

**Women Empowerment through Science and Technology
- WEST2016 *Futuristic India***

A final report

in partial-aid funded by

SERB (Seminar/ Symposia Scheme)

Department of Science and Technology

SUBMITTED BY



**Dr.V.Kavitha
Convener-WEST2016**

Department of Chemistry
Sathyabama Institute of Science and Technology
Jeppiaar Nagar, Rajiv Gandhi Salai
Sholinganallur, Chennai 600 119
Tamil Nadu
Ph: 044-24503145

02nd Jan 2017.

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SATHYABAMA UNIVERSITY
(Established under Section 3 of UGC Act, 1956)
(A CHRISTIAN MINORITY INSTITUTION)
Declared as Category "A" University by MHRD, Government of India
Jeppiaar Nagar, Rajiv Gandhi Salai, Chennai - 600119.



SCHOOL OF SCIENCE AND HUMANITIES

PG & RESEARCH DEPARTMENT OF CHEMISTRY

Cordially invites for one day National Level

WORKSHOP ON

Women Empowerment through Science and Technology
(WEST-2016)- *Futuristic India*

to be held on 2nd November 2016 in association with
**Science and Engineering Research Board
(SERB)**

VENUE: ADMIN. AUDITORIUM (GF)



About the department

The Department of Chemistry is one of the departments started right from the inception of Sathyabama Institute of Science and Technology, Chennai in the year 1987. It has well-established laboratories equipped with sophisticated instruments, which fulfill the needs of the PG and Ph.D. students. The department at present has 13 faculty members and around 20 Ph.D. students. The department has undertaken many sponsored and collaborative Research & Development projects funded by various national organizations including one with IGCAR. The department has undertaken many research projects funded by other funding agencies like CSIR, ISRO and DST. The faculties are actively engaged in the frontier research areas of chemistry.

About SERB- DST

The Department of science and technology (DST) is committed to promote women empowerment in all science and technology based activities by ensuring their full and equal participation in nation development. The DST is strongly motivated in strengthening women's potential and their knowledge base in developmental processes. The DST has adopted "women component plan" in 2002 with a aim to bring gender equality in science and technology. It has constituted a programme, "DISHA" which initiated several women oriented schemes like mobility scheme, DISHA-science communicators, refresher training course for women scientist and so on. In this regard, the DST is focusing on women career advancement in science and transform them to entrepreneurship development which directly have an impact on the economic growth of the country.

About the Workshop:

The workshop is aimed to motivate and popularize science education among women undergraduates with the ultimate goal to empower women in science and technology in order to ensure their equal participation in nation development. The objective of the workshop is to sensitize and create awareness on opportunities available for women science graduates in higher education. About 3-4 resource persons from prestigious institutions who are familiar on various governmental schemes at national and international level will deliver the lectures. The workshop will provide a unique platform to stimulate women undergraduate students to pursue their post graduate studies in science and technology.

National Advisory Committee

1. Dr.(Mrs.) Manju Sharma, Former Secretary to Govt.of India, Distinguished Scientist Chair, NASI, Allahabad.
2. Dr. Jyothi Sharma, Scientist E, DST, Ministry of Science and Technology, New Delhi
3. Dr. Ram Ramaswamy, Prof. School of Physical Sciences, Jawaharlal Nehru University, New Delhi.
4. Dr. Aruna Dhathathreyan, Prof. ACSIR and Scientist (Emeritus-CLRI), Chennai-20
5. Dr. Paranjit Khurana, Prof. Dept of Plant Molecular Biology, Delhi University, South campus, New Delhi
6. Dr. Madhoolika Agarwal, Prof. Dept. of botany, Banaras Hindu University, Varanasi.
7. Dr. Shelly Praveen, Head, Division of Biochemistry, Indian Agricultural Research Institute, New Delhi

Programme Details

Date: 2 nd Nov. 2016 Time: 9.00 a.m- 4.00 p.m	
Technical session	
9.00- 9.15	Inauguration (By Management)
9.15-10.00	Dr. S.Thamarai selvi, Professor, MIT, Chennai.
10.00-10.30	Tea break
10.30-11.30	Dr. Jayanthi, Head, Real Time systems, IGCAR, Chennai <i>Career opportunities through Higher education</i>
11.30-12.30	Dr. E. Bhaskaran, Deputy Director, EDI, Chennai <i>Women entrepreneurship development</i>
12.30-1.00	Lunch
1.00-2.00	Dr. T.V. Geetha, Director, Centre for Academic courses, Anna University, Chennai. <i>Prospects of Higher Education</i>
2.00-3.00	Quiz by Dr. Avinash, Assistant Professor, Department of English, Sathyabama University, Chennai.
3.00-3.30	Valedictory by Dr. Jaijaja MadanMohan Head, TCPAS, RMG, IGCAR, Chennai
3.30-3.45	Feed back and Questionnaire with Concluding Session

