhi Salai, Chennai – 600119.
4. Dr. B. Sheela Rani, Director(Research), Project-Coordinator (ESTC-MBS), Sathyabama, Institute of Science and Technology, Jeppiaar Nagar, Rajiv Gandhi Salai, Chennai – 600119. (Email:- kavisheela66@gmail.com)
5. Director, National Institute of Technology (NIOT), Chennai. (Email:- director@niot.res.in)
6. Director, Centre for Marine Living Resources & Ecology (CMLRE), Kochi.(Email:- director@cmlre.gov.in)
7. Dr.Radhika Rajasree S.R., Scientist E, Sathyabama, Institute of Science and Technology, Jeppiaar Nagar, Rajiv Gandhi Salai, Chennai – 600119. (Email:- radhiin@gmai.com)
8. Dr. D. Inbakandan, Scientist E, Sathyabama, Institute of Science and Technology, Jeppiaar Nagar, Rajiv Gandhi Salai, Chennai – 600119.(Email:- inbakandan@gmail.com)
9. Dr. L. Stanley Abraham, Scientist E, Sathyabama, Institute of Science and Technology, Jeppiaar Nagar, Rajiv Gandhi Salai, Chennai – 600119. (Email:- stanleyabraham.cor@gmail.com)
10. Dr. V. Ganesh Kumar, Scientist E, Sathyabama, Institute of Science and Technology, Jeppiaar Nagar, Rajiv Gandhi Salai, Chennai – 600119. (Email:- ganesv@gmail.com)
11. Dr. K. GOVINDARAJU, Scientist C, Sathyabama, Institute of Science and Technology, Jeppiaar Nagar, Rajiv Gandhi Salai, Chennai–600119.
    (Email:- goindaraju@sathyabamauniversity.ac.in)
12. Programme Head(GI)/ Sci.'F'(JVS).(Emai:- gopal.iyengar@nic.in, jvsingh.moes@nic.in)
13. Controller of Accounts, Prithvi Bhavan, Lodhi Road, New Delhi.
14. Sanction folder/Guard file.

21/2/2022

(Manjula Daniel)
Under Secretary to the Govt. of India

OIC

22/2/22

Public Financial Management System-PFMS (formerly CPSMS)
O/o Controller General of Accounts, Ministry of Finance

Welcome: **jagvir singh**
User Type: **PD**
Financial Year: **2021-2022**

[**jv.moes1**] Logout
Change Password
Login History
English
Help

- AdhocReports
- SchemeWiseContactDetails
- Home
- CAM Reports
- User Manuals
- Masters
- Users
- Agency
- Sanctions
- PreSanction
- Sanction Custom Fields
- Printing Templates
- Sanction Templates
- Employee Info. System
- Reports
- Masters
- My Schemes
- Agencies
- My Funds
- Scheme Allocation
- Register/ Track Issue
- Utilisation Certificate
- OLD UC

Sanction Details

Controller:	081-EARTH SCIENCES	**Sanction Status:**	**Approved**
Sanction Number:	MoES/11-MRDF/ESTC-MEB(SU)/2/2014 PC-III	**Sanction Date:**	21/02/2022
Sanction Type:	Transfer (DDO Bill)	**Sanction Amount:**	7500000
IFD Number:	361/IFD/1427/2021-22/REACHOUT	**IFD Date:**	09/02/2022
Scheme:	0325-Research, Education and Training Outreach (REACHOUT)	**PAO:**	075211-PAO (Ocean Development) New Delhi
DDO:	200275-Section Officer (Cash)	**Remarks:**	Approved

☐ North East Expenditure

Created By:	jv.moes1	**Created On:**	22/02/2022 10:54:35 AM
Modified By:	jv.moes1	**Modified On:**	22/02/2022 11:04:23 AM

Account Details:

Grant	Department (For UT Grants Only)	Function Head	Object Head	Category	Amount	External PAO	Available Budget
023 - Ministry of Earth Sciences		3425602005200 - RESEARCH EDUCATION AND TRAINING OUTREACH	31 - GRANTS-IN-AID GENERAL	5 - VOTED	7500000		-25876637

Agency Details:

Sr.No	Agency Name	City	District	State	Country	Gross Amount	Deduction Amount	Net Amount	Payee Remarks
1	Sathyabama University, Chenni	Chennai	CHENNAI	TAMIL NADU	INDIA	7,500,000	0	7,500,000	2nd and 3rd year releas
					Total	**7500000**	**0**	**7500000**	

Sanction Approved Successfully.

Payee Details | Print Sanction Order | Back

Government of India
Department of Atomic Energy (DAE)
Board of Research in Nuclear Sciences (BRNS)

Shri S. Pramanik
Programme Officer (WWM)

BRNS Secretariat, 316-C,
CFB, BARC, Trombay,
Mumbai - 400085

No: 56/14/03/2020-BRNS/36152

Date: 12/11/2020

OFFICE MEMORANDUM

Sub: **R/P entitled "Development of antifouling technologies against green mussel fouling for process coolingwater system of MAPS" under Dr. D Inbakandan, SO/E-Centre for Ocean Research, Sathyabama Instituteof Science and Technology, Chennai, Tamil Nadu, 600119. bearing sanction 56/14/03/2020-BRNS with WWM, BRNS.**

On the recommendations of the Board of Research in Nuclear Sciences (BRNS), I am pleased to convey the administrative approval and sanction of the President of India for the captioned project for **3 years** beginning from financial year **2020-2021** with a total grant of **Rs. 33,97,100/- (Rupees thirty three lakh ninety seven thousand one hundred only)** for the project as under :

Item of expenditure	Year 1 (2020-2021)	Year 2 (2021-2022)	Year 3 (2022-2023)
Staff Salary - JRF	372000	372000	0
Staff Salary - SRF	0	0	420000
Technical Assistance	180000	180000	180000
Consumables	350000	350000	400000
Travel - PI	50000	50000	50000
Overheads	71400	71400	78750
Total(INR)	**1023400**	**1023400**	**1128750**

JRF salary calculated @31,000/- p.m. for first two years and on re-designation by committee on in third year as SRF @ 35,000/- p.m.

Please note that as per the government orders under **Direct Benefit Transfer (DBT)scheme, the staff salary has to be transferred to his/her bank account**. Accordingly, Aadhar Number(UID) of the appointed staff, Bank Account details and the Mobile number linked to the bank account should be obtained and it should be intimated to this office.

Overheads calculated @ 7.5% of the other heads except contingency. The remaining 7.5% towards overheads **(Rs. 2,21,550/-)** shall be released only on meeting the requirements specified (See Annex-B).

2. I am also pleased to convey the sanction of the President of India to incur an expenditure of **Rs. 10,23,400/- (Rupees ten lakh twenty three thousand four hundred only)** towards grant for the year 2020-2021 .
3. The expenditure involved is debitable to: **03 3401 00 004 27 0231.**
4. This is issued with the concurrence of the competent authority in the Department.

13/11/2020

S. Pramanik

Pay & Accounts Officer,
DAE, Mumbai - 400 001.

Copy forwarded to:

1. Director of Audit, Scientific Department, AEAP, OYC, CSM Marg, Mumbai-400 001.
2. Joint Secretary (R&D), DAE, Anushakti Bhavan, CSM Marg, Mumbai-400 001.
3. Director, Sathyabama Institute of Science and Technology, Chennai, Tamil Nadu, 600119..
4. Principal Investigator(PI): Dr. D Inbakandan, SO/E-Centre for Ocean Research, Sathyabama Institute of Science and Technology, Chennai, Tamil Nadu, 600119..

A. First year grant is being released in full along with this Sanction Letter through Pay & Accounts Officer, Department of Atomic Energy, Anushakti Bhavan, CSM Marg, Mumbai-400 001 directly. You may await a Money transfer (MT) through ECS and The amount would be credited electronically to A/C No: 6089858032, A/C Name: Sathyabama University - Research, IFSC: IDIB000S201, Indian Bank, Sathyabama University Branch, Sollinganalloor, Chennai.

i) Acceptance of this sanction and the MT for the amount sanctioned for the first financial year may please be acknowledged (Form-I).

ii) A sticker of the BRNS LOGO (Copy Enclosed) should be pasted on all the items procured under the project.

iii) THIS SANCTION IS FURTHER SUBJECT TO THE CONDITIONS STIPULATED IN ANNEX (ENCLOSED), WHICH MAY BE GONE THROUGH CAREFULLY.

B. Second year Sanction Letter will be issued automatically in the month of April/May of the 2nd financial year, however, the grant will be released (unspent balance of previous year and Interest earned will be adjusted) after the PI submits the following documents to the Programme Officer WWM:

a) Claim in Form-II quoting the reference of the sanction issued for the first year.

b) Utilisation Certificate (UC) as on 31st March of the preceding financial year in Form-III duly audited by the Internal Auditor of the University/ Institution or a Chartered Accountant.

c) Statement of Accounts (SA) as on 31st March of the preceding financial year should be updated on the website. Interest earned in previous year should be reflected in the Statement of Accounts. A printout of the same should be sent to BRNS after it is duly audited by the Internal Auditor of the University/ Institution or a Chartered Accountant.

d) Copy of appointment order and joining report of the staff appointed for the project along with minutes of the Selection Committee, alongwith HRA CLAIM (if applicable), should be uploaded in a single pdf file under the file head "Staff Appointment Details". In addition, the details of the appointed staff should also be updated in the available menu.

e) The inventory of equipment also should be updated in the menu, besides uploading the purchase order of the items costing more than 1 Lakh.

f) A One Page report on the progress of work during first year.

C. Third and subsequent years (if any) the Sanction Letter and the grant will be released on fulfillment of the following requirements:

i) Renewal/ Extension Application: Principal Investigator (PI) is required to upload by January 15 a pdf copy of duly signed renewal/ extension application in the prescribed form-(PRA) after logging into his/her account at https://bms.res.in. All applications received shall be examined by experts from the field and PIs may be invited to a Technical Programme Discussion Meeting (TPDM). Renewal of the project will be based on the recommendations of the TPDM, Advisory Committee and the Board.

ii) Sanction Letter: If the progress is found to be satisfactory the renewal sanction for the year will be issued in the beginning of that financial year in April/May.

iii) Claim: On receipt of the renewal sanction, the PI shall claim the funds sanctioned by submitting the following documents to Programme Officer WWM, 316-C, Common Facility Building, BARC, Trombay, Mumbai-400085:

a) Claim in Form-II quoting reference of the renewal sanction.

b) Utilisation Certificate (UC) as on 31st March of the preceding financial year in Form-III duly audited by the Internal Auditor of the University/ Institution or a Chartered Accountant. should be reflected in the Statement of Accounts.

c) Statement of Accounts (SA) as on 31st March of the preceding financial year including the amount of Interest earned in previous year and duly audited by the Internal Auditor of the University/ Institution or a Chartered Accountant.

d) Copy of appointment order and joining report of the staff appointed for the project along with minutes of the Selection Committee.

e) An inventory of equipment and the copy of Purchase order of equipments costing more than 1 Lakh.

D. At the end of Terminal Year the Settlement Grant and the Balance 7.5% Overheads will be released on fulfillment of the following requirements:

a) Claim Form-II if any,

b) The final Consolidated Statement of Accounts (SA) and Consolidated Utilization Certificate duly audited by an external Chartered Accountant or the Statutory (Govt.) Auditor. It is mandatory to include the amount of bank interest earned on the grant released into the SA.

c) Final Consolidated Progress Report and a brief report as per format given in Form-VII .

5. AAO (Cheque), DAE, Anushakti Bhavan, CSM Marg, Mumbai - 400 001 – With a request that the amount granted for the first year of the project may be released.
6. Member Secretary (WWM) : Dr. A K Ghosh, akghosh@barc.gov.in;
7. Co-Investigator (CI) : Dr. Radhika Rajasree.SR., Centre for Ocean Research (DST-FIST Sponsored Centre) Col. Dr. Jeppiaar Research Park Sathyabama Institute of Science and Technology Chennai - 600 119, Tamil Nadu, India., Email : radhiin@gmail.com, Mobile :9840927503Dr. L. St
8. Project Collaborator (PC): Dr. P. Sriyutha Murthy, SO - E, Biofouling and Thermal Ecology Section Water and Steam Chemistry Division (Chemistry Group, Bhabha Atomic Research Centre) BARC Facilities, Kalpakkam, Tamil Nadu 603 102, Email : psmurthy@igcar.gov.in, Mobile : 044 27480500 Extn. 23341

You or your nominee may please be the DAE representative for selection of Research Fellow/ Research Associate for the project.

