



SATHYABAMA
INSTITUTE OF SCIENCE AND TECHNOLOGY
(DEEMED TO BE UNIVERSITY)
(Established under Section 3 of the UGC Act, 1956)
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SIX DAYS VIRTUAL WORKSHOP
on
"RECENT TRENDS IN AERONAUTICAL ENGINEERING"
1st - 6th February 2021

Six days Webinar on **RECENT TRENDS IN AERONAUTICAL ENGINEERING** was organized by the Department of Aeronautical Engineering & School of Mechanical Engineering Sathyabama Institute of Science and Technology, Chennai on 01st Feb and 06th Feb 2021.

The opening ceremony was held on 01st Feb 2021 at 11.00 am. Dr. A. Anderson, Professor, Department of Aeronautical Engineering, Sathyabama Institute of Science and Technology delivered a welcome address.

Dr. G. P. Booma Devi, Head of the Department of Aeronautical Engineering, Sathyabama Institute of Science and Technology, delivered the presidential address with the theme of the workshop and the objectives behind organizing the workshop.

There were six Technical Sessions in the workshop excluding Inaugural Session and Valedictory Session. The workshop was witnessed by 78 participants from various institutions in India.



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Session I -

The First Session was addressed by Mr. Abraham Nishanth Nelson, Customer Manager, Airbus-Toulouse, France. He delivered his deliberation on the Airworthiness Regulation and Maintenance Influence in Aircraft Design. He elaborated with practical illustrations for Airworthiness Directives. He also dictates the importance of Aircraft Design in Airworthiness.

Session II

The second session was addressed by Dr. M. Dorairaj, Associate Project Director, GSLV, ISRO, Bangalore, who delivered his views on the Search to Innovate because it is superior to Research. He elaborated about the Novel materials and production of new components in replacement of fatigue fracture materials.

Session III

The third session was presented by Mr. P.G.Ramanan, Director, CADDAM Technologies Pvt. Ltd, Chennai. He had presented his reflections were on Research and Development Techniques using CAD/CAM/CAE in Aerospace Industries.

Session IV

The Fourth Session was presented by Dr. T. Ram Prabhu, Aerospace Material Scientist. He had presented his reflections were on Material crystal structure and properties of aerospace materials. He highlighted on various case studies of testing the Aerospace materials and expressed the material behavior on thermal shield protection for re-entry vehicles.

Session V

The Fifth Session was presented by Dr. Shiena Shekhar, Professor, Bhilai Institute of Technology. He had presented his reflections were on Essential Qualities for Excellency in Leadership. He highlighted on qualities possessed by a student for preparation of his



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employability. He insisted on the students' development towards their skill in the field of Aeronautics.

Session VI

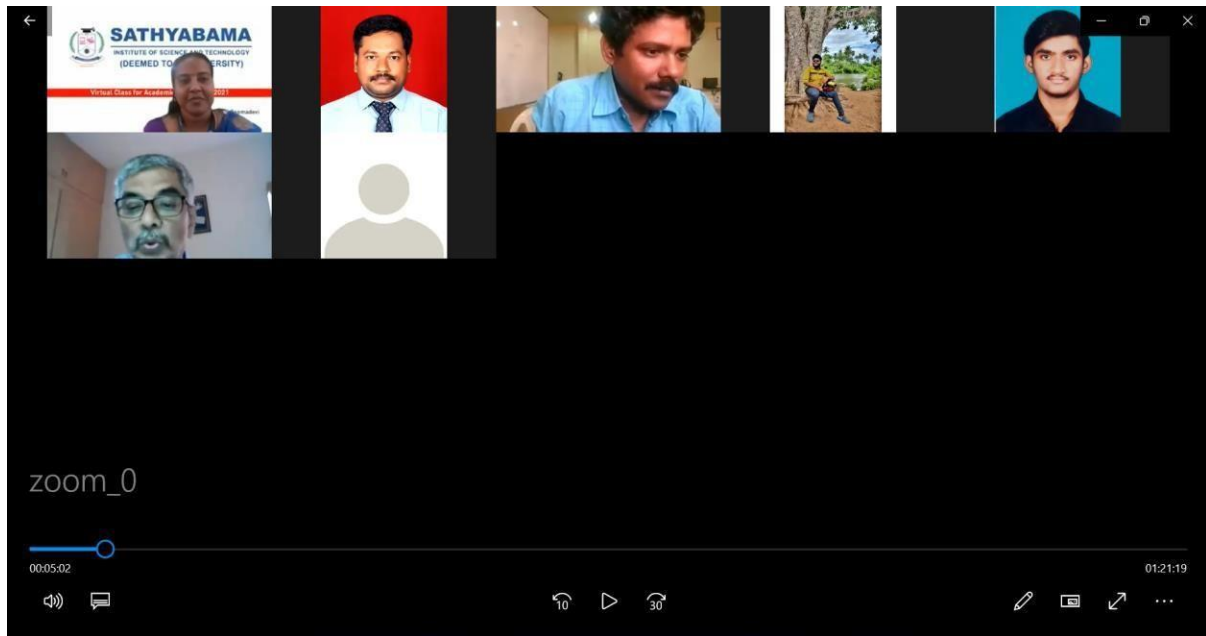
The Fifth Session was presented by Mr. R. M. Amal Raj, Indian Navy. He had presented his reflections were on Career Opportunities in Aeronautical Engineering. He highlighted skill transformation for the preparation of one's own employability.



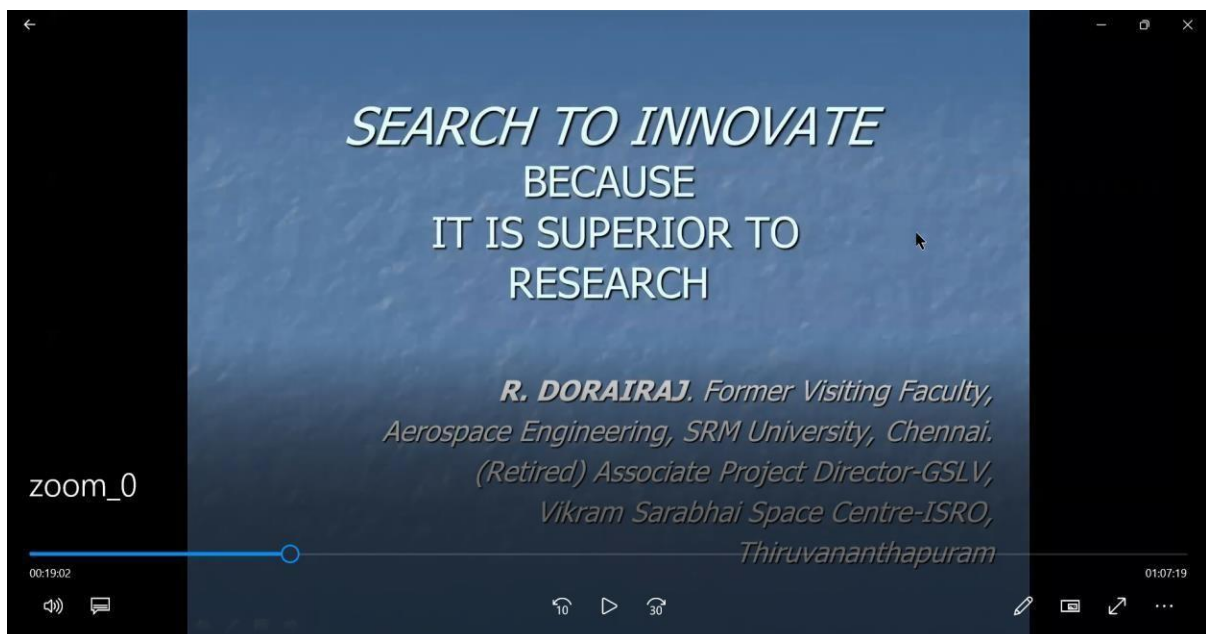
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PHOTO GALLERY



Welcome Address-Introductory talk by Dr. P. Booma Devi, Skill-Lync



Dr. R. Dorairaj explained about the innovative research



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SIX DAYS VIRTUAL WORKSHOP ON
RECENT TRENDS IN
AERONAUTICAL ENGINEERING

1st FEBRUARY to 6th FEBRUARY 2021

Organized by
DEPARTMENT OF AERONAUTICAL ENGINEERING
SCHOOL OF MECHANICAL ENGINEERING



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RECENT TRENDS IN AERONAUTICAL ENGINEERING
02.10.2021 to 08.10.2021

DATE	TIME	TOPIC	EXPERT SPEAKER
1 st FEB	11.00 AM – 12.30 PM	Airworthiness Regulation & Maintenance Influence in Aircraft Design	Mr. Abraham Nishanth Nelson Customer Manager - Aircraft Maintenance Program Engineering Airbus - Toulouse, France
2 nd FEB	11.00 AM – 12.30 PM	Search to Innovate, because it is superior to Research	Mr. R.Dorairaj Retired Associate Project Director, GSLV, VSSC, ISRO
3 rd FEB	11.00 AM – 12.30 PM	Research and Development Techniques using CAD/CAM/CAE in Aerospace Industries	Mr. P.G Ramanan Director, Partner & MR, CADDAM Technologies Pvt Limited
4 th FEB	11.00 AM – 12.30 PM	Trends in Aerospace Materials	Dr. T.Ram Prabhu Aerospace Material Scientist
5 th FEB	11.00 AM – 12.30 PM	Essential Qualities for Excellency in Leadership	Dr. Shiena Shekhar Professor, HOD (Mechanical), Bhilai Institute of Technology
6 th FEB	11.00 AM – 12.30 PM	Career Opportunities in Aeronautical Engineering	Mr. R.M. Amal Raj Indian Navy, Sathyabama Aero Valuable Alumni