REGISTRATION FORM

Name :

Year and course :

College name with place :

Address for communication :

Mobile No./E.mail ID :

Signature of the student :

Signature of the college
principal with seal :

NO- REGISTRATION FEE for Technical session
Poster session— Registration fee Rs.250

Topics for poster:

1. Women and sustainable development
2. Women in scientific development
3. Women in societal development

(ONLY WOMEN STUDENTS)

Kindly confirm your participation through Ph or E-mail
Registration by SMS to 8148455410

Contact address:

Dr. V.KAVITHA,
Associate Professor and Convener, WEST - 2016
Department of Chemistry,
Sathyabama University, Rajiv Gandhi Salai, Chennai - 119
Phone: 044-24503065 / Extn: 5219 Fax: 044-24502344
Mobile: 8148855410 Email: viswanathan.kavitha@yahoo.com

SB/SS/560/16-17
Science and Engineering Research Board
(SERB)

5 & 5A, Lower Ground Floor,
Vasant Square Mall, Sector-B,
Pocket-5, Vasant Kunj,
New Delhi-110070

Dated: 14 September 2016

ORDER

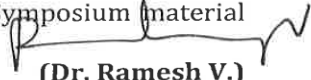
Subject: Financial assistance for organizing National Workshop on "Women Empowerment through Science and Technology-WEST2016 Futuristic India" by Dr. V. Kavitha, Sathyabama University, Chennai-600119 being held on 22 Oct., 2016.

Sanction is hereby accorded to the payment of a sum of ₹ 50,000/- (Rupees Fifty Thousand Only) to the Registrar, Sathyabama University, Chennai-600119 during the financial year 2016-2017 to meet the expenses related to TA/DA to Young and Senior Indian Scientists and Pre-conference printing in connection with the above event.

2. The amount of ₹ 50,000/- (Rupees Fifty Thousand Only) will be drawn by Finance & Budget Officer, SERB and disbursed to the Registrar, Sathyabama University, Chennai-600119 by means of Cheque or Electronic Fund Transfer (NEFT / RTGS) as per beneficiary's Bank Details given below:

Bank Account Name	Sathyabama University-Research
Bank Account Number	6089858032
Bank Name & Branch	Indian Bank, Sathyabama University, Jeppiaar Nagar, Chennai
Bank IFSC Code	IDIB000S201
Email Id of PI	viswanathan.kavitha@yahoo.com
Email Id of Beneficiary	registrar@sathyabamauniversity.ac.in
Email Id of Signatory	drvramesh@serb.gov.in, seminarsymposia@gmail.com

3. The expenditure involved is debitable to "Fund for Science & Engineering Research (FSER)". This release is being made under "Seminar Symposia Scheme".
4. This sanction is issued with the approval of competent authority under delegated powers and vide sanction number **SERB/F/3986/2016-17** dated **13/09/2016**.
5. As per Rule 211(1) of GFRs, the accounts of the Grantee Institution shall be open to inspection by the sanctioning authority/audit whenever the institute is called upon to do so.
6. It is **mandatory** that the grantee institution is required to submit to this office, **audited Statement of Income-Expenditure, Utilization Certificate** (in duplicate as per the enclosed prescribed format) and **brief report of the above event** (max. 04 pages) within three months after the date of completion.
7. The balance amount, if any, may be returned through DD in favor of "Fund for Science & Engineering Research" payable at New Delhi.
8. The **Logo of SERB** is to be displayed on all Conferences / Seminars / Symposium material being used for the event.


(Dr. Ramesh V.)
Scientist-'C'

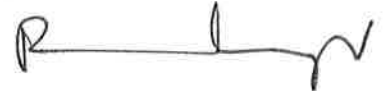
Conti.....

To

Finance & Budget Officer,
Science and Engineering Research Board (SERB),
5 & 5A, Lower Ground Floor,
Vasant Square Mall, Sector-B,
Pocket-5, VasantKunj,
New Delhi-110070.