13/11/2020

S. Pramanik

Note:

1. Please quote the Sanction Number 56/14/03/2020-BRNS in all your correspondence with BRNS

No. BT/PR41474/NDB/39/760/2020
GOVERNMENT OF INDIA
MINISTRY OF SCIENCE &TECHNOLOGY
DEPARTMENT OF BIOTECHNOLOGY

Block 2, 6-8th Floors
CGO Complex, Lodhi Road,
New Delhi- 110 003
Dated: 28.09.2021

ORDER

Sanction of the President is hereby accorded, under Rule 18 of the Delegation of Financial Powers Rules, 1978, for the implementation of the Project entitled "**Bioprospecting of Marine microbial diversity for various products" under the Marine Bioresource and Biotechnology Network Programme** with a total cost of **Rs. 63875024/- (Rupees Six Crores Thirty Eight Lakhs Seventy Five Thousand and Twenty Four Only)** for a period of three years on the terms and conditions detailed here under:-

2. Project

2.1 Project Title: ***"Bioprospecting of Marine microbial diversity for various products" under the Marine Bioresource and Biotechnology Network Programme***

2.2 Project Co-ordinator:

Dr. Yogesh S Shouche
Emeritus Scientist,
National Centre for Microbial Resource,
National Centre For Cell Science,
First floor, Central Tower, Sai Trinity Building,
Pune - 411 021

SUB-PROJECT – A

(i) Periyar University, Salem

Principal Investigator:

Dr. R. Balagurunathan
Professor & Head,
Department of Micorbiology,
School of Bioscience,
Periyar University, Salem - 636 011

डा. मनोज कुमार मोदी / Dr. Manoj Kumar Modi
वैज्ञानिक 'ई' / Scientist 'E'
बायोटेक्नोलॉजी विभाग / Deptt. of Biotechnology
विज्ञान और प्रौद्यो. मंत्रालय / M/o Science & Tech.
भारत सरकार, नई दिल्ली / Govt. of India, N. Delhi

Co-PI(s)
Dr. S. Venkatesan
Professor,
Department of Environmental Sciences,
Periyar University, Salem-636 011

(ii) *CSIR-Central Salt and Marine Chemicals Research Institute, Bhavnagar*

Principal Investigator:

Dr. Soumya Haldar
Principal Scientist
Analytical and Environmental Science & Centralized
Instrument Facility,
CSIR-Central Salt and Marine Chemicals Research Institute,
GB Marg, Room No. 2, Bhavnagar,
Gujarat – 364 002

Co-PI(s)
Dr. Pramod B. Shinde
Senior Scientist,
Department of Natural Products & Green Chemistry,
CSIR-Central Salt and Marine Chemicals Research Institute,
GB Marg, Room No. 2, Bhavnagar, Gujarat – 364 002

Dr. Anil Kumar M
Scientist,
Analytical and Environmental Science & Centralized
Instrument Facility,
CSIR-Central Salt and Marine Chemicals Research
Institute, GB Marg, Room No. 2, Bhavnagar, Gujarat -364 002

(iii) *Annamalai University, Parangipettai*

Principal Investigator:

Dr. S T Somasudaram
Professor,
Centre of Advanced Study in Marine Biology,
CAS in Marine Biology, Faculty of Marine Sciences,
Annamalai University,
Parangipettai-608 502

डा. मनोज कुमार मोदी / Dr. Manoj Kumar Modi
वैज्ञानिक 'ई' / Scientist 'E'
बायोटेक्नोलॉजी विभाग / Deptt. of Biotechnology
विज्ञान और प्रौद्यो. मंत्रालय / M/o Science & Tech.
भारत सरकार, नई दिल्ली / Govt. of India, N. Delhi

(iv) *Sathyabama Institute of Science and Technology, Chennai*

Sub-Project A

Principal Investigator:

Dr. M. Radhakrishnan
Scientist E,
Bioprospecting Division,
Centre for Drug Discovery and Development,
Sathyabama Institute of Science and Technology,
Jeppiaar Nagar,
Rajiv Gandhi Road-600 119

Co-PI(s)

Dr. Wilson Aruni
Professor & Pro Vice-Chancellor,
Sathyabama Institute of Science and Technology,
Jeppiaar Nagar,
Rajiv Gandhi Road-600 119

SUB-PROJECT – B

(v) *Goa University, Goa*

Principal Investigator:

Dr Savita Kerkar
Professor,
Department of Biotechnology,
Faculty Block E, Goa University, Taleigao plateau,
Goa - 403 206

(vi) National Centre for Polar and Ocean Research, Goa

Co-PI(s) Dr. K. P. Krishnan
Scientist - E & Officer in Charge (ACOSTI- Port Blair),
Department of Cryobiology Laboratory,
National Centre for Polar and Ocean Research,
Headland Sada, Vascoda-
Gama, Goa 403 804

डा. मनोज कुमार मोदी / Dr. Manoj Kumar Modi
वैज्ञानिक 'ई' / Scientist 'E'
बायोटेक्नोलॉजी विभाग / Deptt. of Biotechnology
विज्ञान और प्रौद्यो. मंत्रालय / M/o Science & Tech.
भारत सरकार, नई दिल्ली / Govt. of India, N. Delhi

SUB-PROJECT – C

***(vii)* Cochin University of Science and Technology, Cochin**

Principal Investigator:

Dr. Sajeevan T. P.
Assistant Professor in Marine Biotechnology,
National Centre for Aquatic Animal Health,
Cochin University of Science and Technology,
Lakeside Campus, Fine Arts Avenue, Cochin - 682 016

Co-PI(s)

Dr.Rosamma Philip
Dean, Faculty of Marine Sciences & BSR Faculty,
Department of Marine Biology, Microbiology and Biochemistry,
Cochin University of Science and Technology,
Lakeside Campus, Fine Arts Avenue, Cochin -682 016

(viii) *CSIR-Central Drug Research Institute, Lucknow*

Principal Investigator:

Dr. Narender Tadigoppula
Professor (AcSIR) and Sr. Principal Scientist
Medicinal and Process Chemistry Department,
CSIR-Central Drug Research Institute,
Jankipuram Extension, Sitapur Road, Lucknow

(ix) Pondicherry University, Pondicherry

Co-PI(s) Dr. S. Venu
Assistant Professor in Marine Biology,
Department of Ocean Studies and Marine Biology,
Pondicherry University (A Central University) Port Blair
Campus, Brookshabad, ChakkargaonP.O., PB No. 1, Port, Blair,
Andaman & Nicobar Islands -744 112

डा. मनोज कुमार मोदी / Dr. Manoj Kumar Modi
वैज्ञानिक 'ई' / Scientist 'E'
बायोटेक्नोलॉजी विभाग / Deptt. of Biotechnology
विज्ञान और प्रौद्यो. मंत्रालय / M/o Science & Tech.
भारत सरकार, नई दिल्ली / Govt. of India, N. Delhi

SUB-PROJECT – D

(x) Goa University, Goa

Principal Investigator:

Dr. Sanjeev C. Ghadi
Professor and Head of Department,
Department of Biotechnology,
Faculty Block E, Goa University, Taleigao plateau,
Goa - 403 206

Co-PI(s)

Prof. S.G. Tilve
Professor (HAG) and Vice Dean (Research),
School of Chemical Sciences, Goa University, Taleigao plateau, Goa 403 206

SUB-PROJECT – E

(xi) Indian Institute of Technology Bombay, Mumbai

Principal Investigator:

Prof. Pramod P Wangikar
Professor,
Department of Chemical Engineering,
Indian Institute of Technology Bombay, IIT Powai,
Mumbai, 400 076

Dr.Yogendra Shastri
Indian Institute of Technology Bombay, IIT Powai,
Mumbai, 400 076

SUB-PROJECT – F

(xii) Sathyabama Institute of Science and Technology, Chennai

Principal Investigator:

Dr. D. Inbakandan
Scientist - E / Associate Professor,
Centre for Ocean Research (DST-FIST Sponsored),
Sathyabama Institute of Science and Technology,
Dr. Jeppiaar Research Park,
Chennai - 600 119

डा. मनोज कुमार मोदी / Dr. Manoj Kumar Modi
वैज्ञानिक 'ई' / Scientist 'E'
बायोटेक्नोलॉजी विभाग / Deptt. of Biotechnology
विज्ञान और प्रौद्यो. मंत्रालय / M/o Science & Tech.
भारत सरकार, नई दिल्ली / Govt. of India, N. Delhi

Co-PI(s)

Dr. L. Stanley Abraham
Scientist - E / Associate Professor,
Centre for Ocean Research (DST-FIST Sponsored)
MoES - Earth Science & Technology Cell (Marine Biotechnological Studies)
Sathyabama Institute of Science and Technology,
Dr.Jeppiaar Research Park, Chennai -600 119

Technical Coordinator

Dr. G. Dharani
Scientist - F & Group Head i/c
Marine Biotechnology Division,
National Institute of Ocean Technology, Velachery - Tambaram Main Road, Pallikaranai, Chennai 600 100

Shri.N. Saravanane
Scientist – E
Centre for Marine Living Resources and Ecology
Ministry of Earth Sciences, Government of India
Block-C, 6th Floor, KendriyaBhavan, Kakkanad,
CSEZ.P.O, Kochi- 682 037

SUB-PROJECT – G

(Xiii) NCMR NCCS, Pune

PI

Dr. Yogesh S Shouche
Emeritus Scientist,
National Centre for Microbial Resource,
National Centre For Cell Science,
First floor, Central Tower, Sai Trinity Building,
Pune - 411 021

Co-PI (s)

Dr. Ajay Pillai
Scientist,
Project Management Cell
National Centre for Microbial Resource (NCMR),
National Center for Cell Science (NCCS),
Sai Trinity Complex, Sus Road, Pashan,
Pune- 411 021

डा. मनोज कुमार मोदी / Dr. Manoj Kumar Modi
वैज्ञानिक 'ई' / Scientist 'E'
बायोटेक्नोलॉजी विभाग / Deptt. of Biotechnology
विज्ञान और प्रौद्यो. मंत्रालय / M/o Science & Tech.
भारत सरकार, नई दिल्ली / Govt. of India, N. Delhi

Objectives:

SUB-PROJECT A: Exploring marine actinobacteria for anti-infective and Industrial products (Implementing institutes: Periyar University, Salem; CSIR-Central Salt and Marine Chemicals Research Institute, Bhavnagar, Gujarat; Annamalai University, Parangipettai and Sathyabama Institute of Science and Technology, Chennnai)

Specific objectives

1. Preparation of extract library from marine actinobacteria [200 from NCMR NCCS, 200 from Periyar University (Andaman strains) and 100 from Sathyabama University (Southern Ocean strains)]
2. In vitro evaluation of marine actinobacterial extracts for anti TB, antibiofilm, antimicrobial (against carbapenem resistant Gram negative bacterial pathogens) and anti virulent activity and isolation of active molecules.
3. Fermentation, isolation and characterization of anti TB, antibiofilm, antimicrobial and anti virulent compounds from potential marine actinobacterial strains
4. Isolation of antifreeze proteins (AFP) from psychrophilic actinobacteria
5. Molecular screening of psychrophilic actinobacteria for secondary metabolite biosynthetic genes and stress tolerant genes.
6. Screening and isolation of enzyme (xylanase) from marine actinobacteria
7. Characterization and taxonomy of potential marine actinobacterial strains

Institute-wise Objectives

Periyar University, Salem

1. Preparation of extract library from marine actinobacterial strains for anti-infective studies
2. Fermentation production of anti TB, anti biofilm and anti microbial and antivirulent molecules from potential marine actinobacterial& process optimization
3. Taxonomy of potential actinobacterial strains

Sathyabama Institute of Science and Technology, Chennai

1. Screening of marine actinobacteria for anti TB and anti biofilm activity against carbepenem resistant Gram negative bacterial pathogens and oral biofilm pathogens
2. Molecular screening for the distribution of secondary metabolite biosynthetic genes (SMGs) and stress tolerant genes in Southern Ocean actinobacterial strains
3. Characterization and taxonomic identification of psychrophilic and psychrotolerant actinobacteria

Annamalai University, Parangipettai

1. Screening and isolation of anti freeze proteins from psychrophilic actinobacteria

CSIR-CSMCRI, ,Bhavnagar

1. Screening and isolation of enzyme (xylanase) from marine actinobacteria

डा. मनोज कुमार मोदी / Dr. Manoj Kumar Modi
वैज्ञानिक 'ई' / Scientist 'E'
बायोटेक्नोलॉजी विभाग / Deptt. of Biotechnology
विज्ञान और प्रौद्यो. मंत्रालय / M/o Science & Tech.
भारत सरकार, नई दिल्ली / Govt. of India, N. Delhi

2. Screening of extracts from marine actinobacteria for anti infective and anti-virulent activity against WHO category 1 pathogens
3. Isolation and characterization of New Chemical Entities (NCEs) from potential actinobacterial strains against MTB, biofilm and drug resistant pathogens and anti virulent compounds

SUB-PROJECT B: Bioprospecting of Goan saltpans to identify indigenous pigment producing bacteria. (Implementing institute: Goa University, Goa and NCPOR, Goa)

Overall Objectives

1. Standardization of carotenoid pigment extraction protocols using pigmented isolates from the in-house culture collection(~1000 strains are available in Goa University and NCPOR)
2. Medium optimization to improve carotenoid production of selected isolates chosen based on pigment content and composition.
3. Genome sequencing of the best carotenoid producing bacteria

SUB-PROJECT C: Integrated genomic and metabolomic approach for the discovery of novel small molecules with anticancer activity from marine microorganisms (Implementing institute: Cochin University, Cochin and CSIR-CDRI, Lucknow)

Overall Objectives

1. Isolation, Purification, structure elucidation and chemical characterization of lead compound(s) from Marine actinomycetes
2. Elucidation of mode of anticancer activity of the lead compound(s) through cell based assays
3. Chemical transformation and Synthesis of lead compounds

SUB-PROJECT D: Bioprospecting for active biological oligosaccharides produced from marine polysaccharides by bacterial CAZymes. (Implementing institute: Goa University, Goa)

Overall Objectives

1. Identifying multiple polysaccharides degrading bacterial strains from the PI's bacterial culture collection. Presently the PI has 25 bacterial strains that have been characterized up to genus level and are known to degrade single polysaccharide. Also around 25 bacterial strains have already been identified from NCCS culture collection for determining polysaccharide activity of these strains
2. Preliminary screening for identifying promising bacterial strain that produces oligosaccharides with desired therapeutic activity. The oligosaccharides that are obtained by growing bacteria in respective polysaccharides with be evaluated for following therapeutic activities
   a. Anti-diabetic activity of oligosaccharides would be determine by using in vitro spectrophotometric assay using α-amylase and β- glucosidase for screening.
   b. Spectrophotometric anti-tyrosinase activity of oligosaccharides determined using mushroom tyrosinase.

डा. मनोज कुमार मोदी / Dr. Manoj Kumar Modi
वैज्ञानिक 'ई' / Scientist 'E'
बायोटेक्नोलॉजी विभाग / Deptt. of Biotechnology
विज्ञान और प्रौद्यो. मंत्रालय / M/o Science & Tech.
भारत सरकार, नई दिल्ली / Govt. of India, N. Delhi

c. The anti-biofilm activity of oligosaccharides will be evaluated using microtiter biofilm bioassay.
d. Antibacterial activity of the oligosaccharides will be confirmed by the disc diffusion and broth dilution method.
e. Antioxidant activities of oligosaccharides such as radical scavenging, metal chelating activities and reducing power will be evaluated by spectrophotometric assays
3. WGS of above selected bacterial strains by Illumina sequencing.
4. Cloning of selected novel CAZyme gene in pGEM/pET vectors and CAZyme expression.
5. Mass production of oligosaccharides using whole cell bacteria and immobilized purified enzyme and confirming therapeutic activity of purified oligosaccharide.
6. Purification of oligosaccharides and structure evaluation.