REGISTRATION FREE

E CERTIFICATE WILL BE ISSUED

For Registration Contact:

Dr.A.Anderson – 9940 223 023
Convener
Professor, Aeronautical

Mr.Kaja Bantha Navas – 9952 699 572
Coordinator
Assistant Professor, Aeronautical

CHIEF PATRONS

Dr.Mariazeena Johnson
Chancellor

Dr.Marie Johnson
President

**Ms.Maria Bernadette
Tamilaras Johnson**
Vice President

Mr.J.Arul Selvan
Vice President

PATRONS

Dr.T.Sasipraba
Vice Chancellor

Dr.S.Prakash
Dean, Mechanical

CONVENERS

Dr.P.Boomadevi
HOD, Aeronautical

Dr.A.Anderson
Asso Professor, Aeronautical

COORDINATORS

Mr.Kaja Bantha Navas
Asst Professor,
Aeronautical

Mr.Nivin Joy
Asst Professor,
Mechanical



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DEPARTMENT OF AERONAUTICAL ENGINEERING

Proudly Organizes

SIX DAYS VIRTUAL WORKSHOP

On

RECENT TRENDS IN AERONAUTICAL ENGINEERING

1st to 6th FEBRUARY 2021

PARTICIPATION CERTIFICATE

This is to certify that VARUN KUMAR has participated
in the Six Days Virtual Workshop on **RECENT TRENDS IN AERONAUTICAL ENGINEERING** organized by the
Department of Aeronautical Engineering, Sathyabama Institute of Science and Technology, Chennai from
1st to 6th February 2021.

Dr. P. BOOMA DEVI
HOD AERONAUTICAL

Dr. S. PRAKASH
DEAN MECHANICAL



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S.No	Roll Number	Name of the student
1	19S265039	ABILASH S
2	19S265030	AMAL. T
3	19S265001	AMARAPALLI DEEPAK
4	19S265002	J S ASWIN NAIR
5	19S265003	BANDUGULA SAITHARUN
6	19S265029	MUTHI GOPI
7	19S265032	HARISH M
8	19S265005	GAJJARJATINNITINKUMAR
9	19S261003	JAYA SETHU PRAGATHISH. J
10	19S265006	JOHN SATHIYANATHAN A
11	19S265026	KARTHICK B
12	19S261001	KRISHNA KANTH BS
13	19S265007	KRUPAL KODI
14	19S265008	LEKHA T
15	19S265028	LINGESH R
16	19S264026	MAGESH. S
17	19S265038	S MANOJ
18	19S261004	SURESH CHANDRA MEDISETTI
19	19S265010	MOULITHARAN M
20	19S261005	MURALI KRISHNA A
21	19S265011	NISHWIN ABISHEK K
22	19S265012	PRAVIN BHASKAR V
23	19S261006	PRIYADARSHINI DASH
24	19S265013	RAGUL R
25	19S265014	REHMATH BAZIL R M
26	19S265015	ROHITH. A
27	19S265016	SACHIN B
28	19S268001	SAHAYA SUSMI. S. K
29	19S261007	SAMEER TAJ SHAIKH
30	19S265035	SANJAY SHARMA R
31	19S265033	SANJAY V
32	19S265017	SANTHOSH KUMAR S
33	19S269001	SEENU G
34	19S265018	SHALU KUMARI S
35	19S265019	SHEIK UMAR J
36	19S261008	SHIVAANI V S
37	19S265020	SOMASUNDARESWARAN A
38	19S265021	SRI GANESH H
39	19S261009	SRIRAM R

40	19S265034	SUSIL JACKWYN KESHATH S
41	19S265022	TITTUS V
42	19S265023	MADHAVI LATA VANGARA
43	19S265031	VARUNKUMAR S
44	19S261010	YERRAMADHUBABU
45	19S265037	YOGITHA. B
46	19S265025	YUGENDRAN R
47	19S265036	MUSTAFA RAZA.T.K.S
48	19S265040	GODAVARTHI VAMSIKRISHNA
49	18SAE5013	ADITHYA M
50	18SAE1001	ANGADALA GANESH
51	18SAE5001	ANIRUDH ASHOK
52	18SAE5002	ATHYALA ANOUSHKA DEV
53	18SAE9003	BALASUBRAMANIY N R
54	18SAE1002	BHOYE HARSHAD BHARAT
55	18SAE5027	BOLLA DEEPTHI CHOWDARY
56	18SAE5014	CHODE SATYA MANIKUMAR
57	18SAE5020	DIPESH RANJAN
58	18SAE5026	GABRIELHOSEADOSS K
59	18SAE5003	GENESISGODWIN BS
60	18SAE5004	GOKULAKRISHNAN K
61	18SAE5016	GOKULAKANNAN V
62	18SAE1003	GURSHARAN KAUR PABLA
63	18SAE5011	HARIHARAN V
64	18SAE9001	INFANT RAINIA L
65	18SAE8001	JOSELINE X
66	18SAE5005	KARTHIKEYAN R
67	18SAE1004	KELLI KARTHIKEYAN
68	18SAE5006	KONCHADA UDAY KUMAR
69	18SAE5025	KUPPALASUBHRAMANYAKA RTHIK
70	18SAE1005	MAJELLA RIONA R
71	18SAE1006	MANGINA LEELA KRISHNA
72	18SAE5017	MOHAMED ANSAF
73	18SAE5007	MOHAMED ASIF S
74	18SAE1007	NAVALE RUPESH VILAS
75	18SAE9002	NEEJA R
76	18SAE5008	NEERAJA MEDIM
77	18SAE1010	KUDDRU NEVIS AMMAL RAJ
78	18SAE5029	NIKHIL SHANKAR ARISELLA



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Two days State level Virtual Workshop on

INTELLECTUAL PROPERTY RIGHTS

26th & 27th April 2021

Two days State-level Virtual Workshop on INTELLECTUAL PROPERTY RIGHTS was organized by the Department of Aeronautical Engineering & Internal Quality Assurance Cell (IQAC) Sathyabama Institute of Science and Technology, Chennai with Tamil Nadu State Council for Science and Technology on April 26th and April 27th, 2021. The opening ceremony was held on April 26th, 2021 at 10.00 am. It was inaugurated by Dr. R.Srinivasan, Member Secretary, Tamil Nadu State Council for Science and Technology, Chennai. In his inaugural speech, he spoke about the role of Intellectual Property Rights (IPRs) to improve quality in research and start-up. His talk covered a wide range of best practices through which the institution can transform the education system towards IPRs for particularly, GI tag for Udangudi Jaggery and Kodaikanal Malai Poundu. Dr. S.Prakash Dean, School of Mechanical Engineering, Sathyabama Institute of Science and Technology delivered a welcome address. Dr. T. Sasipraba, Vice-Chancellor, Sathyabama Institute of Science and Technology, delivered the presidential address with the theme of the workshop and the objectives behind organizing the workshop. Dr. T. Sasipraba, Vice-Chancellor, Sathyabama Institute of Science and Technology, Chennai gave some valuable suggestions for the creation, continuity or sustenance and maintenance of IPRs in Higher Education Institutions. Sathyabama Institute of Science and Technology has to ensure continuous improvement in all the IPRs aspects of an institution and also assure the accountability of the institution for its quality to the stakeholders. There were Six Technical Sessions in the workshop excluding Inaugural Session and Valedictory Session. The workshop was witnessed by 73 participants from various institutions in India.



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Session I

The First Session was addressed by Mr. A. Raja, Assistant Controller, IPR Office, Chennai. He delivered his deliberation on the Overview of IPRs, Components of IPRs, and Importance of IPRs awareness. He elaborated with practical examples of Novelty, Intensive steps, and Industrial Applicability.

Session II

The Second Session was presented by Mrs. N. Priyadarshini, IP Analyst, CIPR, Anna University, Chennai. Her reflections were on IPR challenges in Copy Rights and Trademarks. She highlighted on the various case studies like sardarbuksh, Cocacola, Saravana Bhavan, Amul India, and Aachi towards Trademarks and Copy Rights.

Session III

The Third Session was presented by Mr. Thallappakka Venkata Madhu Sudhan, Deputy Controller (Rtd), IPR Office, Chennai. He briefed the Patentability Criteria with Idea, Innovation, and Invention. He also gave some highlights of challenges and expectations in Patent Claims

Session IV & V

Further, Dr. A Balaji Ganesh, Dean (R&D), Qualified Patent agent, Velammal Engineering College has presented session topic "Effective Patent Drafting". He also emphasized that there is a good prospect for Patent Drafting. He covered the title of the patent, prior art, objectives, summary of the invention, and patent claims.