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. **Dr. V. Kavitha,**
Associate Professor,
Department of Chemistry,
Sathyabama University,
Chennai-600119.
(Tamil Nadu)
Email Id- viswanathan.kavitha@yahoo.com
5. **The Registrar,**
Sathyabama University,
Chennai-600119.
(Tamil Nadu)



(Dr. Ramesh V.)
Scientist-'C'

DEPARTMENT OF CHEMISTRY
Workshop on Women Empowerment through Science and Technology (WEST-2016)
- Futuristic India
In association with
Science and Engineering Research Board (SERB)-DST on 2nd Nov.2016.

Participants List

S.No	Name of The Student	Institute/College
1.	K.Sushmitha	Sathyabama Institute of Science and Technology
2.	J.Jyothi	Sathyabama Institute of Science and Technology
3.	P.V.Sahithya	Hindustan Univeristy
4.	Kaushali Aich	Sathyabama Institute of Science and Technology
5.	Janani.V.	Sathyabama Institute of Science and Technology
6.	Debanjalee Roy	Sathyabama Institute of Science and Technology
7.	Rituparna Saha	Sathyabama Institute of Science and Technology
8.	Mohammed Rahmath Unnisa	Sathyabama Institute of Science and Technology
9.	Maddipudi Satyadivya	Sathyabama Institute of Science and Technology
10.	Nasreen.M.	Sathyabama Institute of Science and Technology
11.	Catherine Jonna Hazlitt	Sathyabama Institute of Science and Technology
12.	Nivetha.S.	Sathyabama Institute of Science and Technology
13.	R.Dorris Lourdes	Sathyabama Institute of Science and Technology
14.	I.Jane Austen	Sathyabama Institute of Science and Technology
15.	M.Deepika	Sathyabama Institute of Science and Technology
16.	Mallareddi Sravya	Sathyabama Institute of Science and Technology
17.	Ganji Veera Tejaswini	Sathyabama Institute of Science and Technology
18.	Niranjani. R.	Sathyabama Institute of Science and Technology
19.	Deepika Menon.S.	Sathyabama Institute of Science and Technology
20.	Kaviya.V.	Sathyabama Institute of Science and Technology
21.	A.Santhipriya	Sathyabama Institute of Science and Technology
22.	V.Subhashini	Sathyabama Institute of Science and Technology
23.	P.KaviyaMadhana	Sathyabama Institute of Science and Technology
24.	Rajalakshmi.K	Sathyabama Institute of Science and Technology
25.	T.Aswiniya	Sathyabama Institute of Science and Technology
26.	R.Harini	Sathyabama Institute of Science and Technology
27.	I.Jarish	Sathyabama Institute of Science and Technology
28.	N.Kiruthika	Sathyabama Institute of Science and Technology

29.	Devyani Mahadevan	Sathyabama Institute of Science and Technology
30.	Hariperiya	Sathyabama Institute of Science and Technology
31.	M.Janani	Sathyabama Institute of Science and Technology
32.	Vinita Jahnavi	Sathyabama Institute of Science and Technology
33.	Velgonda Laasya	Sathyabama Institute of Science and Technology
34.	Vanka Bhavya Sri	Sathyabama Institute of Science and Technology
35.	Saisruthi.D	Sathyabama Institute of Science and Technology
36.	Sridevi.G	Sathyabama Institute of Science and Technology
37.	Elisa Camille.J.	Sathyabama Institute of Science and Technology
38.	Archana.C.	Sathyabama Institute of Science and Technology
39.	Chennamma.V.	Sathyabama Institute of Science and Technology
40.	Kousalya.M.	Sathyabama Institute of Science and Technology
41.	Keerthipriya.A.S.	Sathyabama Institute of Science and Technology
42.	Keerthika.V.	Sathyabama Institute of Science and Technology
43.	Archana.K.	Sathyabama Institute of Science and Technology
44.	Archana. T.	Sathyabama Institute of Science and Technology
45.	Nishanthi.C.	Sathyabama Institute of Science and Technology
46.	J.K.Shabana Azmi	Sathyabama Institute of Science and Technology
47.	A.Sangeetha	Hindustan University
48.	R.Bhavani Chowdary	Sathyabama Institute of Science and Technology
49.	Gonuguntla Gnanalakshmi	Sathyabama Institute of Science and Technology
50.	Kavitha.A.	Sathyabama Institute of Science and Technology
51.	A.Uma maheshwari	Sathyabama Institute of Science and Technology
52.	Dhirsha Smyrna Daniel	Sathyabama Institute of Science and Technology
53.	G.Ammu Meena	Sathyabama Institute of Science and Technology
54.	S. Elakkiya	Stella Maris College for Women
55.	Pavithra.S.Devanesan	Sathyabama Institute of Science and Technology
56.	S.Vinitha	Sathyabama Institute of Science and Technology
57.	Mulakalapally Soujanya	Sathyabama Institute of Science and Technology
58.	R.Vinothini	Sathyabama Institute of Science and Technology
59.	R.Reshma	Sathyabama Institute of Science and Technology
60.	S.Santhanalakshmi	Sathyabama Institute of Science and Technology
61.	B.Sanjana	Sathyabama Institute of Science and Technology
62.	S.Suganya	Sathyabama Institute of Science and Technology
63.	B.Ramya	Sathyabama Institute of Science and Technology
64.	S.Radhika	Women's Christain college for woman, Tambaram.
65.	G.Swati	Sathyabama Institute of Science and Technology
66.	S.Summi	Sathyabama Institute of Science and Technology
67.	Ch.N.V. Sravani	Sathyabama Institute of Science and Technology
68.	K.Alekhyia	Sathyabama Institute of Science and Technology
69.	Chittaturi Lalitha	Sathyabama Institute of Science and Technology
70.	Preetha.S.	Sathyabama Institute of Science and Technology
71.	Sangeetha	Sathyabama Institute of Science and Technology
72.	S.Nishanthi	Sathyabama Institute of Science and Technology
73.	K.Mary Pranaya	Sathyabama Institute of Science and Technology