SUB-PROJECT E: Metabolic engineering of marine cyanobacteria for the photosynthetic production of therapeutic proteins and platform chemical (Implementing institute: IIT, Mumbai)

Overall Objectives

1. Engineering of selected marine cyanobacterial host strains (namely, Synechococcus sp. PCC 7002 and Synechococcus sp. PCC 11901) to generate robust, scalable expression systems
2. Pathway engineering for the photosynthetic production of platform chemicals such as succinic acid and therapeutic proteins such as PDGF and Streptokinase
3. 13C-Metabolic Flux Analysis (13C-MFA) of wild type and engineered strains to identify metabolic bottlenecks and competing pathways
4. Production and purification of recombinant therapeutic proteins and development of in vitro activity assays.

SUB-PROJECT F: Marine microbial product based eco-friendly nanocomposites for marine antifouling application (Implementing institute: Sathyabama Institute of Science and Technology, Chennai)

Overall Objectives:-

1. To collect, culture and extract natural products and biopolymers from marine bacteria
2. To nano syntheses and characterize the natural product based polymernanocomposites
3. To study the stability and toxicity of the polymer-nanocomposites at laboratory condition
4. To study the antifouling activity of the polymer-nanocomposites in field Condition

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विज्ञान और प्रौद्यो. मंत्रालय / M/o Science & Tech.
भारत सरकार, नई दिल्ली / Govt. of India, N. Delhi

SUB-PROJECT G

Overall Objectives

1. Supply of culture to participating institutes
2. Accepting the isolates generated in the project for the deposit

2.4 Time Schedule:

The duration of support is three years from the date of this sanction order.

2.5 Total Cost:

The total cost of the project is Rs. **63875024**/-(Rupees Six Crores Thirty Eight Lakhs Seventy Five Thousand and Twenty Four Only) as per details given below:

Institute	Year I	Year II	Year III	Total Cost(Rs.)
1. Annamalai University, Parangipettai	2700960	1210960	1162800	**5074720**
2. Central Drug Research Institute, Lucknow	1437200	1437200	1437200	**4311600**
3. Central Salt & Marine Chemicals Research Institute, Bhavnagar	3313040	1413040	1524400	**6250480**
4. Cochin University of Science and Technology, Cochin	4216160	2016160	2071840	**8304160**
5. Goa University, Goa	3454560	2454560	2621600	**8530720**
6. Indian Institute of Technology Bombay, Mumbai	6605840	2905840	3066544	**12578224**
7. National Centre For Cell Science, Pune	497600	497600	497600	**1492800**
8. National Centre For Polar And Ocean Research, Goa	641520	641520	697200	**1980240**
9. Periyar University Salem, Salem	2059920	1159920	1215600	**4435440**
10. Sathyabama Institute of Science and Technology, Chennai	4501920	3121920	3292800	**10916640**
Total (Rs.)	**29428720**	**16858720**	**17587584**	**63875024**

Institute wise details are:

Budget Head	Year I	Year II	Year III	Total(Rs.)
1. Indian Institute of Technology Bombay, Mumbai				
Equipment	3700000.00			**3700000.00**
Manpower	1755840.00	1755840.00	1916544.00	**5428224.00**
Overhead	50000.00	50000.00	50000.00	**150000.00**
Travel	50000.00	50000.00	50000.00	**150000.00**
Consumables	1000000.00	1000000.00	1000000.00	**3000000.00**
Contingency	50000.00	50000.00	50000.00	**150000.00**
Total (Rs.)	**6605840.00**	**2905840.00**	**3066544.00**	**12578224.00**

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2. Sathyabama Institute of Science and Technology, Chennai #				
Equipment	1280000.00			**1280000.00**
Manpower	1621920.00	1621920.00	1792800.00	**5036640.00**
Overhead	100000.00	100000.00	100000.00	**300000.00**
Travel	100000.00	100000.00	100000.00	**300000.00**
Consumables	1300000.00	1200000.00	1200000.00	**3700000.00**
Contingency	100000.00	100000.00	100000.00	**300000.00**
Total (Rs.)	**4501920.00**	**3121920.00**	**3292800.00**	**10916640.00**
3. Goa University, Goa*				
Equipment	1000000.00			**1000000.00**
Manpower	1294560.00	1294560.00	1461600.00	**4050720.00**
Overhead	100000.00	100000.00	100000.00	**300000.00**
Travel	60000.00	60000.00	60000.00	**180000.00**
Consumables	900000.00	900000.00	900000.00	**2700000.00**
Contingency	100000.00	100000.00	100000.00	**300000.00**
Total (Rs.)	**3454560.00**	**2454560.00**	**2621600.00**	**8530720.00**
4. Cochin University of Science and Technology, Cochin				
Equipment	2200000.00			**2200000.00**
Manpower	1016160.00	1016160.00	1071840.00	**3104160.00**
Overhead	50000.00	50000.00	50000.00	**150000.00**
Travel	50000.00	50000.00	50000.00	**150000.00**
Consumables	600000.00	600000.00	600000.00	**1800000.00**
Contingency	300000.00	300000.00	300000.00	**900000.00**
Total (Rs.)	**4216160.00**	**2016160.00**	**2071840.00**	**8304160.00**
5. Central Salt & Marine Chemicals Research Institute, Bhavnagar				
Equipment	1900000.00			**1900000.00**
Manpower	863040.00	863040.00	974400.00	**2700480.00**
Overhead	50000.00	50000.00	50000.00	**150000.00**
Travel	50000.00	50000.00	50000.00	**150000.00**
Consumables	400000.00	400000.00	400000.00	**1200000.00**
Contingency	50000.00	50000.00	50000.00	**150000.00**
Total (Rs.)	**3313040.00**	**1413040.00**	**1524400.00**	**6250480.00**

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6. Annamalai University, Parangipettai				
Equipment	1490000.00			**1490000.00**
Manpower	660960.00	660960.00	712800.00	**2034720.00**
Overhead	50000.00	50000.00	50000.00	**150000.00**
Travel	50000.00	50000.00	50000.00	**150000.00**
Consumables	400000.00	400000.00	300000.00	**1100000.00**
Contingency	50000.00	50000.00	50000.00	**150000.00**
Total (Rs.)	**2700960.00**	**1210960.00**	**1162800.00**	**5074720.00**
7. Periyar University, Salem				
Equipment	800000.00			**800000.00**
Manpower	709920.00	709920.00	765600.00	**2185440.00**
Overhead	50000.00	50000.00	50000.00	**150000.00**
Travel	50000.00	50000.00	50000.00	**150000.00**
Consumables	400000.00	300000.00	300000.00	**1000000.00**
Contingency	50000.00	50000.00	50000.00	**150000.00**
Total (Rs.)	**2059920.00**	**1159920.00**	**1215600.00**	**4435440.00**
8. Central Drug Research Institute, Luknow				
Manpower	487200.00	487200.00	487200.00	**1461600.00**
Overhead	50000.00	50000.00	50000.00	**150000.00**
Travel	50000.00	50000.00	50000.00	**150000.00**
Consumables	800000.00	800000.00	800000.00	**2400000.00**
Contingency	50000.00	50000.00	50000.00	**150000.00**
Total (Rs.)	**1437200.00**	**1437200.00**	**1437200.00**	**4311600.00**
9. National Centre for Polar and Ocean Research, Goa				
Manpower	431520.00	431520.00	487200.00	**1350240.00**
Overhead	50000.00	50000.00	50000.00	**150000.00**
Travel	10000.00	10000.00	10000.00	**30000.00**
Consumables	100000.00	100000.00	100000.00	**300000.00**
Contingency	50000.00	50000.00	50000.00	**150000.00**
Total (Rs.)	**641520.00**	**641520.00**	**697200.00**	**1980240.00**
10. National Centre For Cell Science, Pune				
Manpower	297600.00	297600.00	297600.00	**892800.00**
Travel	50000.00	50000.00	50000.00	**150000.00**
Consumables	100000.00	100000.00	100000.00	**300000.00**
Contingency	50000.00	50000.00	50000.00	**150000.00**
Total (Rs.)	**497600.00**	**497600.00**	**497600.00**	**1492800.00**

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विज्ञान और प्रौद्यो. मंत्रालय / M/o Science & Tech.
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*** The Details of Budget to Goa University are as follows:-**

SUB-PROJECT – B

Principal Investigator: Dr Savita Kerkar, Professor, Department of Biotechnology, Faculty Block E, Goa University, Taleigao plateau, Goa - 403 206

					Amount in Rupees
Goa University, Goa					
Sr. No.	**Budget Head**	**Year I**	**Year II**	**Year III**	**Total**
Recurring					
1.	Manpower	4,31,520	4,31,520	4,87,200	13,50,240
2.	Consumables	1,00,000	1,00,000	1,00,000	3,00,000
3.	Travel	10,000	10,000	10,000	30,000
4.	Contingency	50,000	50,000	50,000	1,50,000
5.	Overhead	50,000	50,000	50,000	1,50,000
	Grand Total	**6.4152**	**6.4152**	**6.972**	**19.8024**

SUB-PROJECT – D

Dr. Sanjeev C. Ghadi, Professor and Head of Department, Department of Biotechnology, Faculty Block E, Goa University, Taleigao plateau, Goa - 403 206

					Amount in Rupees
Sr. No.	**Budget Head**	**Year I**	**Year II**	**Year III**	**Total**
Non-recurring					
1.	Equipments	10,00,000			10,00,000
Recurring					
2.	Manpower	8,63,040	8,63,040	9,74,400	27,00,480
3.	Consumables	8,00,000	8,00,000	8,00,000	24,00,000
4.	Travel	50,000	50,000	50,000	1,50,000
5.	Contingency	50,000	50,000	50,000	1,50,000
6.	Overhead	50,000	50,000	50,000	1,50,000
	Grand Total	**28,13,040**	**18,13,040**	**19,24,400**	**65,50,480**

The Details of budget to Sathyabama Institute Of Science And Technology, Chennai are as follows:-

Sub Project A

Principal Investigator:

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वैज्ञानिक 'ई' / Scientist 'E'
बायोटेक्नोलॉजी विभाग / Deptt. of Biotechnology
विज्ञान और प्रौद्यो. मंत्रालय / M/o Science & Tech.
भारत सरकार, नई दिल्ली / Govt. of India, N. Delhi

Dr. M. Radhakrishnan, Scientist E, Bioprospecting Division, Centre for Drug Discovery and Development, Sathyabama Institute of Science and Technology, Jeppiaar Nagar,Rajiv Gandhi Road, Chennai -600 119

					Rupees in lakhs
Sathyabama Institute of Science and Technology, Chennai					
Sr. No.	**Budget Head**	**Year I**	**Year II**	**Year III**	**Total**
Non-recurring					
1.	Equipments	7,80,000			7,80,000
Recurring					
2.	Manpower	7,58,880	7,58,880	8,18,400	23,36,160
3.	Consumables	5,00,000	4,00,000	4,00,000	13,00,000
4.	Travel	50,000	50,000	50,000	1,50,000
5.	Contingency	50,000	50,000	50,000	1,50,000
6.	Overhead	50,000	50,000	50,000	1,50,000
	Grand Total	**21,88,880**	**13,08,880**	**13,68,400**	**48,66,160**

Sub Project F

Dr. D. Inbakandan, Scientist – E, Associate Professor, Centre for Ocean Research (DST-FIST Sponsored), Sathyabama Institute of Science and Technology, Dr. Jeppiaar Research Park, Chennai, Tamil Nadu - 600 119

					Rupees in lakhs
Sathyabama Institute Of Science And Technology, Chennai					
Sr. No.	**Budget Head**	**Year I**	**Year II**	**Year III**	**Total**
Non-recurring					
1.	Equipments	5,00,000			5,00,000
Recurring					
2.	Manpower	8,63,040	8,63,040	9,74,400	27,00,480
3.	Consumables	8,00,000	8,00,000	8,00,000	24,00,000
4.	Travel	50,000	50,000	50,000	1,50,000
5.	Contingency	50,000	50,000	50,000	1,50,000
6.	Overhead	50,000	50,000	50,000	1,50,000
	Grand Total	**23,13,040**	**18,13,040**	**19,24,400**	**60,50,480**

2.7 Equipments:

The details of the equipment sanctioned for the implementation of the project at **Annexure-I**

2.8 Manpower:

The details of the manpower sanctioned for the implementation of the project at **Annexure-II**:

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विज्ञान और प्रौद्यो. मंत्रालय / M/o Science & Tech.
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2.9 The quarterly deliverables of the project sanctioned for the implementation of the project at **Annexure-II (A)**:

3. Head of Account:

The **Non-Recurring** expenditure involved is debitable to:

Demand No. 89	**Department of Biotechnology**
3425	Other Scientific Research 2021-2022
3425.60	Others (Sub Major Head)
3425.60.200	Assistance to other Scientific Bodies (Minor Head)
3425.60.200.29	Biotechnology Research and Development
3425.60.200.29.17	Assistance to Research and Development
3425.60.200.29.17.35	Grants for creation of capital assets

The **Recurring** expenditure involved is debitable to:

Demand No. 89	**Department of Biotechnology**
3425	Other Scientific Research 2021-2022
3425.60	Others (Sub Major Head)
3425.60.200	Assistance to other Scientific Bodies (Minor Head)
3425.60.200.29	Biotechnology Research and Development
3425.60.200.29.17	Assistance to Research and Development
3425.60.200.29.17.31	Grants -in-Aid General

4. Terms & Conditions:

- The Institute/Agency will keep the whole of the grant in a Bank Account earning interest, and the interest so earned should be reported to DBT in the Utilization Certificate and Statement of Expenditure. As per the provision contained in GFR Rule 230(8), all interests/other earning occurred against Grants-in-aid shall be mandatory remitted to the Consolidated fund of India through the online portal www.bharatkosh.gov.in only.
- In case the whole or a part of the amount of the grant in aid is being refunded, an interest at the rate of ten per cent per annum thereon shall be recovered. Utilization certificate due for rendition has been received and accepted. The Non-Recurring grant shall be utilized within 18 months of release.