Session VI

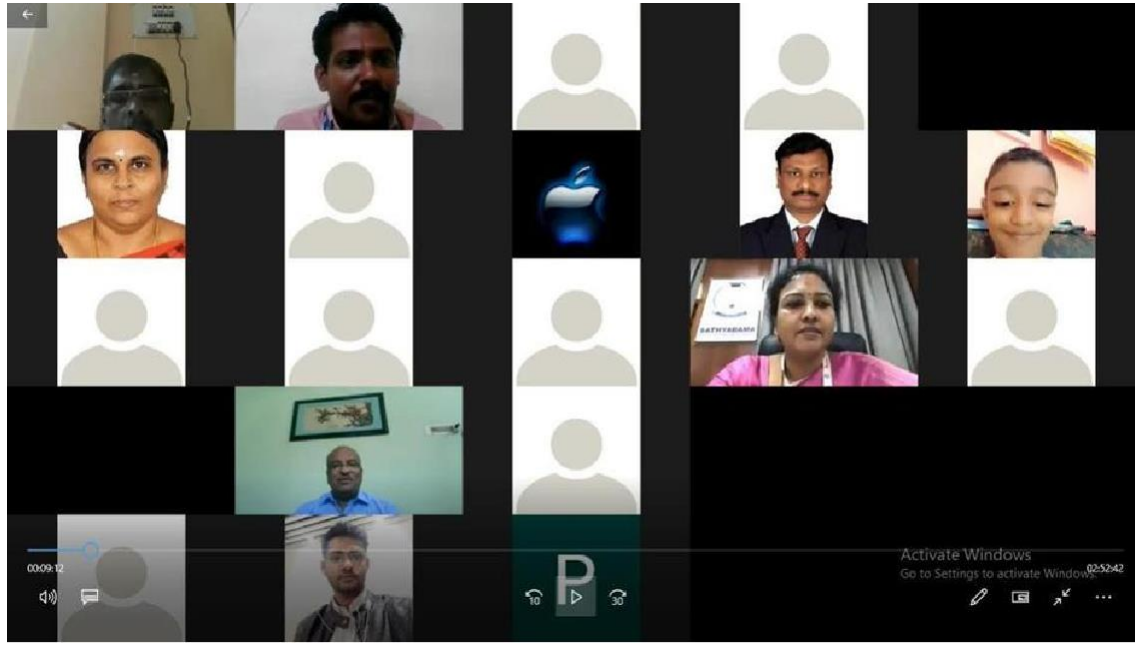
Further, Dr. Sundaram Seshadri, Adviser, TBI, Sathyabama Institute of Science and Technology has presented the session topic "Higher Educational Institute Innovation Eco-System". He spoke on other dimensions of the innovation ecosystem. He also gave some highlights of challenges and expectations in the innovation ecosystem.



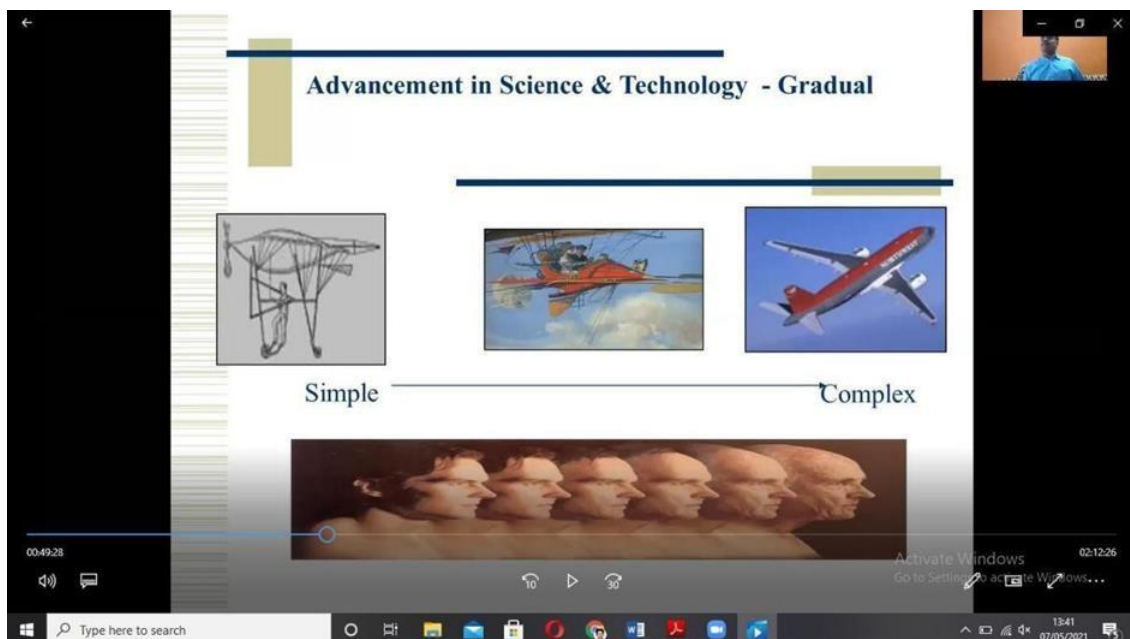
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PHOTO GALLERY - 26th April 2021



**Inaugural Address by Dr. R.Srinivasan, Member Secretary, Tamil Nadu State Council
for Science and Technology**



**Mr. A. Raja, Assistant Controller, IPR Office, Chennai Addressing Delegates in
Technical Session**



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Sensitisation on IPRs for Professional innovators (Online)

Trademarks and Copyrights

creations of the mind

N. Priyadarshini
IP Analyst/ Patent Agent
Centre for Intellectual Property Rights
Anna University, Chennai – 600 025
E-MAIL: ipr@annauniv.edu
Contact No: 044 – 22358577

Mrs. N. Priyadarshini, IP Analyst, CIPR, Anna University Addressing Delegates in Technical Session

ABOUT PATENT RIGHT

- Patent right is a monopoly right which prohibits other from manufacturing, selling, offer to sell and importing the said patented invention for a period of 20 years from the date of filing.
- Patent right is a territorial grant.
- Patent right is exchanged in lieu of full disclosure.

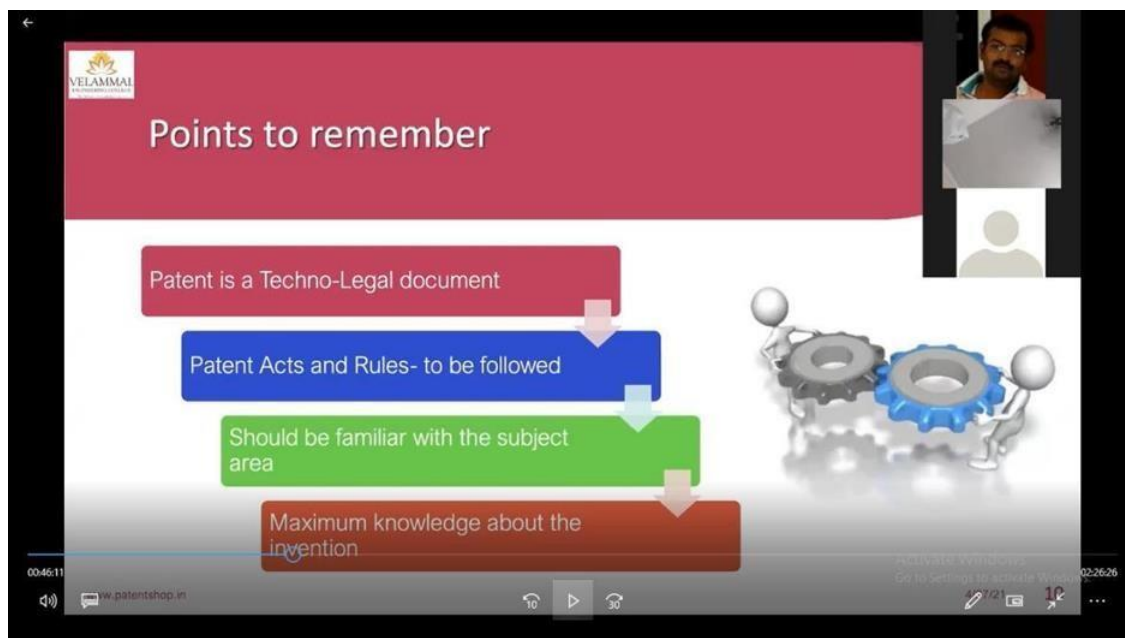
Mr. Thallappakka Venkata Madhu Sudhan, Deputy Controller (Rtd), IPR Office, Addressing Delegates in Technical Session



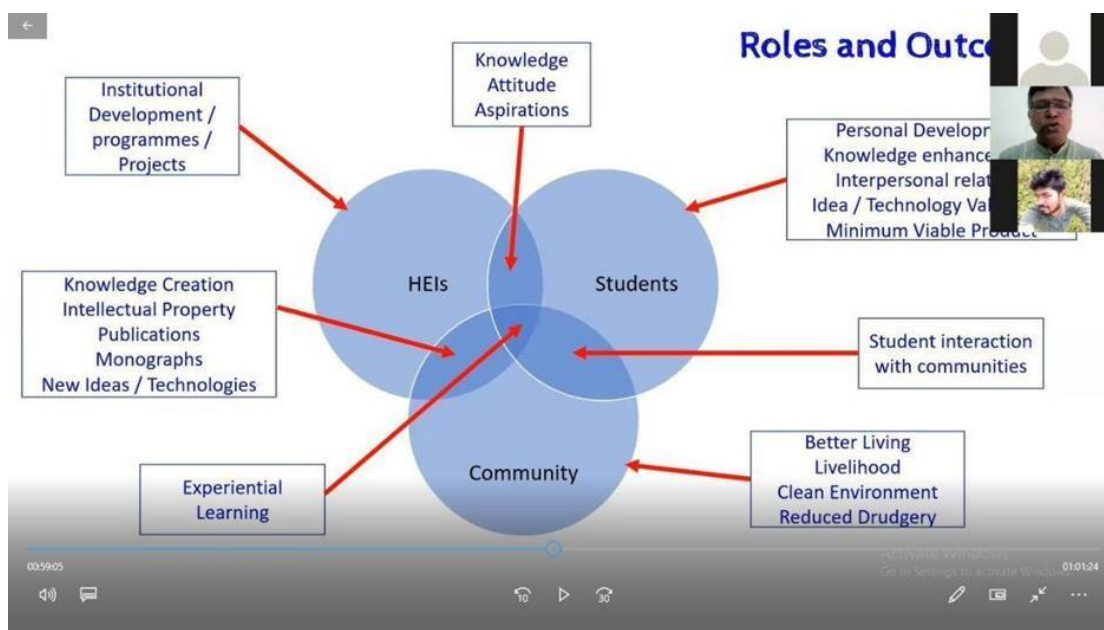
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PHOTO GALLERY - 27th April 2021