74	M.K.Lokeswari	Sathyabama Institute of Science and Technology
75	K.Navya Deepthi	Sathyabama Institute of Science and Technology
76	P.Aasmlesha Devi	Sathyabama Institute of Science and Technology
77	Poojitha.M.	Sathyabama Institute of Science and Technology
78	Anusha. L.	Sathyabama Institute of Science and Technology
79	KaviMalar Yadav.M.	Sathyabama Institute of Science and Technology
80	Nandhitha.C	Sathyabama Institute of Science and Technology
81	Jayashree.S	Sathyabama Institute of Science and Technology
82	Ashila.T	Sathyabama Institute of Science and Technology

REPORT ON “WOMEN EMPOWERMENT THROUGH SCIENCE AND TECHNOLOGY-WEST2016 *Futuristic India*”

The workshop on “Women Empowerment through Science and Technology-WEST 2016” was organised by **Sathyabama University** in association **SERB-DST** on **2nd November 2016**. The main objective of the workshop is to sensitize and to create awareness among woman science graduates on various opportunities available in higher studies. Around 80-100 woman graduates across various city colleges have attended the programme. The workshop was inaugurated by **Dr.B.Sheelarani**, Vice-Chancellor Sathyabama University and **Dr.T.Sasiprabha**, Dean-Research Sathyabama University with a Tamil Thai Vazhthu. The programme was scheduled with a inaugural address followed by heart-throbbing three enlightening session by eminent personalities; a poster session with a streaming session of open-quiz for the participants. The topics for the poster session were 1. Women and sustainable development, 2. Women in scientific development 3. Women in Societal development.

The Workshop begins with an inaugural address by **Dr.S.Thamaraiselvi**, Professor, CTDT, Anna University. She emphasized in her inaugural speech on the importance of higher education in women and motivated women graduates in aiming towards higher goals with empathy. She stressed on the path of achieving success through grabbing chances and creating opportunities as it comes. She interacted with women students by sharing her personal experiences to achieve success in both personal and working arena.

The **session-I lecture** “Career Opportunities through Higher education” was delivered by **Dr. T. Jayanthi**, Head of Real systems, IGCAR, Convener IWSA, Kalpakkam. She highlighted on the importance of higher education for advancement in their career. She explained about various competitive examinations and their eligibility criteria in procuring jobs in Government and private

sector. She stressed on the importance of research which would change their job-outlook and motivated the students on the various governmental schemes available to pursue higher education in women.

The **session-II lecture-** “Women Entrepreneurship development” was delivered by **Dr . E. Bhaskaran**, Deputy Director, Entrepreneurship Development of India, Chennai. He highlighted on the governmental schemes and sponsorship available for women entrepreneurship. He also discussed on the role of women in contributing to nation GDP. He stressed on Ten important rules to start the business and the ways to sustain in the national and global market.

The **session-III lecture** -“Prospects of Higher Education” was delivered by **Dr.T.V.Geetha**, Director, Centre for Academic courses, Anna University, Chennai. She narrated on the importance of higher education for the overall growth in career. She outlined on various competitive examinations like JAM, GATE, TOFEL, IELTS, GRE, SAT exams and the ways to approach and tackle those exams. She also highlighted the ways to pursue higher education in foreign university.