4.1 The other terms and conditions governing this sanction are attached at Annexure- III.

4.2A Memorandum of Agreement (MoA) will be signed between the Department of Biotechnology and the grantee institution on Non-Judicial stamp paper Rs. 100/- in the enclosed format and the second release/installment will be made only after signing of MoA between the grantee institutions and DBT. In case of NGO's and Private Institution's, execution of MOA is mandatory before first release. A format of the MoA is enclosed in

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Annexure-IV

5. No International Travel will be undertaken from the sanctioned project grant unless specified otherwise.

6. The Director, Central Drug Research Institute, Lucknow; The Director, Central Salt & Marine Chemicals Research Institute, Bhavnagar; The Director, National Centre For Cell Science, Pune; Director, National Centre for Polar and Ocean Research, Goa and The Registrar, Indian Institute of Technology Bombay, Mumbai, and The Registrar, Annamalai University, Parangipettai; The Registrar, Cochin University of Science and Technology, Cochin; The Registrar, Goa University, Goa, The Registrar, Periyar University Salem, Salem and The Chancellor, Sathyabama Institute of Science and Technology, Chennai would be responsible for submission of Statements of Expenditure (SoE), utilization certificates (UC), Assets Certificates, Manpower staffing & expenditure details in prescribed DBT formats to DBT in respect of grants released in this project from time to time.

7. PI's of DBT sponsored projects can consider appointment of JRF from Category-II merit list of DBT-BET exam so that candidates can be paid fellowships at par with NET/GATE/BET qualified candidates as per DST OM No. A.SR/S9/Z-05/2019 dated 30 Jan 2019. However, there is no compulsion on PI's to select candidates for JRF in their projects from Category-II of DBT-BET.

8. As per Rule 236 (1) of GFR 2017, the accounts of all Grantee Institutions or Organizations shall be open to inspection by the sanctioning authority and audit, both by the Comptroller and Auditor General of India under the provision of CAG (DPC) Act 1971 and internal audit by the Principal Accounts Office of the Ministry or Department, whenever the Institution or Organizations is called upon to do so.

9. If the Research Project involves biological resources, the obligations under the Biological Diversity Act 2002 as applicable shall be complied with by the Project Investigator, the details of such obligations can be accessed at www.nbaindia.org.

10. The retention of the equipments purchased out of the project grant after completion of the project is not allowed in case of the private institutes/organizations/NGOs as per the extant Govt. instructions. Hence, such implementing Agencies in the project will abide by the instructions issued by Govt./Department in the matter from time to time.

11. Further release will be made only after appraisal and approval of the scheme by the MoF for continuation during 15th FC.

12. Import of the equipments, consumables etc. through Global Tender Enquiry (GTE) will the subject to the compliance of instructions:-

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भारत सरकार, नई दिल्ली / Govt. of India, N. Delhi

12.1 The PIs/Implementing Agencies shall strictly adhere to the GoI instructions issued vide OM No.F.4.1.2021-PPD dated 30.6.2021 in the matter of issue of Global tender Enquiry with special reference to instructions contained under para 4 of the said OM for procurement of equipments, spares and consumables for research purposes and shall not issue Global Tenders Enquiries before seeking the approval of the competent authority.

12.2 After incurring the expenditure on import of such items and at the time of submission of UCs to the department next year, the PIs will also furnish the copy of the approval sought from the competent authority for issue of the GTE for such items of import. The release of next installment of grant will be the subject to the fulfillment of the above condition.

13. This issues, under the power delegated to this Department and with the concurrence of IFD vide their SAN No **102/IFD/SAN/1287/2021-2022** dated **September, 28 2021.**

14. This sanction order has been noted at serial no. 55 in the Register of Grants.

(Dr. Manoj Kumar Modi)
Scientist 'E'

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वैज्ञानिक 'ई'/Scientist 'E'
बायोटेक्नोलॉजी विभाग/Deptt. of Biotechnology
विज्ञान और प्रौद्यो. मंत्रालय/M/o Science & Tech.
भारत सरकार, नई दिल्ली/Govt. of India, N. Delhi

To,
The Pay & Accounts Officer,
Department of Biotechnology,
New Delhi – 110 003.

Copy to:

1. The Principal Director of Audit (Scientific Departments), DACR Building, New Delhi- 110 002.
2. **Dr. Yogesh S Shouche**, Project Co-ordinator & Principal Investigator, Emeritus Scientist, National Centre for Microbial Resource, National Centre For Cell Science, First floor, Central Tower, Sai Trinity Building, Pune, Maharashtra 411 021
3. **The Director,** Central Drug Research Institute, Lucknow
4. **The Director,** Central Salt & Marine Chemicals Research Institute, Baroda, Gujarat
5. **The Director,** National Centre for Cell Science, Pune
6. **The Director,** National Centre for Polar and Ocean Research, Goa
7. **The Registrar,** Indian Institute of Technology Bombay, Mumbai
8. **The Registrar,** Annamalai University, Cuddalore
9. **The Registrar,** Cochin University of Science and Technology, Cochin
10. **The Registrar,** Goa University, Goa
11. **The Registrar,** Periyar University Salem, Salem
12. **The Chancellor,** Sathyabama Institute of Science and Technology, Chennai
13. **Dr. R. Balagurunathan,** Professor & Head, Department of Micorbiology, School of Bioscience, Periyar University, Salem - 636 011

14. **Dr. Soumya Haldar,** Analytical and Environmental Science & Centralized Instrument Facility, CSIR-Central Salt and Marine Chemicals Research Institute, GB Marg, Room No. 2, Bhavnagar, Gujarat – 364 002
15. **Dr. S T Somasudaram,** Professor,Centre of Advanced Study in Marine Biology, CAS in Marine Biology, Faculty of Marine Sciences, Annamalai University, Parangipettai-608 502
16. **Dr. M. Radhakrishnan,** Scientist E, Bioprospecting Division, Centre for Drug Discovery and Development, Sathyabama Institute of Science and Technology, Jeppiaar Nagar, Rajiv Gandhi Road-600 119
17. **Dr. Wilson Aruni,** Professor & Pro Vice-Chancellor, Sathyabama Institute of Science and Technology, Jeppiaar Nagar, Rajiv Gandhi Road-600119
18. **Dr Savita Kerkar,** Professor, Department of Biotechnology, Faculty Block E, Goa University, Taleigao plateau,Goa - 403 206
19. **Dr. K. P. Krishnan,** Scientist - E & Officer in Charge (ACOSTI- Port Blair), Department of Cryobiology Laboratory, National Centre for Polar and Ocean Research, Headland Sada, Vascoda- Gama, Goa 403 804
20. **Dr. Sajeevan T. P.,** Assistant Professor in Marine Biotechnology, National Centre for Aquatic Animal Health, Cochin University of Science and Technology, Lakeside Campus, Fine Arts Avenue, Cochin - 682 016
21. **Dr. NarenderTadigoppula,** Professor (AcSIR) and Sr. Principal Scientist, Medicinal and Process Chemistry Department, CSIR-Central Drug Research Institute, Jankipuram Extension, Sitapur Road, Lucknow
22. **Dr. Sanjeev C. Ghadi,** Professor and Head of Department, Department of Biotechnology, Faculty Block E, Goa University, Taleigao plateau, Goa - 403 206
23. **Prof. Pramod P Wangikar,** Professor, Department of Chemical Engineering, Indian Institute of Technology Bombay, IIT Powai, Mumbai, 400 076
24. **Dr. D. Inbakandan,** Scientist - E / Associate Professor, Centre for Ocean Research (DST-FIST Sponsored),Sathyabama Institute of Science and Technology, Dr. Jeppiaar Research Park, Chennai, Tamil Nadu, 600 119

(Dr. Manoj Kumar Modi)
Scientist 'E'

डा. मनोज कुमार मोदी/Dr. Manoj Kumar Modi
वैज्ञानिक 'ई'/Scientist 'E'
बायोटेक्नोलॉजी विभाग/Deptt. of Biotechnology
विज्ञान और प्रौद्यो. मंत्रालय/M/o Science & Tech.
भारत सरकार, नई दिल्ली/Govt. of India, N. Delhi

FILE NO. TAR/2019/000247

SCIENCE & ENGINEERING RESEARCH BOARD(SERB)

(A statutory body of the Department of Science & Technology, government of India)

5 & 5A, Lower Ground Floor
Vasant Square Mall
Plot No. A, Community Centre
Sector-B, Pocket-5, Vasant Kunj
New Delhi-110070

Dated: 13-Mar-2020

ORDER

Subject: Financial Sanction under Teachers Associateship for Research Excellence (TARE) to **Dr. Stalin Dhas T, Sathyabama Institute Of Science And Technology , Sathyabama University, Jeppiar Nagar, Rajiv Gandhi Road, Chennai, Chennai, Tamil Nadu-600119**- under the mentorship of **N. Sujatha**, at **Indian Institute of Technology Chennai I.I.T. Post Office Chennai - 600036**- Release of 1st grant.

Sanction of **Science and Engineering Research Board (SERB)** is hereby accorded to the above mentioned grant at a total cost of **Rs. 18,30,000/- (Rs.** Eighteen Lakh Thirty Thousand **Only)** for a duration of 36 months.
The date of start of the project will be 28 February, 2020 .The items of expenditure for which the total allocation of **Rs. 18,30,000/-** has been approved are given below:
The following budget is proposed for

Sathyabama Institute Of Science And Technology , Sathyabama University, Jeppiar Nagar, Rajiv Gandhi Road, Chennai, Chennai, Tamil Nadu-600119 (Parent)

Sl. No.	Budget Head	Amount
1.	Fellowship	Rs. 0 (@0/- per month (consolidated))
2.	Research Grant	Rs. 2,50,000/- per annum
3.	Overheads	Rs. 25,000/- per annum

Indian Institute of Technology Chennai I.I.T. Post Office Chennai - 600036 (Host)

Sl. No.	Budget Head	Amount
1.	Fellowship	Rs. 60,000 (on completion of 90 days mandatory attendance in the host institute every year)
2.	Research Grant	Rs. 2,50,000/- per annum
3.	Overheads	Rs. 25,000/- per annum

2. Sanction of the **SERB** is also accorded to the payment of **Rs. 2,75,000/-** (Rupees Two Lakh Seventy Five Thousand only) to **Sathyabama Institute Of Science And Technology, Sathyabama University, Jeppiar Nagar, Rajiv Gandhi Road, Chennai , Rs. 3,35,000/-** (Rupees Three Lakh Thirty Five Thousand only) to **Indian Institute of Technology Chennai I.I.T. Post Office Chennai - 600036** being the first installment of the grant for the year 2019-2020 for implementation of the said research project.

3. The expenditure involved is debitable to

Fund for Science & Engineering Research (FSER)

This release is being made under Teachers Associateship For Research Excellence (TARE). (Health Sciences)

4. The Sanction has been issued to with the approval of the competent authority vide Diary No. **SERB/F/10877/2019-2020** dated **11 March, 2020**

5. Sanction of the grant is subject to the conditions as detailed in Terms & Conditions available at website (www.serb.gov.in).

6. Overhead expenses are meant for the host Institute towards the cost for providing infrastructural facilities and general administrative support etc. including benefits to the staff employed in the project.

7. As per rule 211 of GFR, the accounts of project shall be open to inspection by sanctioning authority/audit whenever the institute is called upon to do so.

8. The release amount of **Rs. 2,75,000/-** (Rupees Two Lakh Seventy Five Thousand only) will be drawn by the Under Secretary of the SERB and will be disbursed by means of RTGS transaction as per their Bank details given below:

Sathyabama Institute of Science and Technology , Sathyabama university, jeppiar nagar, rajiv gandhi road, chennai, Chennai, Tamil nadu-600119 (Parent Institute) :

PFMS Unique Code	**SU**
Account Name	**Sathyabama Institute of Science and Technology - Research**
Account Number	**6089858032**
Bank Name & Branch	**Indian bank Sathyabama Institute of Science and Technology, Jeppiaar Nagar, Chennai - 600 119, Tamilnadu**
IFSC/RTGS Code	**IDIB000S201**
Email address of PI	**stalin8733@gmail.com**
Email id of A/C Holder	**registrar@sathyabama.ac.in**
Email address of concerned officer	**ms_tare@serbonline.in**

The release amount of **Rs. 3,35,000/-** (Rupees Three Lakh Thirty Five Thousand only) will be drawn by the Under Secretary of the SERB and will be disbursed by means of RTGS transaction as per their Bank details given below:

Indian Institute of Technology Chennai I.I.T. Post Office Chennai - 600036 (Host Institute) :

PFMS Unique Code	**IITM**
Account Name	**The Registrar, Indian Institute of Technology - Madras**
Account Number	**2722101016150**
Bank Name & Branch	**CANARA BANK Canara Bank, IIT-Madras Branch, IIT-M Campus Post Office, Sardar Patel Road, Guindy, Chennai 600036**
IFSC/RTGS Code	**CNRB0002722**
Email address of PI	**stalin8733@gmail.com**
Email id of A/C Holder	**deanicsr@iitm.ac.in**
Email address of concerned officer	**ms_tare@serbonline.in**

9.Both the institutes will furnish Utilization certificate(UCs) financial year wise to the SERB and an audited statement of accounts pertaining to the grant immediately after the end of each financial year.

10. The institute will maintain separate audited accounts for the fellowship. A part or whole of the grant must be kept in an interest earning bank account which is to be reported to SERB. The interest thus earned will be treated as credit to the institute to be adjusted towards further installment of the grant.

11. The File no. **TAR/2019/000247** may also be mentioned in all research communications arising from the above project with due acknowledgement of **SERB**.

12. As this is the first grant for the fellowship, no previous U/C is required.

13. The institute may refund any unspent balance to SERB by means of a Demand Draft favoring **"FUND FOR SCIENCE AND ENGINEERING RESEARCH"** payable at New Delhi.

14. The organization/institute/university should ensure that the technical support/financial assistance provided to them by the Science & Engineering Research Board, a statutory body of the Department of Science & Technology (DST), Government of India should invariably be highlighted/ acknowledged in their media releases as well as in bold letters in the opening paragraphs of their Annual Report.

15. In addition, the investigator/host institute must also acknowledge the support provided to them in all publications, patents and any other output emanating out of the project/program funded by the Science & Engineering Research Board, a statutory body of Department of Science & Technology (DST), Government of India.