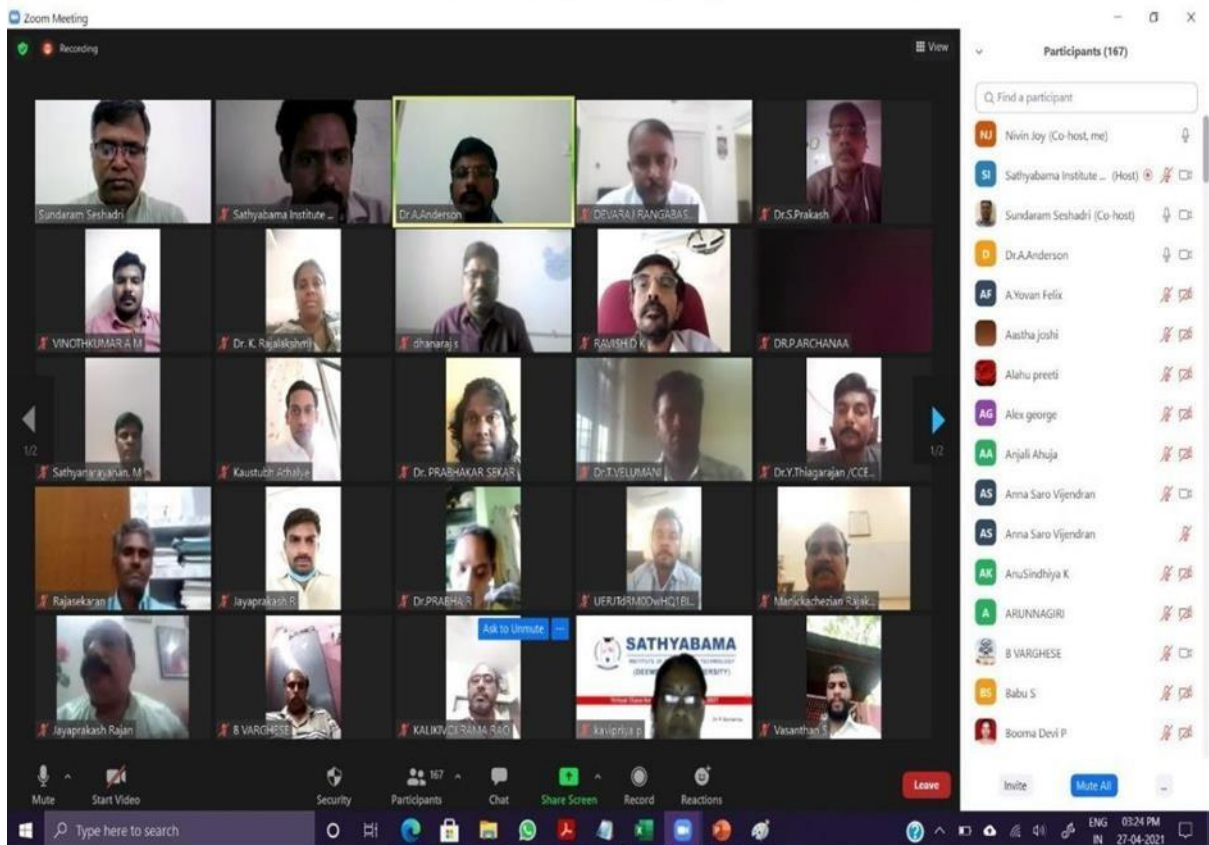
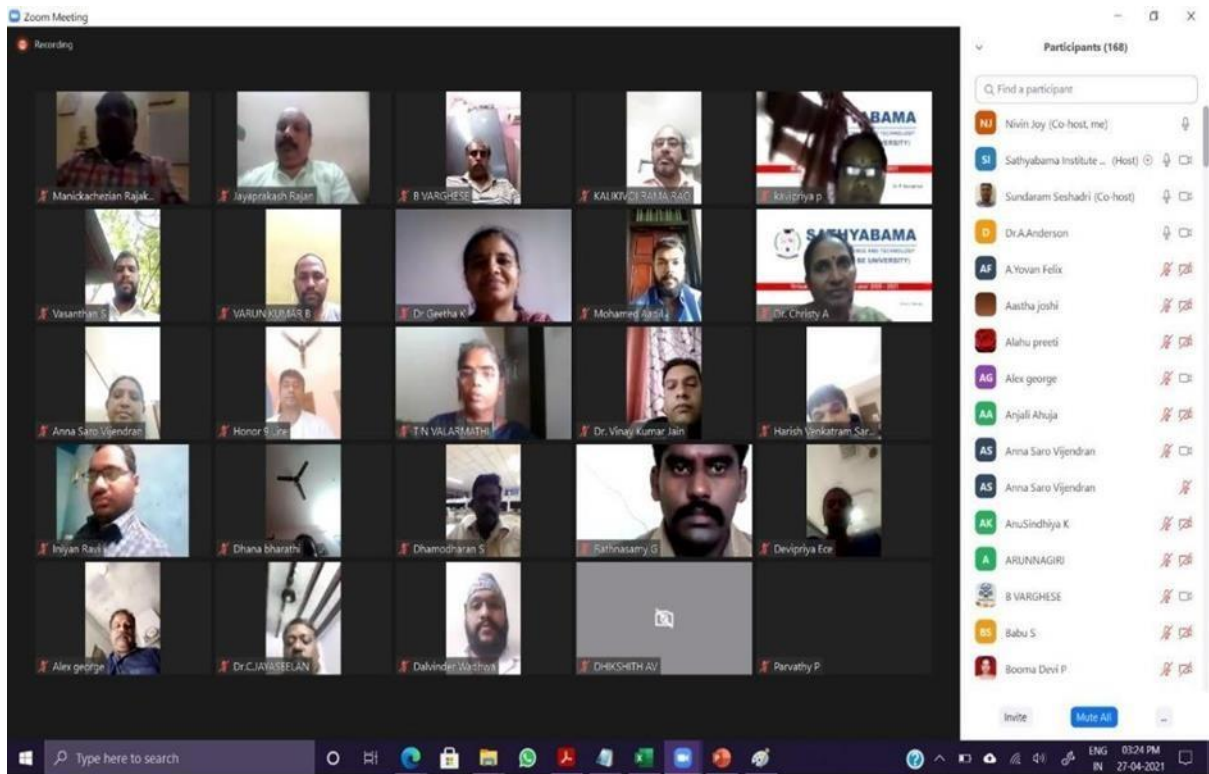
Dr. A Balaji Ganesh, Dean (R&D), Qualified Patent agent, Velammal Engineering College
Addressing Delegates in Technical Session



Dr. Sundaram Seshadri, Adviser, TBI, Sathyabama Institute of Science and Technology
Addressing Delegates in Technical Session



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Delegates in Group Photo



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Brochure

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Chancellor

Dr. Marie Johnson
President

Ms. Maria Bernadette Tamilarasi Johnson
Vice President

Dr. R. Srinivasan
Member Secretary Tamil Nadu State Council for Science and Technology

CHAIRPERSON & CONVENOR
Dr. T. Sasipraba, Vice Chancellor

ORGANIZING COMMITTEE
Dr. Anima Nanda, Coordinator, IQAC
Dr. S. Prakash, Dean, School of Mechanical Engineering
Dr. A. Anderson, HOD Aero (Incharge)

UNDER THE GUIDANCE OF
Dr. E. Loganathanmugan, Pro VC
Dr. Wilson Arun, Pro VC
Dr. S. S. Rao, Registrar
Dr. B. Sheela Rani, Director Research
Dr. G. Sundar, Director Administration
Dr. S. Jani Sabasti Prabu, COE

CO-ORDINATORS
Mr. R. Raja Bantha Nayas
Assistant Professor, School of Mechanical Engineering
Mr. Nivin Joy
Assistant Professor, School of Mechanical Engineering

Registration Details

Registration Fee : FREE
Last date for Registration : 24.04.2021

Click and Register in the following link:
<https://forms.gle/442Ap6BgtSAyX88>

DISTINGUISHED SPEAKERS
Shri. A. Raja,
Assistant Controller, IPR office, Chennai

Mrs. N. Priyadarshini,
IP Analyst, IPR, Anna University, Chennai

Mr. Thallappa Venkata Madhu Sudhan,
Deputy Controller (Rtd), IPR Office, Chennai

Dr. A. Balaji Ganesh,
Dean (R&D), Qualified Patent agent,
Velammal Engineering College

Dr. Sundaram Seshadri, Coordinator
TBI, Sathyabama Institute of S&T.

Scan to Register

For any query contact:
Mr. Raja - 99526 99572
Mr. Nivin - 98848 43539
Dr. Anderson - 99402 23023

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www.sathyabama.ac.in

TNSCST

TAMILNADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

PATENT INFORMATION CENTRE
Govt. of Tamil Nadu, Chennai

in collaboration with

Department of Aeronautical Engineering & Internal Quality Assurance Cell (IQAC)

SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY
(Deemed to be University)

26th & 27th APRIL 2021

Two-day National Level Virtual Workshop

on

Sensitization on IPRs for Professional Innovators

Celebrating World Intellectual Property Day



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Theme

IPRs are considered as a barometer of research and development (R&D) activities in Universities, Institutes and Industries worldwide. Thus, creating awareness among faculty and budding researchers is need of the time encouraging them to file patents, copyright, trademarks, technology transfer, national/foreign direct investments and also helps in technological development of university and industrial sector. Today there is a dire need for the technology businesses, start-ups and academic Institutions focusing on research to understand and become aware of the key issues and recent developments in IPR related to technology segments. The workshop will cover on Fundamental Aspects of IPRs, Indian Patent Acts and Rules, Best Practices in Patent Filings in India, Hands on training on Patent Drafting, Forms and Fees Drafting Procedures, Case Studies and Analysis. It is essential to ensure whether our specific idea is unique or not by investigating domestic as well international patents.

Program Outcomes

The workshop aims to provide an overview on IPR to the graduates and professionals and bring out the techno legal professionals. The ultimate objective of this workshop is to create awareness among faculty and research scholars attracting and encouraging them to probe for possibility of generating IPR from their research work prior to going for publication of the research work, which would be helpful for Institutions to improve ranking position. Through this workshop the participants will be able to have a better understanding of the following issues/concepts.

- ❖ Protecting technical innovation/using patents and patent information for R&D.
- ❖ Patent Drafting
- ❖ Copy Right and Trade Marks

IP, R&D and knowledge transfer with special reference to universities and public research.

The Expected outcome of workshop is to designing the IPR Learning Landscape. The topics covered in the workshop are designed to rig up the institutions to face the IPR challenges in this 21st century.

Target Audience

Faculties from Engineering Colleges, Polytechnics and Arts, Science Colleges, Industry Practitioners, Research Scholars and PG Scholars

About Sathyabama

Sathyabama Institute of Science and Technology is an Academic and Research Universities that offers various programmes in various fields of Engineering, Science, Dentistry, Law and Nursing. It has been Accredited with Accreditation and Assessment Council (NAAC). Its rankings and ratings are excellent at National and Inter 2020, Sathyabama Institute of Science and Technology position among the Universities in India by the National Framework (NIRF), Government of India. NIRF Sathyabama in the top 50 positions and this is the Institution is receiving this recognition. Sathyabama Technology is steered towards success under the leadership of Mrs. Sathya Johnson and President Dr. Marie Johnson. The Institute has undertaken various sponsored projects funded by various organizations and also successfully conducted non-profit projects through 18 village Resource Centers all over the state.

About TNSCST

The Tamil Nadu State Council for Science and Technology is a liaison between the Government of India and the State Government to supervise and conduct successful research by giving unemployed and economically backward researchers with training and inculcating quality research. The Council operates with various Colleges, Universities and educational organizations, features of good research and provides opportunities to individuals.

In order to facilitate Intellectual Property Rights, the Patent Centre has been established at the Tamil Nadu State Council for Science and Technology. The Centre handles enquiries on IPR, creates IPR awareness among Various Universities/ Institutes of Higher Education and provides State with support of Department of Science & Technology, New Delhi to provide facilitation services regarding intellectual property especially to Science and Technology community. All researchers, innovators, R&D financial institutions, business entrepreneurs, non-government organizations (NGOs) and facilities of TNSCST's Patent Information Centre

THEME

IPRS are considered as a barometer research and development (B&D) activities in Universities, Institutes and Industries worldwide. Thus, creating awareness among faculty and budding researchers is need of the time encouraging them to file patents, copyright, trademarks, technology transfer, national/foreign direct investments and also helps in technological development of university and industrial sector. Today there is a dire need for the technology businesses, start-ups and academic Institutions focusing on research to understand and become aware of the key issues and recent developments in RR, related to technology segments. The workshop will cover on Fundamental Aspects of IRBs Indian Patent Acts and Rules, Best Practices in Patent Filings in India, Hands on training on Patent Drafting, Forms and Fees Drafting Procedures, Case Studies and Analysis. It is essential to ensure whether our specific idea is unique or not by investigating domestic as well international patents.



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Programme Outcome

The workshop aims to provide an overview on IPB to the graduates and professionals and bring out the techno legal professionals. The ultimate objective of this workshop is to create awareness among faculty and research scholars attracting and encouraging them to probe for the possibility of generating IPR from their research work prior to going for the publication of the research work, which would be helpful for Institutions to improve ranking position. Through this workshop, the participants will be able to have a better understanding of the following issues/concepts.

- Protecting technical innovation/using patents and patent information for R&D.
- Patent Drafting
- Copyright and Trade Marks

About Sathyabama

Sathyabama Institute of Science and Technology is one of South India's premi Academic and Research Universities that offers mult-disciplinary academic programmes in various fields of Engineering Science. Technology. Management Dentistry, Law and Nursing. It has been Accredited with A Grade by the National Accreditation and Assessment Council (AAC) Sathyabama standing in rankings and ratings are excellent at National and International level. For the year 2020, Sathyabama Institute of Science and Technology has been ranked in 39th position among the Universities in India by the National Institutional Ranking Framework (BE) Government of India. BE has consistently ranked Sathyabama in the top 50 positions and this is the fifth consecutive year the Institution is receiving this recognition Sathyabama Institute of Science and Technology is steered towards success under the leadership of Chancellor Dr. Mariazeena Johnson and President Dr. Marie Johnson. Sathyabama has undertaken various sponsored projects funded by both International & National organizations and also successfully conducted non- formal education programs through 18 village Resource Centers all over the state.

About TNSCST

The Tamil Nadu State Council for Science and Technology (INSCAT) serves as liaison between the Government of India and the State Government to initiate, supervise and conduct successful research by giving opportunities to rural unemployed and economically backward

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researchers with the sole aim of promoting and inculcating quality research. The Council operates with maximum utility towards SKARSDising Colleges, Universities and educational organizations by inculcating features of good research and provides opportunistic windows for research-savvy individuals.

In order to facilitate Intellectual Property Rights, the Patent Information Centre has been established at the Tamil Nadu State Council for Science & Technology, Chennai. The Centre handles enquiries on IRR, creates IRR awareness, establish RR cells in Various Universities/ Institutes of Higher Education and promote IRR filings within the State with support of Department of Science & Technology, Government of India. New Delhi to provide facilitation services regarding intellectual property to everyone especially Science and Technology community. All scientists, technologists, researchers, innovators, financial institutions, R&D establishments, business, entrepreneurs, non-government organizations (NGOs) and individuals utilize the facilities of JNSCSTS Patent Information Centre (PIC).



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Date/Day/Time	10.00 am to 11.30 am	11.45 am to 1.30 pm	2 pm to 3.30 pm
26.04.21 (Monday)	Mr. A. Raja, Assistant Controller, IPR Office, Chennai <i>IPR Awareness</i>	Mrs. N. Priyadarshini, IP Analyst, CIPR, Anna University, Chennai <i>Copy Rights and Trade Marks</i>	Mr. Thallappakka Venkata Madhu Sudhan, Deputy Controller (Rtd), IPR Office, Chennai <i>Patentability Criteria</i>
27.04.21 (Tuesday)	Dr A Balaji Ganesh, Dean (R&D), Qualified Patent agent, Velammal Engineering College <i>Patent Drafting</i>	Dr A Balaji Ganesh, Dean (R&D), Qualified Patent agent, Velammal Engineering College <i>Claims and Novelty</i>	Dr. Sundaram Seshadri, Coordinator TBI, Sathyabama Institute of Science and Technology <i>Higher Educational Institution Innovation Ecosystem as Drivers of IPRs Development</i>



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**TAMIL NADU STATE COUNCIL FOR
SCIENCE AND TECHNOLOGY**

Govt. of Tamil Nadu, Chennai-25

&

**SATHYABAMA
INSTITUTE OF SCIENCE AND TECHNOLOGY (SIST)**

Cordially invite you for the inaugural function of

**A TWO-DAY STATE LEVEL VIRTUAL WORKSHOP
on
INTELLECTUAL PROPERTY RIGHTS**

Welcome Address	:	Dr. S. Prakash Dean, School of Mechanical, SIST
Presidential Address	:	Dr. T. Sasipraba Vice Chancellor, SIST
Chief Guest Address	:	Dr. R. Srinivasan Member Secretary, Tamil Nadu State Council for Science and Technology
Vote of Thanks	:	Dr. Anima Nanda Coordinator, IQAC, SIST

26.04.21 at 10 am

--- Virtual Mode ---

Celebrating World Intellectual Property Day

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TAMILNADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY
Govt. of Tamil Nadu, Chennai
&
SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY (SIST)

CERTIFICATE

This certificate is awarded to Dr./Mr./Ms. MOHAMMED AZHARUDEEN J
of MOHAMED SATHAK ENGINEERING COLLEGE for
participating in the two-days State Level Virtual Technical Workshop on 'INTELLECTUAL PROPERTY
RIGHTS' conducted during 26th and 27th of April, 2021.