(Dr. T Thangaradjou)
Scientist E
ms_tare@serbonline.in

To,
Under Secretary
SERB, New Delhi
Copy forwarded for information and necessary action to: -

1.	The Principal Director of Audit, A.G.C.R.Building, IIIrd Floor I.P. Estate, Delhi-110002
2.	Sanction Folder, SERB , New Delhi.
3.	File Copy
4.	**(i) Dr. Stalin Dhas T** **Centre for Ocean Research** **Sathyabama Institute of Science and Technology , Sathyabama university, jeppiar nagar, rajiv gandhi road, chennai, Chennai, Tamil nadu-600119** **Email: stalin8733@gmail.com** **Mobile: 918144504346** **(ii) N. Sujatha** **Indian Institute of Technology Chennai I.I.T. Post Office Chennai - 600036** (Start date of the project may be intimated by name to the undersigned. For guidance, terms & Conditions etc. Please visit www.serb.gov.in.)
5.	**(i) Registrar,** **Sathyabama Institute Of Science And Technology, Sathyabama University, Jeppiar Nagar, Rajiv Gandhi Road, Chennai** **(ii)The Registrar** **Indian Institute of Technology Chennai I.I.T. Post Office Chennai - 600036** (Receipt of Grant may be intimated by name to the undersigned)

(Dr. T Thangaradjou)
Scientist E
ms_tare@serbonline.in

Gmail **Dr. Stalin Dhas <stalin8733@gmail.com>**

SERB-Notification

SERB_Administrator@serbonline.in <SERB_Administrator@serbonline.in> Tue, Feb 21, 2023 at 12:54 PM

To: serbinfo1@gmail.com

Science and Engineering Research Board

(Statutory Body Established Through an Act of Parliament : SERB Act 2008)
Department of Science and Technology, Government of India

SCIENCE & ENGINEERING RESEARCH BOARD (SERB)

(Statutory Body Established Through an Act of Parliament : SERB Act 2008)

Science and Engineering Research Board
3rd & 4th Floor, Block II
Technology Bhavan, New Mehrauli Road
New Delhi - 110016

File Number: TAR/2019/000247

Dated: 21-Feb-2023

Subject: Project titled "Improving in-vivo reliability of reabsorbable magnesium implant materials using biopolymer and graphene oxide nanosheets".

Dear Dr. Stalin Dhas T,

This is with reference to your extension request dated 22-09-2022. In this connection we may invite your kind attention to the following:

Your extension request has been considered and six months no cost extension w.e.f. 28-02-2023 to 27-08-2023 without any additional budget has been approved.

Yours sincerely,

(Dr. Shilpi Paul)

Scientist F

Ph:

Email: ms_ps@serbonline.in

Dr. Stalin Dhas T

Centre For Ocean Research

Sathyabama Institute of Science and Technology , Sathyabama university, jeppiar nagar, rajiv gandhi road, chennai, Chennai, Tamil nadu-600119

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Please do not reply to this mail !!

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Government of India
Department of Atomic Energy (DAE)
Board of Research in Nuclear Sciences (BRNS)

Dr Ajay Kumar
Programme Officer (HLC)

BRNS
Secretariat,316-C,CFB,
BARC, Trombay,
Mumbai-400085
Phone:+91-02225595399
Email: ajaykls@barc.gov.in

No: 54/14/04/2022-BRNS/ 10918

Date: 28/11/2022

- 6 DEC 2022

OFFICE MEMORANDUM

Sub: **R/P entitled "Development of C60-fullerene-PDMS based catheter endowed with reduced inflammation & infection" under Dr. Karthick Velu, Sathyabama Institute of Science and Technology, Jeppiaar Nagar, Rajiv Gandhi Sal, Prof. Sudhakar Panda, Director, NISER, Jatni, Khordha-752050, Odisha bearing sanction 54/14/04/2022-BRNS/ with HLC, BRNS.**

On the recommendations of the Board of Research in Nuclear Sciences (BRNS), I am pleased to convey the administrative approval and sanction of the President of India for the captioned project for 3 years beginning from financial year **2022-2023** with a total grant of **Rs. 19,37,100/- (Rupees nineteen lakh thirty seven thousand one hundred only)** for the project as under :

Item of expenditure	Year 1 (2022-2023)	Year 2 (2023-2024)	Year 3 (2024-2025)
Staff Salary - JRF	372000	372000	0
Staff Salary - SRF (1)	0	0	420000
Consumables	150000	150000	150000
Travel - PI	20000	0	20000
Contingencies	10000	15000	10000
Overheads	40650	39150	44250
Total(INR)	**592650**	**576150**	**644250**

Note: *
JRF salary calculated @31,000/- p.m. for first two years and on re designation by committee on in third year as SRF @ 35,000/- p.m.
Overheads calculated @ 7.5% of the other heads except contingency.
The remaining 7.5% towards overheads **(Rs. 1,24,050/-)** shall be released only on meeting the requirements specified (See Annex-B).

2. I am also pleased to convey the sanction of the President of India to incur an expenditure of **Rs. 5,92,650/- (Rupees five lakh ninety two thousand six hundred fifty only)** towards grant for the year 2022-2023 .
3. The expenditure involved is debitable to: **03 3401 00 004 27 0231.**
4. This is issued with the concurrence of the competent authority in the Department.

28/11/2022
Dr Ajay Kumar

Pay & Accounts Officer, DAE, Mumbai - 400 001.
(Bill enclosed)

Ravi
- 6 DEC 2022

O/C
28/11/2022

बिल सं Bill No: 35054 तिथि 28/11/2022

Countersigned for Rs. 5,92,650/- five lakh ninety two thousand six hundred fifty Rupees Only.

अनुमोदन

Approved

29/11/2022

कार्यक्रम अधिकारी

Programme Officer HLC

परमाणु ऊर्जा विभाग

DEPARTMENT OF ATOMIC ENERGY

नाभिकीय विज्ञान अनुसंधान मंडल

BOARD OF RESEARCH IN NUCLEAR SCIENCES

Application Number:6943

कृपया निम्नलिखित को सूचित करते हुए
राशी का भुगतान इन्हे करें।

Please pay the amount to

A/C No: 6089858032, A/C Name: Sathyabama Institute of Science and Technology - Research, IFSC: IDIB000S201, INDIAN BANK SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY, JEPPIAAR NAGAR, RAJIV GANDJI SALAI, CHENNAI - 600119

Under intimation to

Dr. Karthick Velu, Sathyabama Institute of Science and Technology, Jeppiaar Nagar, Rajiv Gandhi Sal

mail id:vkathick.cor@sathyabama.ac.in, Mob.No.9952420256

द्योतन एवं लेखन अधिकारी, प.ऊ.वि,

Pay & Accounts Officer, DAE

Copy forwarded to:

1. Director of Audit, Scientific Department, AEAP, OYC, CSM Marg, Mumbai-400 001.
2. Joint Secretary (R&D), DAE, Anushakti Bhavan, CSM Marg, Mumbai-400 001.
3. Director, Prof. Sudhakar Panda, Director, NISER, Jatni, Khordha-752050, Odisha.
4. Principal Investigator(PI): Dr. Karthick Velu, Sathyabama Institute of Science and Technology, Jeppiaar Nagar, Rajiv Gandhi Sal, Prof. Sudhakar Panda, Director, NISER, Jatni, Khordha-752050, Odisha.
   mail id:vkathick.cor@sathyabama.ac.in, Mob.No.9952420256

A. First year grant is being released in full along with this Sanction Letter through Pay & Accounts Officer, Department of Atomic Energy, Anushakti Bhavan, CSM Marg, Mumbai-400 001 directly. You may await a Money transfer (MT) through ECS and The amount would be credited electronically to A/C No: 6089858032, A/C Name: Sathyabama Institute of Science and Technology - Research, IFSC: IDIB000S201, INDIAN BANK SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY, JEPPIAAR NAGAR, RAJIV GANDJI SALAI, CHENNAI - 600119.

i) Acceptance of this sanction and the MT for the amount sanctioned for the first financial year may please be acknowledged (Form-I).

ii) A sticker of the BRNS LOGO (Copy Enclosed) should be pasted on all the items procured under the project.

(iii) THIS SANCTION IS FURTHER SUBJECT TO THE CONDITIONS STIPULATED IN ANNEX (ENCLOSED), WHICH MAY BE GONE THROUGH CAREFULLY.

B. Second year Sanction Letter will be issued automatically in the month of April/May of the 2nd financial year, however, the grant will be released (unspent balance of previous year and Interest earned will be adjusted) after the PI submits the following documents to the Programme Officer HLC:

a) Claim in Form-II quoting the reference of the sanction issued for the first year.

b) Utilisation Certificate (UC) as on 31st March of the preceding financial year in Form-III duly audited by the Internal Auditor of the University/ Institution or a Chartered Accountant.

c) Statement of Accounts (SA) as on 31st March of the preceding financial year should be updated on the website. Interest earned in previous year should be reflected in the Statement of Accounts. A printout of the same should be sent to BRNS after it is duly audited by the Internal Auditor of the University/ Institution or a Chartered Accountant.

d) Copy of appointment order and joining report of the staff appointed for the project along with minutes of the Selection Committee, alongwith HRA CLAIM (if applicable), should be uploaded in a single pdf file under the file head "Staff Appointment Details". In addition, the details of the appointed staff should also be updated in the available menu.

e) The inventory of equipment also should be updated in the menu, besides uploading the purchase order of the items costing more than 1 Lakh.

f) A One Page report on the progress of work during first year.

C. Third and subsequent years (if any) the Sanction Letter and the grant will be released on fulfillment of the following requirements:

i) Renewal/ Extension Application: Principal Investigator (PI) is required to upload by January 15 a pdf copy of duly signed renewal/ extension application in the prescribed form-(PRA) after logging into his/her account at https://brns.res.in. All applications received shall be examined by experts from the field and PIs may be invited to a Technical Programme Discussion Meeting (TPDM). Renewal of the project will be based on the recommendations of the TPDM, Advisory Committee and the Board.

ii) Sanction Letter: If the progress is found to be satisfactory the renewal sanction for the year will be issued in the beginning of that financial year in April/May.

iii) Claim: On receipt of the renewal sanction, the PI shall claim the funds sanctioned by submitting the following documents to Programme Officer HLC, 316-C, Common Facility Building, BARC, Trombay, Mumbai-400085:

a) Claim in Form-II quoting reference of the renewal sanction.

b) Utilisation Certificate (UC) as on 31st March of the preceding financial year in Form-III duly audited by the Internal Auditor of the University/ Institution or a Chartered Accountant. should be reflected in the Statement of Accounts.

c) Statement of Accounts (SA) as on 31st March of the preceding financial year including the amount of Interest earned in previous year and duly audited by the Internal Auditor of the University/ Institution or a Chartered Accountant.

d) Copy of appointment order and joining report of the staff appointed for the project along with minutes of the Selection Committee.

e) An inventory of equipment and the copy of Purchase order of equipments costing more than 1 Lakh.

D. At the end of Terminal Year the Settlement Grant and the Balance 7.5% Overheads will be released on fulfillment of the following requirements:

a) Claim Form-II if any,

b) The final Consolidated Statement of Accounts (SA) and Consolidated Utilization Certificate duly audited by an external Chartered Accountant or the Statutory (Govt.) Auditor. It is mandatory to include the amount of bank interest earned on the grant released into the SA.

c) Final Consolidated Progress Report and a brief report as per format given in Form-VII .

5. AAO (Cheque), DAE, Anushakti Bhavan, CSM Marg, Mumbai - 400 001 – With a request that the amount granted for the first year of the project may be released.
6. Member Secretary (HLC) : Dr. Amit Kumar, amitk@barc.gov.in; Ph:+91-02225590418 / 2559 5978
7. Co-Investigator (CI) : Dr. Parameswaran Vijayakumar, Sathyabama Institute of Science and Technology, Jeppiaar Nagar, Rajiv Gandhi Salai Chennai 600119, Email : paramesh.cor@sathyabama.ac.in, Mobile :7708838628
8. Project Collaborator (PC): Dr. Haraprlya Mohapatra, Associate Professor School of Biological Sciences National Institute of Science Education and Research Bhubaneswar Odisha 752050, Email : hm@niser.ac.in, Mobile :6742494225
9. Member Secretary (HLC) : Dr. Amit Kumar, amitk@barc.gov.in; Ph:+91-~~02225590418~~ 022-2559 5978

You or your nominee may please be the DAE representative for selection of Research Fellow/ Research Associate for the project.

27/11/2022

Dr Ajay Kumar

Note:

1. Please quote the Sanction Number 54/14/04/2022-BRNS/ in all your correspondence with BRNS

25/11/2022

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journal homepage: www.elsevier.com/locate/jddst

Green nanotechnology approaches using *Mesobacillus jeotgali* ADCG SIST 4 strain synthesized gold nanoparticles for anticancer studies

C.G Anjali Das [a], V. Ganesh Kumar [a,b,*], Jyoti Kode [c,d]

[a] Centre for Ocean Research & Earth Science and Technology Cell, Sathyabama Institute of Science and Technology, Chennai, 600119, Tamil Nadu, India
[b] Department of Chemistry, Sathyabama Institute of Science and Technology, Chennai, 600119, Tamil Nadu, India
[c] Kode Lab, Tumor Immunology & Immunotherapy Group, Advanced Centre for Treatment, Research & Education in Cancer, Tata Memorial Centre, Kharghar, Navi Mumbai, 410210, India
[d] Homi Bhabha National Institute (HBNI), Training School Complex, Anushakti Nagar, Mumbai, 400094, India

ARTICLE INFO

Keywords:
Breast cancer
Mesobacillus jeotgali ADCG SIST 4
Gold nanoparticles
Anticancer activity
Cytotoxicity
Apoptosis

ABSTRACT

The current area of research explores the biosynthesis, characterization, and assessment of the cytotoxic actions of gold bio-nanoparticles produced by *Mesobacillus jeotgali* ADCG SIST 4. *Mesobacillus jeotgali* ADCG SIST 4, which is the least explored marine bacteria were utilized to study the eco-friendly production. This study is to determine whether the marine bacteria *Mesobacillus jeotgali* ADCG SIST 4 is capable of producing AuNPs extracellularly. AuNPs were characterized using a combination of spectroscopic and microscopic techniques. UV–vis absorbance spectra exhibited a surface plasmon resonance peak at 546 nm, indicating the presence of AuNPs. Additionally, the AuNPs displayed a mixture of hexagonal and spherical shapes, with particle sizes ranging from 2 to 80 nm. High-resolution transmission electron microscopy (HR-TEM) was employed to investigate and describe the shape and morphology of the synthesized AuNPs. The particle size analyzer and Zeta sizer revealed the average particle size of AuNPs as 78.6 nm and charge as −13.6 mv. XRD analysis revealed the crystalline nature of AuNPs. GC-MS analysis was performed to study the capping agents involved in AuNPs formation. On Vero and MCF-7 cell lines, a significant cytotoxic response of synthesized AuNPs was evaluated using the cytotoxicity assay. Apoptosis study of the synthesized AuNPs showed extensive toxicological effects on the MCF-7 cell line by assessing the morphology of cells using propidium iodide and acridine orange staining.