Dr. T. SASIPRABA
Vice Chancellor
SIST


Dr. R. SRINIVASAN
Member secretary
TNSCST



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S.No	Roll Number	Name of the student
1	19S265039	Abilash S
2	19S265030	Amal. T
3	19S265001	Amarapalli Deepak
4	19S265002	J S Aswin Nair
5	19S265003	Bandugula Saitharun
6	19S265029	Muthi Gopi
7	19S265032	Harish M
8	19S265005	Gajjarjatinnitinkumar
9	19S261003	Jaya Sethu Pragathish. J
10	19S265006	John Sathiyathan A
11	19S265026	Karthick B
12	19S261001	Krishna Kaanth Bs
13	19S265007	Krupal Kodi
14	19S265008	Lekha T
15	19S265028	Lingesh R
16	19S264026	Magesh. S
17	19S265038	S Manoj
18	19S261004	Suresh Chandra Mediseti
19	19S265010	Moulitharan M
20	19S261005	Murali Krishna A
21	19S265011	Nishwin Abishek K
22	19S265012	Pravin Bhaskar V
23	19S261006	Priyadarshini Dash
24	19S265013	Ragul R
25	19S265014	Rehmath Bazil R M
26	19S265015	Rohith. A
27	19S265016	Sachin B
28	19S268001	Sahaya Susmi. S. K
29	19S261007	Sameer Taj Shaikh
30	19S265035	Sanjay Sharma R
31	19S265033	Sanjay V
32	19S265017	Santhosh Kumar S
33	19S269001	Seenu G
34	19S265018	Shalu Kumari S
35	19S265019	Sheik Umar J
36	19S261008	Shivaani V S

37	19S265020	Somasundareswaran A
38	19S265021	Sri Ganesh H
39	19S261009	Sriram R
40	19S265034	Susil Jackwyn Keshath S
41	19S265022	Tittus V
42	19S265023	Madhavi Lata Vangara
43	19S265031	Varunkumar S
44	19S261010	Yerramadhubabu
45	19S265037	Yogitha. B
46	19S265025	Yugendran R
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64	18SAE9001	Infant Rainia L
65	18SAE8001	Joseline X
66	18SAE5005	Karthikeyan R
67	18SAE1004	Kelli Karthikeyan
68	18SAE5006	Konchada Uday Kumar
69	Mohammed Azharuddin Mohammed Sathak College	
70	Ms.Fazzilla , Hits	
71	Manigandan, HITS	
72	Sharvesh, HIITS	
73	Saravanan, Veltech	



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TWO-DAYS WEBINAR PROGRAM

on

“FUNDAMENTALS OF CFD

June 01st and June 02nd, 2020

Two days Webinar on FUNDAMENTALS OF CFD was organized by the Department of Aeronautical Engineering & Mechanical Engineering Sathyabama Institute of Science and Technology, Chennai with Skill-Lync, Chennai on June 01st and June 02nd, 2020.

The opening ceremony was held on June 01st at 04.00 pm. Mr. G. Madhan Kumar, Assistant Professor, Department of Aeronautical Engineering, Sathyabama Institute of Science and Technology delivered a welcome address.

Dr. G. Arun Kumar, Head of the Department of Mechanical Engineering, Sathyabama Institute of Science and Technology, delivered the presidential address with the theme of the workshop and the objectives behind organizing the workshop.

There were two Technical Sessions in the workshop excluding Inaugural Session and Valedictory Session. The workshop was witnessed by 104 participants from various institutions in India.



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Session I

The First Session was addressed by **Mr Koushik, CFD-Engineer, Skill-Lync, Chennai**. He delivered his deliberation on the Overview of Computational Mechanics and **the** Importance of learning CFD. He elaborated with practical examples of Intensive steps in computational modeling and Industrial Applicability.

Session II

The second session was addressed by **Mr. Surya Narayana Panneerselvam, Co-founder, Skill-Lync, Chennai** delivered his reflections on the Governing equations of fluid flow problems. He elaborated about the incompressible and compressible flow Navier-Stokes equation applicable for Aircraft wing design and analysis.

Session III

The third session was presented by **Mr. Pragadeesh, CFD-Analyst, Skill-Lync, Chennai**. He had presented his reflections were on Computational Analysis for 1D fluid flow problems. He highlighted various case studies like grid generation for 1D flow problems with increasing the edge sizing and number of nodes and elements during meshing.

Session IV

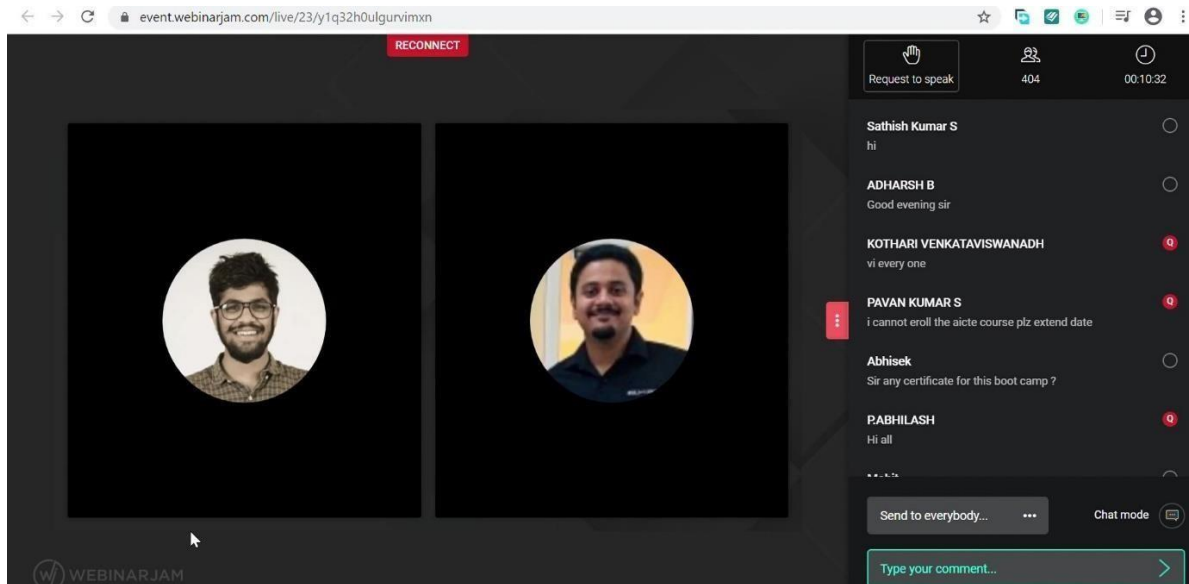
The Fourth Session was presented by **Mr. Pragadeesh, CFD-Analyst, Skill-Lync, Chennai**. He had presented his reflections were on steady-state Analysis and transient flow analysis for 1D fluid flow problems. He highlighted on various case studies like boundary conditions for 1D flow problems with increasing the number of iterations for each time step.



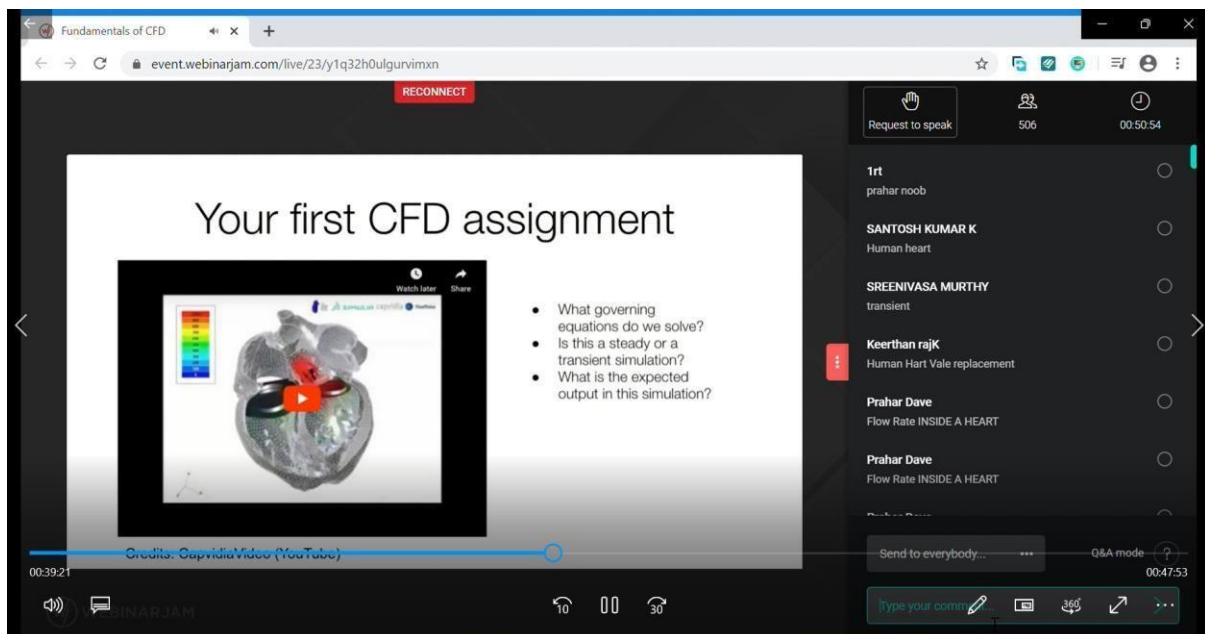
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PHOTO GALLERY - 01st June 2020



**Welcome Address-Introductory talk
by Mr. Koushik, Skill-Lync**



**Mr. Surya Narayanan Panneerselvam
post reflections to students.**



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PHOTO GALLERY – 02nd June 2020

The slide shows the derivation of the grid differencing scheme. It includes the following equations:

$$\frac{\partial^2 T}{\partial x^2} + \frac{\partial^2 T}{\partial y^2} = 0$$
$$T_{i+1} = T_i + \frac{\partial T}{\partial x} \Delta x + \frac{\partial^2 T}{2 \Delta x^2} \Delta x^2$$
$$T_{i-1} = T_i - \frac{\partial T}{\partial x} \Delta x + \frac{\partial^2 T}{2 \Delta x^2} \Delta x^2$$
$$T_{i+1} + T_{i-1} = 2T_i + \frac{\partial^2 T}{\Delta x^2} \Delta x^2$$

The diagram shows a grid with points T_{i-1} , T_i , and T_{i+1} along the x-axis.

**Mr. Pragadeesh explained about the
griddifferencing scheme**

The slide is titled "Great! So let us build a CFD solver". It contains the following content:

Great! So let us build a CFD solver

$$\frac{\partial^2 T}{\partial x^2} + \frac{\partial^2 T}{\partial y^2} = 0$$

The diagram shows a grid with points TL, TP, TR, and TB. The grid spacing is Δx and Δy .

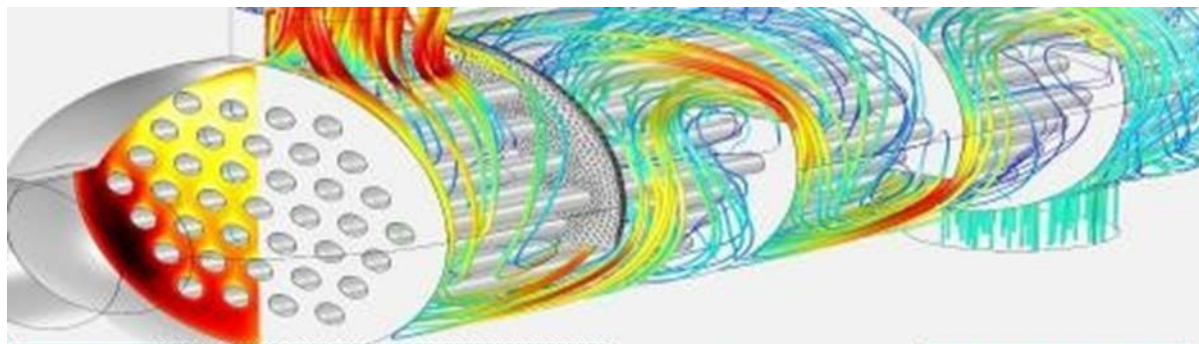
$$\frac{\partial^2 T}{\partial x^2} = (TL - 2TP + TR) / \Delta x^2$$
$$\frac{\partial^2 T}{\partial y^2} = (TL - 2TP + TR) / \Delta y^2$$

Solve for TP!!

**Mr. Pragadeesh explained about the
CFDsolver**



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**Webinar on
FUNDAMENTALS OF CFD**

**MECH 4.0
TECHNICAL
WEBINAR SERIES**

**1st & 2nd JUNE 2020
4.00 PM to 6.00 PM**

In association with

Skill Lync
SKILL LYNC

SESSIONS HANDLED BY



Mr. Surya Narayanan PaneerSelvam
Co-founder
Skill - Lync

CONVENERS

Mr.Madhan Kumar, Asst Prof, Aero
Dr.P.Booma Devi, HOD Aero
Dr.G.Arunkumar, HOD Mech

Register at:

bit.ly/CFDFundamentalsWebinar

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Dr.S.Prakash, Dean Mech
Dr.Bupesh Raja, HOD Auto
Mr.Nivin Joy, Asst Prof, Mech

Organized By:
School of Mechanical Engineering



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Two Days Webinar on FUNDAMENTALS OF CFD

(Prosperous for World Intellectual Property Day 26th April 2021)

Schedule

Date/Day/Time	04.00 pm to 05.00 pm	06.00 pm to 07.00 pm
01.06.20 (Monday)	Mr. Kowshik, Skill-Lync, Chennai <i>Introduction to CFD</i>	Mrs. Suryanarayanan.P, Co-Founder, Skill-Lync, Chennai. <i>Governing Equations of CFD</i>
02.06.20 (Tuesday)	Mr. Pragadeesh, CFD-Analyst, Skill-Lync, Chennai <i>Grid Generation Tutorial</i>	Mr. Pragadeesh, CFD-Analyst, Skill-Lync, Chennai <i>Steady and Transient flow Analysis</i>

Welcome Address: Dr. S. Prakash

Dean School of Mechanical, SIST

Presidential Address: Dr. G. Arun Kumar

HOD, Mechanical, SIST

Chief Guest Address: Mr. Surya Narayanan Panneerselvam

Co-founder,

Skill-Lync

Chennai

Vote of Thanks: Mr. G. Madhan Kumar

AP, Department of Aeronautical, SIST



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MECH 4.0 TECHNICAL WEBINAR SERIES

in
FUNDAMENTALS OF CFD

In association with

SKILL LYNC

1st & 2nd JUNE 2020

PARTICIPATION CERTIFICATE

This is to certify that KRISHNA KAANTH BS has actively participated in
 the webinar on **FUNDAMENTALS OF CFD** organized by the School of Mechanical Engineering,
 Sathyabama Institute of Science and Technology, Chennai on 1st and 2nd June 2020.

G. Madhan Kumar
Mr.G.MADHAN KUMAR
 CONVENER

Mr. Nivin Joy
Mr.NIVIN JOY
 CONVENER

S. Prakash
Dr.S.PRAKASH
 DEAN MECHANICAL

S.No	Roll.No.	Student Name
1	17SAE517	Adharsh Leewvan.L
2	17SAE801	Afsal.K
3	17SAE001	Aldin Revan Paul V
4	17SAE501	Anish Soloman Tigga
5	17SAE502	Arvind Siddharth J
6	17SAE503	Arjith Praison
7	17SAE518	Avinashkumar K
8	17SAE901	Carthy E
9	17SAE902	Ravurinagalakshmichittitalli
10	17SAE015	Parmar Daniel Samuel
11	17SAE008	Durga Prasad G
12	17SAE006	Emmanuel Wilson P
13	17SAE007	Ezra Sylvan Raj P
14	17SAE504	Girish Kumar G S
15	17SAE505	Gokulakrishnan S
16	17SAE513	Vichare Hrithik Shirish
17	17SAE021	Saladi Issac
18	17SAE802	Kinnake Jai Manoj
19	17SAE020	Komesh S
20	17SAE028	Yelugubanti Leelaprasad
21	17SAE803	Mannan Ajitsingh Sukhpalsingh
22	17SAE013	Mudraboina Mohan Rao
23	17SAE516	Mugesh D
24	17SAE014	Naga Bhushana Rao Telagathoti
25	17SAE012	Mopidevi Narasimhanaidu
26	17SAE0029	Nikhil Kumar

27	17SAE019	Nikita S
28	17SAE506	Nitheeshkumar S
29	17SAE025	Telagamsetti Pavan Sai
30	17SAE003	Bashetty Pavan
31	17SAE017	Pulkit Bhardwaj
32	17SAE010	Geddada Raghava Raju
33	17SAE018	Ravi Kumar Singh
34	17SAE026	Veeranki Sai Tharun
35	17SAE507	Sairam Suraj
36	17SAE002	Bantumilli Sarath Chandra
37	17SAE509	Sasidhar Rajan.G.M
38	17SAE022	Shlok Srivastava
39	17SAE004	Chougule Shrawani Shriprasad
40	17SAE510	Shreejesh Murugesh
41	17SAE511	Sonu Parihar
42	17SAE023	Sowmya S
43	17SAE005	Danaboyina Sri Vardhan
44	17SAE024	Subhash P Kumar
45	17SAE326	Sundar
46	17SAE805	Vaishnavi B Iyer
47	17SAE011	Koduri Vasanth
48	17SAE009	Gajula Veerabhadra Rao
49	17SAE016	Pepakayala Vijaykumar
50	17SAE806	Vishwak Sen Vikram
51	17SAE027	Yokesh Vejay K R
52	17SAE508	Sanaboina Taraka Venkata Sai Vamsi



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54	18SAE5013	Adithya M	80	18SAE9002	Neeja R
55	18SAE1001	Angadala Ganesh	81	18SAE5008	Neeraja Medim
56	18SAE5001	Anirudh Ashok	82	18SAE1010	Kuddru Nevis Ammal Raj
57	18SAE5002	Athyala Anoushka Dev	83	18SAE5029	Nikhil Shankar Arisella
58	18SAE9003	Balasubramaniy N R	84	18SAE1009	Pattem Purnasekhar
59	18SAE1002	Bhoye Harshad Bharat	85	18SAE5015	Pothys M A
60	18SAE5027	Bolla Deepthi Chowdary	86	18SAE5009	Ragavendhar K A
61	18SAE5014	Chode Satya Manikumar	87	18SAE5018	Rohit Rathore
62	18SAE5020	Dipesh Ranjan	88	18SAE5022	Roopa Bj
63	18SAE5026	Gabrielhoseadoss K	89	18SAE5024	Saindankar Devang Kishor
64	18SAE5003	Genesisgodwin Bs	90	18SAE1008	Sakshar Ghosh
65	18SAE5004	Gokulakrishnan K	91	18SAE5023	M Sailesh Kumar
66	18SAE5016	Gokulakannan V	92	18SAE5012	Ven K Ata Subramanian
67	18SAE1003	Gursharan Kaur Pabla	93	18SAE5028	Yaparala Mallesh Babu
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74	18SAE5025	Kuppalasubhramanyakarthik	100	18SAE5027	Bolla Deepthi Chowdary
75	18SAE1005	Majella Riona R	101	18SAE5014	Chode Satya Manikumar
76	18SAE1006	Mangina Leela Krishna	102	18SAE5020	Dipesh Ranjan
77	18SAE5017	Mohamed Ansaf	103	18SAE5026	Gabrielhoseadoss K
78	18SAE5007	Mohamed Asif S	104	18SAE5003	Genesisgodwin



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Virtual Hands-on Training program and Live Demo
on
“3D Printing using Makerbot Method X 3D printer”

31st July 2020

One day Virtual Workshop on **3D Printing using Makerbot Method X 3D printer** was organized by the Department of Aeronautical Engineering & School of Mechanical Engineering Sathyabama Institute of Science and Technology, on July 31st, 2020.