1. Introduction

Nanoparticles have a higher surface area than the other materials that are macro-sized. Due to their small size and unique features compared to similar things in bulk form, nanoparticles have led to several advancements in the fields of biosensors, biomedicine, and bio-nanotechnology [1]. Nanoscience research focuses on the use of biological processes for the generation of bio-nanoparticles [2]. One of the most interesting study areas in the discipline of nanoscience is to enhance the way anticancer drugs are delivered to the tumor cell [3]. In recent years, notable advancements in the field of nanotechnology are being developed to create nanoparticles with specific shapes and sizes [4]. Synthesis of nanoparticles with regulated monodispersity, varied forms, sizes, and chemical compositions has been initiated. AuNPs have drawn the attention of researchers due to their biocompatibility and potential uses in the treatment of cancer, photothermal therapy, and drug delivery [5]. Different processes, including physical, chemical, and biological can be used to create AuNPs [6]. Physical and chemical processes consume energy and use hazardous substances with toxic by-products.

Katti et al. have reported pioneering studies toward the synthesis of a large variety of gold nanoparticles through green nanotechnology approaches [7–10]. Green nanotechnology-based synthesis is simple, inexpensive, and environmentally benign process [11]. One of the fastest-growing interdisciplinary fields of research is marine bio-nanotechnology, which combines bio-nanoscience, biomaterial science, and biotechnology [12].

The marine bacteria isolated from several environments have recently been identified as potential producers of bio-nanoparticles with bioactive compounds as stabilizers. Screening for the ability of

* Corresponding author. Centre for Ocean Research & Earth Science and Technology Cell, Sathyabama Institute of Science and Technology, Chennai, 600119, Tamil Nadu, India.
E-mail address: ganeshkumar@sathyabama.ac.in (V.G. Kumar).

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SATHYABAMA

INSTITUTE OF SCIENCE AND TECHNOLOGY

(DEEMED TO BE UNIVERSITY)

SATHYABAMA RESEARCH PARK

CENTRE FOR LABORATORY ANIMAL TECHNOLOGY AND RESEARCH

(CCSEA APPROVED)

Organizes

International Webinar on "Recent Innovations in Biological Sciences On 25th & 26th August 2023

Registration Link: https://forms.gle/zvXyLSWjmBeWEtda9

Resource Persons



Dr. Akshaya Murugesan
Senior Post-doctoral Research Fellow
Computational System Biology Group
Tampere University
Tampere, Finland

Title: Polyphenols as potential anticancer agents steering crucial signalling pathways in Glioblastoma Multiforme

Dr. T.Y.Suman,
Post doctoral researcher
Department of Environmental Engineering
Changwon National University
Changwon, Republic of Korea

Title: Plastic and microplastic an emerging threat to aquatic organisms.



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Convenors

Dr. Siva Durairaj, Assistant Professor (Research)
Dr. C. Jayaseelan, Assistant Professor (Research)

Co-Convenors

Dr. Thiyagarajan Gopal, Assistant Professor (Research)
Dr. R. Ashokkumar, Assistant Professor (Research)
Dr. B. Lokesh kumar, Assistant Professor (Research)

Registration fee 100/-

Account Details:
Name: Director Research,
A/C: 6569293542
IFSC: IDIB000S201,
Bank: Indian Bank
Branch: Sathyabama University, Chennai.

For Contact: siva.d.clatr@Sathyabama.ac.in
jayaseelan.c.clatr@Sathyabama.ac.in

Mobile: 9791403693 or 9843429490

SATHYABAMA

INSTITUTE OF SCIENCE AND TECHNOLOGY

(DEEMED TO BE UNIVERSITY)

SATHYABAMA RESEARCH PARK

CENTRE FOR LABORATORY ANIMAL TECHNOLOGY AND RESEARCH

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Organizes

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Registration Link: https://forms.gle/zvXyLSWjmBeWEtda9

Resource Persons



Dr. Akshaya Murugesan
Senior Post-doctoral Research Fellow
Computational System Biology Group
Tampere University
Tampere, Finland

Title: Polyphenols as potential anticancer agents steering crucial signalling pathways in Glioblastoma Multiforme

Dr. T.Y.Suman,
Post doctoral researcher
Department of Environmental Engineering
Changwon National University
Changwon, Republic of Korea

Title: Plastic and microplastic an emerging threat to aquatic organisms.



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Dr. Siva Durairaj, Assistant Professor (Research)
Dr. C. Jayaseelan, Assistant Professor (Research)

Co-Convenors

Dr. Thiyagarajan Gopal, Assistant Professor (Research)
Dr. R. Ashokkumar, Assistant Professor (Research)
Dr. B. Lokesh kumar, Assistant Professor (Research)

Registration fee 100/-

Account Details:
Name: Director Research,
A/C: 6569293542
IFSC: IDIB000S201,
Bank: Indian Bank
Branch: Sathyabama University, Chennai.

For Contact: siva.d.clatr@Sathyabama.ac.in
jayaseelan.c.clatr@Sathyabama.ac.in

Mobile: 9791403693 or 9843429490

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Understanding flash flooding in the Himalayan Region: a case study

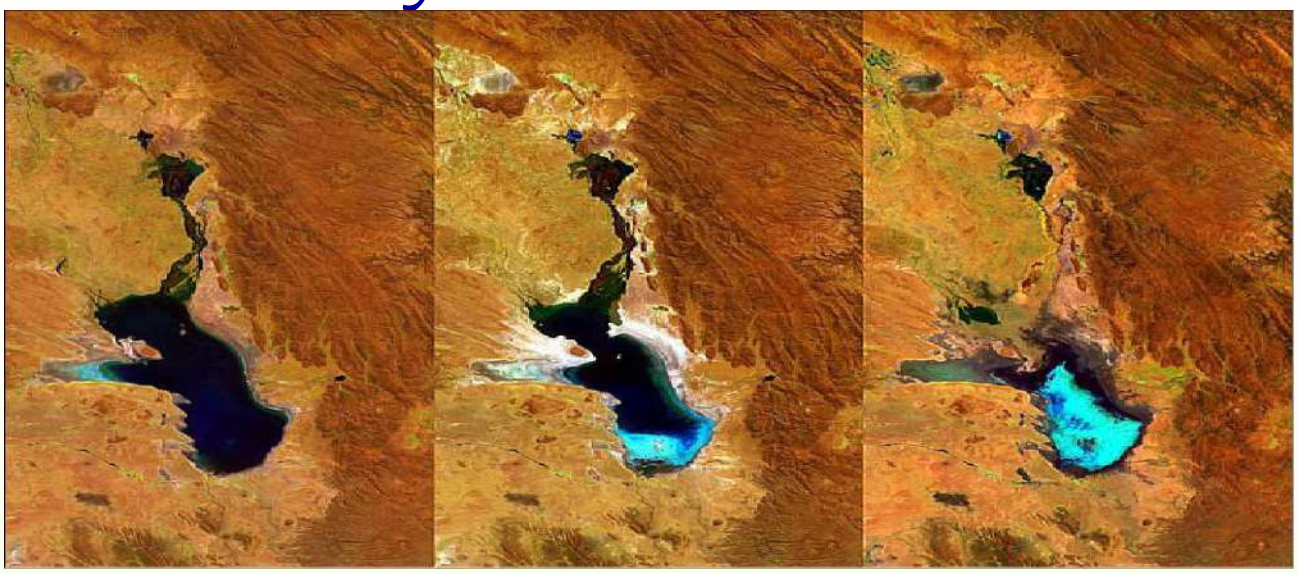
Katukotta Nagamani[1], Anoop Kumar Mishra[1,2], Mohammad Suhail Meer[1]✉ & Jayanta Das[3]

The Himalayan region, characterized by its substantial topographical scale and elevation, exhibits vulnerability to flash floods and landslides induced by natural and anthropogenic influences. The study focuses on the Himalayan region, emphasizing the pivotal role of geographical and atmospheric parameters in flash flood occurrences. Specifically, the investigation delves into the intricate interactions between atmospheric and surface parameters to elucidate their collective contribution to flash flooding within the Nainital region of Uttarakhand in the Himalayan terrain. Pre-flood parameters, including total aerosol optical depth, cloud cover thickness, and total precipitable water vapor, were systematically analyzed, revealing a noteworthy correlation with flash flooding event transpiring on October 17th, 18th, and 19th, 2021. Which resulted in a huge loss of life and property in the study area. Contrasting the October 2021 heavy rainfall with the time series data (2000–2021), the historical pattern indicates flash flooding predominantly during June to September. The rare occurrence of October flash flooding suggests a potential shift in the area's precipitation pattern, possibly influenced by climate change. Robust statistical analyses, specifically employing non-parametric tests including the Autocorrelation function (ACF), Mann–Kendall (MK) test, Modified Mann–Kendall, and Sen's slope (q) estimator, were applied to discern extreme precipitation characteristics from 2000 to 201. The findings revealed a general non-significant increasing trend, except for July, which exhibited a non-significant decreasing trend. Moreover, the results elucidate the application of Meteosat-8 data and remote sensing applications to analyze flash flood dynamics. Furthermore, the research extensively explores the substantial roles played by pre and post-atmospheric parameters with geographic parameters in heavy rainfall events that resulted flash flooding, presenting a comprehensive discussion. The findings describe the role of real time remote sensing and satellite and underscore the need for comprehensive approaches to tackle flash flooding, including mitigation. The study also highlights the significance of monitoring weather patterns and rainfall trends to improve disaster preparedness and minimize the impact of flash floods in the Himalayan region.

The most significant challenges affecting a country's long-term social, economic, and environmental well-being stem from natural disasters. This includes extreme hydro-meteorological events like cloudbursts and excessive rainfall, which, due to their severe complications and intensity, have become a focal point of research, particularly in mountainous areas. The exploration of these events is crucial for developing strategies to mitigate their impact for mountainous region[1]. In the Himalayan context, the discernment of topographical intricacies assumes paramount importance due to their potential rapid escalation into calamitous events[2]. Consequently, a comprehensive understanding of hydrological challenges and water resource resilience becomes imperative, as these phenomena manifest in diverse catastrophic forms[3]. To delineate and analyze these hydrological challenges and resilience, hydrological modeling emerges as a crucial tool. The efficacy of such modeling is contingent upon the utilization of high-resolution geospatial data, particularly within the Soil and Water Assessment Tool (SWAT) framework. This integration enhances precision in water resource management, addressing the intricacies posed by the challenging Himalayan terrain[4]. This aligns with the study of Patel et al. 2022[5], who concentrate on the 2013 Uttarakhand flash floods, underlining the importance of hydrological assessments and the development of disaster preparedness strategies in the region. The catastrophic nature of flash floods caused by cloud bursts

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Information Brochure



Summer Internship Programme on
REMOTE SENSING AND GIS
16th to 27th May 2024

Patrons

Dr. Mariazeena Johnson, Chancellor
Dr. Marie Johnson, President
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Indian Society of Remote Sensing (ISRS)
Chennai Chapter

Sathyabama
Institute of Science and Technology

(Established under Section 3 of the UGC Act, 1956)
Category 'A++' University by MHRD. Govt. of India
Jeppiaar Nagar, Rajiv Gandhi Road,

About Sathyabama Institute of Science and Technology:

Sathyabama is a prestigious institution which excels in the fields of Engineering, Science and Technology for more than three successful decades. It offers multi-disciplinary academic programmes in various fields of Engineering, Science, Technology, law, Dental Science, Pharmacy, Nursing, Management, Arts and Science and Allied Health Sciences. It is established under Sec.3 of UGC Act, 1956 and is been Accredited with 'A++' Grade by the National Accreditation and Assessment council. Sathyabama has been ranked in 40th position by the NIRF among the Universities in India for the year 2021 and ranked one among the top 50 Universities for six consecutive years. Sathyabama is ranked among the Top 5 Institutions in the Country for Innovation by ATAL ranking for Innovation Achievements. TIMES Higher Education and QS has ranked Sathyabama among the top Institutions worldwide. It is a research intensive University with world class laboratories and research facilities and has undertaken various sponsored and collaborative R&D projects funded by National and International Organisations. Sathyabama has written a special page in the history of space research in June 2016 with the launch of "SATHYABAMASAT" in association with ISRO. Visit us on : https://www.sathyabama.ac.in.

Centre for Remote Sensing and Geoinformatics

Centre for Remote Sensing and Geoinformatics (CRSG) is the first research centre managed by Sathyabama Institute of Science and Technology to focus on Advanced Remote Sensing and GIS applications in interdisciplinary aspect. Centre has been established in 2004 as a joint initiative of ISRO and Sathyabama Institute to fulfil the goal of establishing advanced centres in frontier areas of Science and Technology. To its credit CRSG was considered as a nodal centre for conducting Geospatial training programme supported by ISRO-IIRS, and various training programs supported by Department of Science and Technology (DST) -NRDMS program, Ministry of Earth Sciences (MoES), Science and Engineering Research Board (SERB) and ISRO-Respond. Centre has successfully completed many research projects funded by various agencies and research organisations like, DST, Bharatiya Nabikiya Vidyut Nigam Ltd. (DAE-BHAVINI), National Institute of Wind Energy (NIWE), SERB, ISRO, and MoES. Visit us on: http://www.su-crsg.org.