The opening ceremony was held on June 31ST 2020 at 10.00 am. Dr. A. Anderson, Professor, Department of Aeronautical Engineering, Sathyabama Institute of Science and Technology delivered a welcome address.

Dr. P. Booma Devi, Head of the Department of Aeronautical Engineering, Sathyabama Institute of Science and Technology, delivered the presidential address with the theme of the workshop and the objectives behind organizing the workshop.

There were two Technical Sessions in the workshop excluding Inaugural Session and Valedictory Session. The workshop was witnessed by 142 participants from various institutions in India.



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Session I

The First Session was addressed by Mr. Abhishek Shette, Senior Application Engineer, Makerbot. He delivered his deliberation on Additive Manufacturing and its Methods, FDM, and its Real Product Development Applications. He elaborated with real-time product development applications.

Session II

The second session was addressed by Mr. Jagadish, Regional Manager, Makerbot. delivered his reflections on the Virtual Live Demo of Makerbot Method X 3D Printing Machine. He simulated the Makerbot 3D Printing Machine and explain about the manufacturing process involved in it.

At the end of technical sessions, Dr. P. Booma Devi, HOD, Dept of Aeronautical Engineering has given a Vote of Thanks.

Attachment:

- 1. Brochure/Schedule**
- 2. Model Certificate**



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BlakairBot
METHOD X
POWERED BY STRATAGYS

**ONE DAY VIRTUAL HANDS-ON TRAINING PROGRAMME ON
3D PRINTING**

Under AICTE's
MODERNISATION AND REMOVAL OF OBSOLESCENCE (MODROB) SCHEME

31st JULY 2020

Organized by
Centre for Excellence for Collaborative Product Design and Development
Department of Mechanical Engineering

In association with
Department of Aeronautical Engineering



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DEPARTMENT OF AERONAUTICAL ENGINEERING
ORGANIZES

ONE DAY VIRTUAL HANDS-ON TRAINING PROGRAMME ON
3D PRINTING
Under AICTE's
MODERNISATION AND REMOVAL OF OBSOLESCENCE (MODROB) SCHEME

Sessions Handled by:



Mr. ABHISHEK SHETTE
Senior Application Engineer, Makerbot
Topic: Additive Manufacturing and Its Methods, FDM and Its Real Product Development Applications

10.00 - 11.00 AM



Mr. JAGADISH
Regional Manager, Makerbot
Topic: Virtual Live Demo of Makerbot Method X 3D Printing Machine
[Project Ref No: P-No 9-02/88PD/MOD/PuB-03-12/2018-2019]

11.00 - 1.00 PM

July 31st 2020, Friday
10.00 AM-1.00PM

Zoom Meeting ID : **868 6247 9742**
Passcode : **12345**
bit.ly/SathyabamaMechWebinarseries

REGISTRATION FREE **A CERTIFICATE WILL BE ISSUED**

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Dr.Maria Johnson President	CONVENER	Mr.KaJa Rantha Navas Asst Professor, Aeronautical
Ms.Maria Bernadette Tomilason Johnson Vice President	Dr.S.Prakash Dean, Mechanical	

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S.No	Rol. No.	Student Name			
1	19S265039	Abilash S	27	19S265016	Sachin B
2	19S265030	Amal. T	28	19S268001	Sahaya Susmi. S. K
3	19S265001	Amarapalli Deepak	29	19S261007	Sameer Taj Shaikh
4	19S265002	J S Aswin Nair	30	19S265035	Sanjay Sharma R
5	19S265003	Bandugula Saitharun	31	19S265033	Sanjay V
6	19S265029	Muthi Gopi	32	19S265017	Santhosh Kumar S
7	19S265032	Harish M	33	19S269001	Seenu G
8	19S265005	Gajjarjatinnitinkumar	34	19S265018	Shalu Kumari S
9	19S261003	Jaya Sethu Pragathish. J	35	19S265019	Sheik Umar J
10	19S265006	John Sathiyathan A	36	19S261008	Shivaani V S
11	19S265026	Karthick B	37	19S265020	Somasundareswaran A
12	19S261001	Krishna Kaanth Bs	38	19S265021	Sri Ganesh H
13	19S265007	Krupal Kodi	39	19S261009	Sriram R
14	19S265008	Lekha T	40	19S265034	Susil Jackwyn Keshath S
15	19S265028	Lingesh R	41	19S265022	Tittus V
16	19S264026	Magesh. S	42	19S265023	Madhavi Lata Vangara
17	19S265038	S Manoj	43	19S265031	Varunkumar S
18	19S261004	Suresh Chandra Mediseti	44	19S261010	Yerramadhbabu
19	19S265010	Moulitharan M	45	19S265037	Yogitha. B
20	19S261005	Murali Krishna A	46	19S265025	Yugendran R
21	19S265011	Nishwin Abishek K	47	19S265036	Mustafa Raza.T.K.S
22	19S265012	Pravin Bhaskar V	48	19S265040	Godavarthi Vamsikrishna
23	19S261006	Priyadarshini Dash	49	18SAE5013	Adithya M
24	19S265013	Ragul R	50	18SAE1001	Angadala Ganesh
25	19S265014	Rehmath Bazil R M	51	18SAE5001	Anirudh Ashok
26	19S265015	Rohith. A	52	18SAE5002	Athyala Anoushka Dev
			53	18SAE9003	Balasubramaniy N R
			54	18SAE1002	Bhoye Harshad Bharat

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56	18SAE5014	Chode Satya Manikumar	102	17SAE007	Ezra Sylvan Raj P
57	18SAE5020	Dipesh Ranjan	103	17SAE504	Girish Kumar G S
58	18SAE5026	Gabrielhoseadoss K	104	17SAE505	Gokulakrishnan S
59	18SAE5003	Genesisgodwin Bs	105	17SAE513	Vichare Hrithik Shirish
60	18SAE5004	Gokulakrishnan K	106	17SAE021	Saladi Issac
61	18SAE5016	Gokulakannan V	107	17SAE802	Kinnake Jai Manoj
62	18SAE1003	Gursharan Kaur Pabla	108	17SAE020	Komesh S
63	18SAE5011	Hariharan V	109	17SAE028	Yelugubanti Leelaprasad
64	18SAE9001	Infant Rainia L	110	17SAE803	Mannan Ajitsingh Sukhpalsingh
65	18SAE8001	Joseline X			
66	18SAE5005	Karthikeyan R	111	17SAE013	Mudraboina Mohan Rao
67	18SAE1004	Kelli Karthikeyan	112	17SAE516	Mugesh D
68	18SAE5006	Konchada Uday Kumar	113	17SAE014	Naga Bhushana Rao Telagathoti
69	18SAE5025	Kuppalasubhramanyakarhik			
70	18SAE1005	Majella Riona R	114	17SAE012	Mopidevi Narasimhanaidu
71	18SAE1006	Mangina Leela Krishna	115	17SAE0029	Nikhil Kumar
72	18SAE5017	Mohamed Ansaf	116	17SAE019	Nikita S
73	18SAE5007	Mohamed Asif S	117	17SAE506	Nitheeshkumar S
74	18SAE1007	Navale Rupesh Vilas	118	17SAE025	Telagamsetti Pavan Sai
75	18SAE9002	Neeja R	119	17SAE003	Bashetty Pavan
76	18SAE5008	Neeraja Medim	120	17SAE017	Pulkit Bhardwaj
77	18SAE1010	Kuddru Nevis Ammal Raj	121	17SAE010	Geddada Raghava Raju
78	18SAE5029	Nikhil Shankar Arisella	122	17SAE018	Ravi Kumar Singh
79	18SAE1009	Pattam Purnasekhar	123	17SAE026	Veeranki Sai Tharun
80	18SAE5015	Pothys M A	124	17SAE507	Sairam Suraj
81	18SAE5009	Ragavendhar K A	125	17SAE002	Bantumilli Sarath Chandra
82	18SAE5018	Rohit Rathore	126	17SAE509	Sasidhar Rajan.G.M
83	18SAE5022	Roopa Bj	127	17SAE022	Shlok Srivastava
84	18SAE5024	Saindankar Devang Kishor	128	17SAE004	Chougule Shrawani Shriprasad
85	18SAE1008	Sakshar Ghosh			
86	18SAE5023	M Sailesh Kumar	129	17SAE510	Shreejesh Muruges
87	18SAE5012	Ven K Ata Subramanian	130	17SAE511	Sonu Parihar
88	18SAE5028	Yaparala Mallesh Babu	131	17SAE023	Sowmya S
89	19SLAE801	Pulususriramkarthik	132	17SAE005	Danaboyina Sri Vardhan
90	17SAE517	Adharsh Leewvan.L	133	17SAE024	Subhash P Kumar
91	17SAE801	Afsal.K	134	17SAE326	Sundar
92	17SAE001	Aldin Revan Paul V	135	17SAE805	Vaishnavi B Iyer
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94	17SAE502	Arvind Siddharth J	137	17SAE009	Gajula Veerabhadra Rao
95	17SAE503	Arjith Praisson	138	17SAE016	Pepakayala Vijaykumar
96	17SAE518	Avinashkumar K	139	17SAE806	Vishwak Sen Vikram
97	17SAE901	Carthy E	140	17SAE027	Yokesh Vejay K R
98	17SAE902	Ravurinagalakshmittitalli	141	17SAE508	Sanaboina Taraka Venkata Sai Vamsi
99	17SAE015	Parmar Daniel Samuel			
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