About the Program:

This Internship programme provides excellent infrastructure experienced manpower adequate software and hardware that provides an offer for an unique opportunity for participants to learn basics of Remote Sensing, GIS and GPS. Programme is devised to accommodate both lecture schedules and individual hands on /lab sessions focussing on the basic modules of Remote Sensing, GIS, Cartography and GPS. Open source software that include QGIS, and SAGA will be trained to students on modules like Image Processing and classification. Participants are encouraged to make use of this opportunity to get certified from our Centre. As this certification holds good in getting additional benefits for job opportunities. In addition applications on various fields that include Agriculture, Environment studies, Water Resource Management, Coastal Wetland Management, Urban Planning and Climate studies will be handled by a team of skilled Scientists from Centre for Remote Sensing and Geo-informatics.

Duration	**: 10 days**	
Participants	**: UG, PG & Research Scholars**	
Registration Fees	**: UG, PG & Research Scholars**	**Rs. 1000/-**
	Faculties	**Rs. 1200/-**

Course Titles	Modules
Introduction to Remote sensing	Stages of Remote Sensing, electromagnetic spectrum, EMR interaction with atmosphere, Platform characteristics, Orbit types and its importance, Active and Passive Sensors, Resolution and its types, Indian imaging systems.
Principles of GIS	GIS introduction, Components of GIS, Source of GIS data, Capturing GIS data, GIS data models, Map projections, Data integration, buffer analysis, overlay analysis, DEM, Terrain analysis, Applications. Basic elements of graphic design and communication are reviewed to ensure that output from GIS is comprehensible and effective.
Basics of GPS	GPS introduction, concepts, GPS Segments, GPS functions, Applications of GPS, types of GPS, Connecting and Navigating with GPS, GPS and GIS integration, Editing and exporting the data into GIS environment.
Platforms sensors of remote sensing and data products	Platforms sensors of remote sensing,- Stages of remote sensing, platforms - ground, air, space, altitude, types of orbits- geostationary, polar, sensor- passive, active, imaging, non imaging, RADAR, LIDAR, Scanner, satellite data products
Visual Image Interpretation and digital Image Processing	Image Interpretation, keys and elements, pattern recognition and feature extraction, Principles of Image processing, Digital Image formats, Image rectification and restoration, Image enhancement, Image classification and processing
Application of Remote Sensing and GIS in Agriculture	Importance of Remote Sensing in GIS in the Agriculture Sector, Crop Classification, Crop Condition Assessment, Various Vegetation Indices and their importance, Crop yield estimation, Change Detection, Mapping Soil Characteristics, Land Suitability Assessment
Remote Sensing and GIS application in Coastal regions	Introduction to Coastal applications, Data Acquisition , Coastal Land Cover Classification, Shoreline Mapping, Coastal Change Detection ,Coastal Vulnerability Assessment and Coastal Zone Management
Atmospheric Measurements Techniques	Introduction to atmospheric structure and composition, Atmospheric Measurement techniques, Ground based and satellite remote sensing of the atmosphere, atmospheric data analysis using mat lab, Reanalysis and climate projection data utilization.
RS and GIS application on Water Resource Management	Introduction to water resource management, Data Acquisition , Classification, Water Quality Analysis and Hydrology modelling

Registration Link: https://forms.gle/qSAzU8x6CX2rD31H6
Fees: Students UG/PG: Rs. 1000/- Faculties: 1200/-
Payment. Account Details
Account No. 6569293542, Bank: Indian Bank, Branch: Sathyabama University , IFSC Code: IDIB000S201,
Account holder: Director Research -Sathyabama Institute of Science and Technology

Note:It is mandatory to include candidate name , Mention Summer Program
Mode of payment -Google pay, Phone Pay, Online transaction.

सत्यमेव जयते

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समन्वय का प्रमाणपत्र
CERTIFICATE OF COORDINATION

यह प्रमाणित किया जाता है कि सत्यबामा इंस्टीट्यूट ऑफ साइन्स एंड टेक्नोलोजी कार्यरत डॉ॰ नागमणि के, ने पायथन के उपयोग द्वारा जियोडाटा प्रसंस्करण विषय पर इस संस्थान द्वारा दिनांक 20 फरवरी, 2023 से 24 फरवरी, 2023 तक संचालित ऑनलाइन प्रशिक्षण पाठ्यक्रम को समन्वित किया।

This is to certify that **DR. NAGAMANI K**, working with **Sathyabama Institute of Science and Technology,** has coordinated the online training course on **Geodata Processing using Python** conducted by this institute during February 20, 2023 to February 24, 2023

दिनाँक/ Date: **11-03-2023**
देहरादून/ Dehradun

प्रमुख,
जियोवेब सर्विसेस, सूचना प्रौद्योगिकी एवं दूरस्थ अधिगम विभाग
Head, Geoweb Services, IT & Distance Learning Department, IIRS

समूह प्रमुख,
भू-स्थानिक प्रौद्योगिकी एवं आउटरीच कार्यक्रम समूह
Group Head, Geospatial Technologies & Outreach Programme Group, IIRS

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環境變遷研究中心
Research Center for Environmental Changes, Academia Sinica
128, Sec. 2, Academia Rd., Taipei 115, Taiwan TEL：886+2 2653-9885 FAX：886+2 2783-3584

July 01, 2023

To Whom it may concern,

This is to certify that Dr. Mekalathur RojaRaman has attended the training course and field campaign on Multi-Axis Differential Optical Absorption Spectroscopy (MAX-DOAS) from **June 12 to July 1, 2023,** organized at the Research Centre for Environmental Changes, Academia Sinica, Taipei, Taiwan in association with Institute of Physics, University of Bremen, Germany. During this three weeks program he had theoretical and hands-on experience with the Principles of MAX-DOAS including instrumentation, retrieval algorithms, and error analysis. He also gained experience in operating the DOAS instrument on field and mobile platforms and trouble shooting. His active participation in the program is well appreciated.

We look forward for his active collaboration with DOAS measurements in India.

Best regards,

Wei-Nai Chen

Wei-Nai Chen. 2023. 6. 30.

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Fwd: Fw: Technology Development Programme (TDP) : Programme Advisory Committee (PAC) meeting held during 11-12 January, 2024 at ARCI, Hyderabad

1 message

Chandan Sarangi <chandansarangi@zmail.iitm.ac.in> Mon, Mar 18, 2024 at 4:15 PM
To: ramansvu <ramansvu@gmail.com>

From: Chandan <chandansarangi@iitm.ac.in>
To: chandansarangi <chandansarangi@civil.iitm.ac.in>; ramansvu <ramansvu@gmail.com>
Date: Thursday, 7 March 2024 12:16 PM IST
Subject: Fw: Technology Development Programme (TDP) : Programme Advisory Committee (PAC) meeting held during 11-12 January, 2024 at ARCI, Hyderabad

Congratulations !!!

From: Dr. AKHILESH MISHRA <akhilesh.mishra@nic.in>
Sent: Thursday, March 7, 2024 10:46 AM
To: prashantbpande21@gmail.com; Chandan Sarangi; Pijus Kundu; sumana.ghosh@ch.iitr.ac.in; Kuldip Singh; kbasu@iisc.ac.in; baishali1@gmail.com; spleokumar@gmail.com; mahanth.prasad@gmail.com; chenna.borra@metal.iitkgp.ac.in; Joydip Joardar; s.roshmi@gmail.com; saikat@iitd.ac.in; ayan.civ@iitbhu.ac.in; Kanchanadevi; anupamachem@gmail.com; satya.bhogilla@iitjammu.ac.in; sksinha@civil.iitd.ac.in; Dr.-Ing. Saptarshi Sasmal; laskar@civil.iitb.ac.in
Cc: tdpdst; Dileep Krishna Mathi; Pramod Snkr; Praveen Roy
Subject: Technology Development Programme (TDP) : Programme Advisory Committee (PAC) meeting held during 11-12 January, 2024 at ARCI, Hyderabad

Dear Sir/ Madam,

Greetings from DST!

Congratulations!

Programme Division is pleased to inform you that, the proposal which you have presented before the TDP-Programme Advisory Committee (PAC) meeting held **during January 11-12, 2024 at ARCI, Hyderabad** has been recommended for funding under the Programme by the Department.

Separately, we will communicate you other details including PAC's remarks/observations (if any).

Meanwhile, you are requested to arrange the following documents **in a PDF format** :-

- **3 sets of quotations of equipment's (if any) proposed in the Proposals**: (preferably as per the GFR Rule- 2017, it is mandatory for the grantee organization to purchase the equipment's through the Government e-Marketplace (GeM), to the extent available there, as the project involves government funding). If already sent with the proposal, kindly arrange a **fresh quotation.**
- Year-wise Tentative Quantified List of Consumables (along with the cost) required during the project execution.
- A table of modified budget, if any (As per the PAC's Suggestion).
- A copy of modified proposal (in case modified as per PAC's suggestions, otherwise not required).
- NGO Darpan ID and PAN of the institute (if applicable) for Private Institution/NGO.
- PFMS details of the institute including a Zero Balance Subsidiary Account (*ZBSA*) in Union Bank of India for the DST scheme 1819- "Innovation Technology Development and Deployment. (kindly ensure that account is mapped in the PFMS). Bank Mandate form duly signed by the Institute as well as Bank' s authority.

We will send a mail soon regarding requirement of the above documents to enable us further processing for the funding.

आदर के साथ..

डॉ. अखिलेश मिश्र
==========
Dr. Akhilesh Mishra
वैज्ञानिक 'ई' | Scientist 'F'
प्रौद्योगिकी विकास कार्यक्रम | डेटा और रणनीति इकाई (डीएसयू)
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18/07/2024

ENDORSEMENT FROM HEAD OF INSTITUTION

Certified that the Institute welcomes participation of **Dr. Mekalathur RojaRaman**, Centre for Remote Sensing and Geoinformatics as the Principal Investigator, and **Dr. Ribu Cherian,** Centre for Earth and Atmospheric Sciences and **Dr. Chandan Sarangi**, IIT Madras as the Co-Principal Investigators for the project titled "**Indigenous development of Compact Dual Polarization Micro Pulse LIDAR (IDMPL)**" and that in the unforeseen event of discontinuance by the Principal Investigator, the Principal Co-Investigator will assume the responsibility for the fruitful completion of the project (with due information to MOES) otherwise the Institute takes up the responsibility to depute a competent expert from the institute as PI for the successful completion of the project.

1. Certified that the equipment and other basic facilities and such other administrative facilities as per terms and conditions of the grant, will be extended to the investigator(s) throughout the duration of the project and the institute is committed to maintain and utilize the equipments around the year.
2. Certified that equipment proposed in the proposal has not been procured out of MoES grants under any other projects.
3. Certified that the equipments procured out of the grants from MoES will be accessible to other researchers.
4. Certified that data generated out of the project will be made available for use by any researchers after two years of completion of project.
5. Institute assumes to undertake the financial and other management responsibilities of the project

Date:

Place:

SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY

Signature with Official Seal

Dr.S.S.RAO, M.B.A.,Ph.D.,
REGISTRAR
SATHYABAMA
INSTITUTE OF SCIENCE AND TECHNOLOGY
(DEEMED TO BE UNIVERSITY)
Jeppiaar Nagar, Rajiv Gandhi Salai
Chennai - 600 119.

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CHENNAI - 600 036

Prof. MANU SANTHANAM
DEAN, IC&SR

No: ICSR/NP/2024-25
19, July 2024

ENDORSEMENT FROM HEAD OF INSTITUTION

Proposal Title: " **Indigenous development of Compact Dual Polarization Micro Pulse LIDAR (IDMPL)"**

1. Certified that the Institute welcomes participation of **Dr. Mekalathur Rojaraman, Assistant Professor, from Sathyabama Institute of Science and Technology, Chennai** as the **Principal Investigator** and **Dr. Chandan Sarangi, Assistant Professor, Department of Civil Engineering, IIT Madras** and **Dr. Ribu Cherian, Assistant Professor from Sathyabama Institute of Science and Technology, Chennai** as the **Co-Principal Investigators** and that in the unforeseen event of discontinuance by the Principal Investigator, the Co–Principal Investigators will assume the responsibility for the fruitful Completion of the project **(with due information to MOES)** otherwise the Institute takes up the responsibility to depute a competent expert from the institute as PI for the successful completion of the project.

2. Certified that the equipment and other basic facilities and such other administrative facilities as per terms and conditions of the grant, will be extended to the investigators throughout the duration of the project and the institute is committed to maintain and utilize the equipment around the year.

3. Certified that equipment proposed in the proposal has not been procured out of MoES grants under any other projects.

4. Certified that the equipment procured out of the grants from MoES will be accessible to other researchers.

5. Certified that data generated out of the project will be made available for use by any researchers after two years of completion of project.

6. Institute assumes to undertake the financial and other management responsibilities of the project.

डॉ. मनु संतानम
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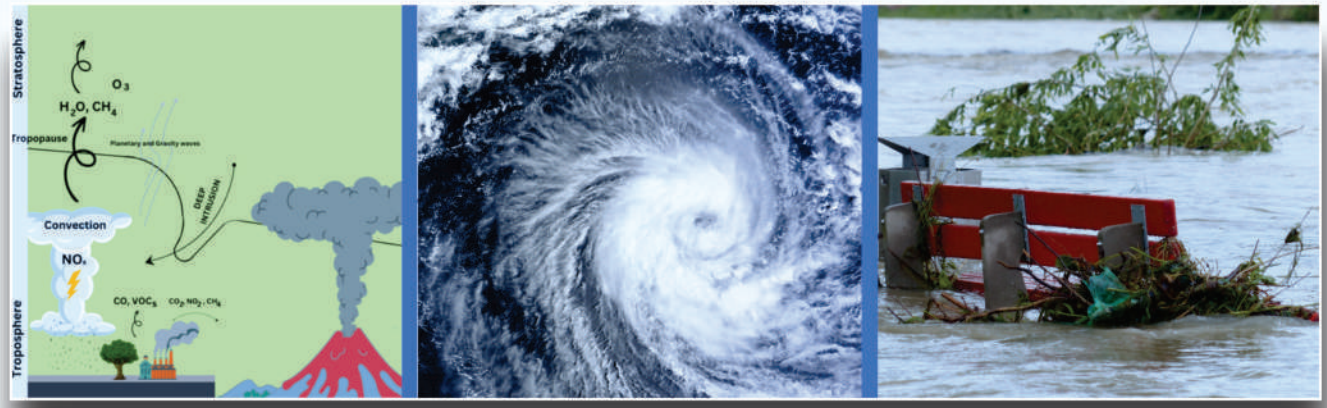
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ABSTRACT BOOK



अंतरराष्ट्रीय कार्यशाला
समतापमंडल-क्षोभमंडल अंतःक्रिया एवं मानसून मौसम चरमावस्था के पूर्वानुमान
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Prediction of Monsoon weather EXtremes (STIPMEX)
02 - 07 June 2024

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Ministry Of Earth Sciences
Government of India

WORLD METEOROLOGICAL ORGANIZATION

WCRP World Climate Research Programme

APARC Atmospheric Processes And their Role in Climate

JÜLICH Forschungszentrum

WWRP WORLD WEATHER RESEARCH PROGRAMME

WGTMR

SSiRC

ACAM ATMOSPHERIC COMPOSITION & THE ASIAN MONSOON

Azista

M&G ANALYSER SYSTEMS

tessconn



STIPMEX

Long Term Changes in Tropical Easterly Jet- Observational and Multi-model Approach

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Indian Summer Monsoon (ISM) consists of several elements that are inter-linked. Any change in one element will reflect on the other and finally on the rainfall characteristics. In the changing climate, several changes have been reported in these elements. Two important elements that directly affect the ISM are the Monsoon Low Level Jet (MLLJ) and Tropical Easterly Jet (TEJ). The long term changes in the characteristics of TEJ features during ISM months (June, July, August and September) has been investigated using sixteen years of high resolution GPS radiosonde observations over NARL, Gadanki is reported in the present study. Further, Availability of more than four decades of high resolution reanalysis data sets over the Asian monsoon region are used to monitor the changes in spatial extent and strength of TEJ. The bias in estimating the TEJ characteristics with reference to the high resolution radiosonde and radar wind profiler is quantified. The detailed characteristics of horizontal wind fields like TEJ peak strength, height and width over a given grid/location is estimated daily during monsoon months and then averaged for peak monsoon months July and August to represent the seasonal mean. The seasonal mean time series of TEJ characteristics are subjected to multi-variate regression analysis to extract the dominance of natural variabilities like QBO, ENSO and solar cycle. The residual time series is then subjected to linear regression to estimate the long term trend in TEJ strength and spatial extent. In addition, the forward moving regression is performed to find the point of origin that make the change in trend. The relation between TEJ characteristics and monsoon rainfall and tropical cyclones is delineated. Finally the future projections in TEJ characteristics are examined with the help of CMIP model outputs.

Keywords: Indian Summer monsoon**,** Tropical Easterly Jet, GPS radiosonde, Reanalysis data, Climate Projections.

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ANN-based PCA to predict evapotranspiration: a case study in India

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ABSTRACT

The Penman–Monteith evapotranspiration (ET) model has superior predictive ability to other methods, but it is challenging to apply in several Indian stations, owing to the need for a large number of climatic variables. The study investigated an artificial neural network (ANN) model for calculating ET for various agro-climatic regions of India. Sensitivity analysis showed that the overall average changes in ET_0 values for 25% change in the climatic variables were 18, 16, 14, 7, 5, and 4%, respectively, for T_{max}, RH_{mean}, R_n, wind speed, T_{min}, and sunshine hours. The dominant climatic variables were identified from the principal component analysis (PCA) and ET_0 was computed using an ANN with dominant climatic variables. The ANN architecture with backpropagation technique had one hidden layer and neurons ranging from 10 to 30 for all climatic variables and from 5 to 10 for PCA variables. The new ET models were statistically compared with Penman–Monteith ET estimate, and found reliable. PCA variables guaranteed an estimate of ET_0 accounting for 98% of the variability. The average values of coefficient of determination, standard error of estimate, and percentage efficiency were observed as 0.96, 0.24, and 94%, respectively.

Key words: agro-climatic regions, ANN models, evapotranspiration, Penman–Monteith model, principal component analysis

HIGHLIGHTS

- The Penman–Monteith ET model is the standard but data-intensive, so its applicability is limited.
- The crucial climatic variables influencing ET are identified for various agro-climatic regions using principal component analysis and sensitivity analysis.
- New ET models are developed and compared with the standard Penman–Monteith ET estimate.
- Less data-intensive ANN models are proven to be acceptable in estimating ET_0.

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PROCEEDINGS

Volume 003,2023

Ulaanbaatar
Mongolia

Identifying groundwater site suitability of artificial recharge structures in Kalrayan hills, Tamil Nadu for tribal community using resistivity survey and geospatial technology

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ABSTRACT

Artificial recharge structures can improve water availability in regions with water scarcity, such as the Kalrayan hills in Tamil Nadu. The tribal communities in this region are particularly vulnerable to water scarcity effects, and thus mapping artificial recharge structures can significantly benefit them. One of the practical approaches to mapping these structures is using resistivity surveys and geospatial technology. Resistivity involves measuring the electrical resistance of the subsurface, which can help identify changes in the subsurface materials, including variations in water content. Geospatial technology can help to create accurate maps of the survey results, which can then be used to identify potential sites for artificial recharge structures. The present study focuses on potential groundwater zones in Kalrayan hills in Villupuram district, Tamil Nadu, India, with semi-arid climatic conditions. In this study the integrated GIS analysis, groundwater potential zones map of the study area was prepared qualitatively. For cross check in the field the Schlumberger Vertical Electrical Sounding review (VES) method have been done with the 10 sampling station in the hilly area of Kalrayan Hills. According to potential groundwater zones various recharge structures have been suggested for the research region based on the findings and potential groundwater zones. The outcome of Groundwater Potential Zones map is drawn from weighed overlay using AHP performed very well in predicting the groundwater surface and calibrated by using resistivity survey given accurate information of the area and hence this methodology proves to be a promising tool forfuture. Hence, groundwater management with an innovative method paves the way for sustainable water management.

Keywords: *Groundwater, recharge structures, resistivity survey, semi-arid region, Remote Sensing and GIS.*

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Department of Electronics and Communication Engineering
Events Organized (2023-2024)

Name of Event/Seminar/Conference/Workshop	Date	Event Type
IE(I) sponsored All India seminar on "Research Avenues of IoT and Cloud for Intelligent Applications"	14.06.2023 to 15.06.2023	Seminar
National level technical workshop "IoT for Real Time Applications"	10.06.2023 to 14.06.2023	Workshop
Six-day workshop on 'New paradigm on photovoltaics from powering Satellites to powering Humanity'	16.08.2023 to 23.08.2023	Workshop
Guest Talk on Cloud Computing	04.08.2023	Guest Lecture
Guest talk on "Next Gen AI"	18.08.2023	Guest Lecture
Guest Talk on Startup	01.09.2023	Guest Lecture
Guest Talk on Your Body is the Engine, Your Mind is an Engineer	15.09.2023	Guest Lecture

School of Electrical and Electronics

Department of Electronics and Communication Engineering

2023-2024

IE(I) sponsored All India seminar

IE(I) sponsored All India seminar on "Research Avenues of IoT and Cloud for Intelligent Applications" has been organized by the The Institution of Engineers (India)", Kanchepuram local centre under the aegis of Electronics & Telecommunication Engineering Division in association with Sathyabama IE(I) ECE Student Chapter and the Department of Electronics and Communication Engineering, Sathyabama Institute of Science and Technology, Chennai, India from 14th to 15thJune, 2023 for third and fourth year ECE students. It has provided a platform of interaction and exchange of ideas on Internet of Things and Cloud computing. It has also motivated the research scholars, academicians and students to equip themselves with strong knowledge about the various algorithms and tuning methodologies related to it.



IE(I) sponsored All India seminar

National level technical workshop

Five days national level technical workshop "IoT for Real Time Applications" was held at ECE department from 10thJuly to 14th July 2023. The event began with the felicitation of the guest speaker – Dr. Ashish Kumar from VIT-Chennai. This was followed by our Dean Dr. N. M. Nandhitha and our HOD Dr. T. Ravi. Espousing the participants Dr. Ashish Kumar reflected his vast insights and knowledge on the topic and emphasized the importance of IoT applications in Biomedical Field (ECG). With the charts and graphs he prepared the audience was intricately made aware of how our biomedical field is using for the IoT applications. He also proposed a new biomedical application which can relate to IoT. It was a truly eye-opening experience for all the participants on IoT applications. The symposium ended with a round of questions from the participants. There are totally, 102 students participated, from ECE final year. In total 5 days of this workshop program, the IoT Applications on Medical, Agriculture and Smart City covered by Corresponding Guests. The 5-days long workshop ended with a vote of thanks. The participants also vowed to bring about a new applications and use of IoT technology.



National level technical workshop

Six-day workshop on 'New paradigm on photovoltaics from powering Satellites to powering Humanity'

A six-day workshop entitled 'New paradigm on photovoltaics from powering Satellites to powering Humanity' was organized by the Department of Electronics and Communication Engineering, School of Electrical and Electronics, Sathyabama Institute of Science and Technology, Chennai from 16.08.2023 to 23.08.2023 and. On Day 1, Dr. Ashwin Jacob lucidly discussed the potential applications of Solar PV cells. He made the session interesting by putting a few pondering questions in between the session. On the second day, Dr. V. Meenakshi gave a nice presentation on the application of a Smart Grid on solar energy. On the third day, Dr.G.A.Rathy from NITTTR from Taramani took the lecture on Solar power system design with a practical demo. It was really an inspiration to the participants. Imparting her valuable insights about the PV system, and implications of Software PVSyst is an added tag to this workshop. On the fourth day, Dr. G.D. AnbarasiJebaselvi presented a topic on Research directions using Perovskite solar cells. The last two days, Mr.G.Rajaganaesan from Tamil Nadu Advanced Technical Training Institute, TATTI came and gave hands-on training on two solar software namely PVSyst and SolarPro. All the students were benefitted from this training session and able to design the Solar PV systems on their own.



Six-day workshop entitled 'New paradigm on photovoltaics from powering Satellites to powering Humanity'

Guest Talk on Cloud Computing

One day Guest Talk on Cloud Computing was held in ECE department on 4thAugust 2023. The topic of the event is "Path to Cloud Computing by Communication Engineering". The event began with the felicitation of the Guest speaker – Mr. RamasamyPanchavaram, founder of Ramsel Cloud Technology Private Limited,Chennai followed by our Dean Dr. N.M. Nandhitha and our HOD Dr. T. Ravi espousing the participants. There are totally, 50 students participated from III Year ECE .Mr. RamasamyPanchavaram reflected his vast insights and knowledge on the topic and emphasized the importance of cloud computing on communication engineering. With the charts and graphs he delivered, the audience was intricately made aware of how our cloud computing is used for the communication engineering. He also proposed a new path to cloud computing which can be used by communication engineering field. It was a really an eye-opening session for all the participants. The event ended with a round of questions from the participants. In this 1-day event, the path to cloud computing on communication engineering field was covered by the respected guest.



Guest Talk on Cloud Computing

Guest talk on "Next Gen AI"

IEEE Student Branch, Sathyabama Institute of Technology organized a captivating guest talk on "Next Gen AI," a pivotal event that drew the enthusiastic participation of ECE students on 18.08.2023. The session provided an insightful exploration into the frontiers of Artificial Intelligence and its upcoming advancements. Mr. Earnest Paul, R&D Engineer, Valgenesis India an eminent person in the AI domain, graced the event as the distinguished guest speaker. With a plethora of expertise, Mr. Paul delved into the fascinating realm of Next Generation AI, shedding light on its profound impact on industries and society. He navigated the audience through cutting-edge applications spanning from autonomous systems to quantum computing. Engaging anecdotes from his professional journey further enriched the talk, inspiring aspiring engineers. The attendees were captivated by Mr. Paul's lucid explanations, leaving them with a deeper understanding of AI's potential. Thought-provoking questions from the audience sparked intriguing discussions, making the session interactive and informative. The event not only broadened horizons but also ignited a passion for innovation among the students, motivating them to contribute actively to the AI landscape. In summary, the IEEE Student Branch's "Next Gen AI" guest talk proved to be a resounding success, fostering a dynamic learning environment where aspiring engineers could engage with a visionary like Mr. Earnest Paul and envision the limitless possibilities of AI in the near future.



Guest talk on "Next Gen AI"

Guest Talk on Startup

Startup Griffin was organized by the Department of Electronics and Communication Engineering Students on 1st September 2023. Mr.Deepak Merla Co-founder of startup Griffin and CEO of Rized has graced the session as the Chief Guest and Resource Person. First year and Second year students from ECE department have taken part in the session. He has given excellent coverage on the topics such as Startup and how to build it from the starting stage to ending stage. He told about total structure and it's process of the startup, what are ways to find team and how to test it in our community and MVP products and how to generate the revenue process and etc. The students are also so happy to learn and all of them was ready to build their own startup in upcoming days the people who are came they are very enthusiastic in building their own company in upcoming days. It was really help for people who are willing to build their startup and their own company.



Startup Griffin

Guest Talk on Your Body is the Engine, Your Mind is an Engineer

On National Engineers' day in commemoration of Dr. Sir. M. Visveshvaraya, Department of Electronics and Communication Engineering in association with Sathyabama IE(I) ECE Student Chapter has organized a Guest Lecture with the title "YOUR BODY IS THE ENGINE, YOUR MIND IS AN ENGINEER" on 15th September 2023 to ECE students. Mr. Subramani, Data Scientist, from LatentView Analytics has shared his expertise by delivering a comprehensive presentation on the the idea that engineers have a unique way of thinking that involves perceiving everything as a system ,and about how engineers use their skills to design and innovate products, structures, systems & systematic approach to solve problems. He then explained about outcome on combination of logic, creativity, and technical knowledge. The enthusiastic students have actively participated, benefiting immensely from the valuable insights offered during the lecture.



Guest Talk on Your Body is the Engine, Your Mind is an Engineer