Each of the lecturers had a questionnaire from the participants to the resource person. There was an **open quiz** conducted by **Dr. Avinash**, Assistant Professor, Sathyabama University to the participants on famous woman personalities who have made significant contribution to the societal development. The students actively participated and were encouraged with a small memento.

The poster session and **Valedictory function** was spearheaded by **Dr. Jaljaja MadanMohan**, Head, TCPAS, IGCAR, Chennai. She interacted with the students participated in the poster session and selected the winners. The Winners of the poster session were given certificate of appreciation and a gift. In the valedictory function, she distributed the certificates for both the participants and the winners. She discussed on the importance of women education and highlighted her personal experiences to achieve goals in life.

The programme was concluded with a **vote of thanks** by **Dr. V.Kavitha**, Associate Professor, Sathyabama University and the convener of WEST-2016.

Photo Gallery for the WEST-2016.



Welcome Address given by Dr.V.Kavitha, Convenor of WEST-2016



Inaugural Address Given by Dr.S.Thamaraiselvi, Professor, CTDT, Anna University



fb.com/SathyabamaUniversityOfficial

Chief Guest, **Dr.S.Thamaraiselvi**, Professor, CTDT, Anna University is felicitated by
Dr.B.Sheela Rani, Dean Academics, Sathyabama University



fb.com/SathyabamaUniversityOfficial

Dr. T. Jayanthi, Head of Real systems, IGCAR receiving a memento from
Dr.T.Sasiprabha, Dean-Research Sathyabama University

FORM G.F.R. 19 A

UTILISATION CERTIFICATE
(IN DUPLICATE)

SERB Ref. No: SB/SS/560/16-17

Dated 2nd Jan.2017

Certified that out of Rs 50,000 (Fifty Thousand Only) of grants-in-aid sanctioned during the year 2016-2017 in favour of The Registrar, Sathyabama University, Chennai under this Ministry/ Department letter/order No SERB/F/3986/2016-17 dated 13/09/2016 has been utilized for the purpose of to meet the expenses related to TA/DA to Young and Senior Indian Scientists and Pre-conference printing in connection of the event for which it was sanctioned.

2. Also Certified that I have satisfied that the conditions on which the grants-in-aid was sanctioned have been fulfilled and that have exercised the following checks to see that the money was actually utilized for the purpose for which it was sanctioned:-

Kindly of checks exercised.

- 1.
- 2.

(Signature of Financial Officer
with Seal)



(Signature of Head of the
Institution with Seal)

DR. S.S. RAU
REGISTRAR
SATHYABAMA UNIVERSITY
JEPPIAAR NAGAR,
RAJIV GANDHI SALAI
CHENNAI - 600 119.

MODEL CERTIFICATE “WOMEN EMPOWERMENT THROUGH SCIENCE AND TECHNOLOGY-WEST2016 *Futuristic India*”

	SATHYABAMA UNIVERSITY (Established under Section 3 of UGC Act, 1956) JEPPIAAR NAGAR, RAJIV GANDHI SALAI CHENNAI - 600 119 SCHOOL OF SCIENCE AND HUMANITIES DEPARTMENT OF CHEMISTRY				
This is to certify that Dr./Mr./Ms. _____ of _____ has presented a poster and won a _____ prize in the “one day National Level Workshop on Women Empowerment through Science Technology (WEST-2016) Futuristic India” organized by the Department of Chemistry in association with Science and Engineering Research Board (SERB) - DST on 2nd November, 2016.					
<table style="width: 100%;"> <tr> <td style="width: 33%; text-align: center;"> Dr. Marie Johnson B.E, M.B.A, M.Phil, Ph.D Director </td> <td style="width: 33%; text-align: center;"> Dr. Mariazeena Johnson B.E, M.B.A, M.Phil, Ph.D Director </td> <td style="width: 33%; text-align: center;"> Dr. V. Kavitha Convener (WEST-2016) </td> </tr> </table>			Dr. Marie Johnson B.E, M.B.A, M.Phil, Ph.D Director	Dr. Mariazeena Johnson B.E, M.B.A, M.Phil, Ph.D Director	Dr. V. Kavitha Convener (WEST-2016)
Dr. Marie Johnson B.E, M.B.A, M.Phil, Ph.D Director	Dr. Mariazeena Johnson B.E, M.B.A, M.Phil, Ph.D Director	Dr. V. Kavitha Convener (WEST-2016)			

SATHYABAMA UNIVERSITY
FACULTY OF SCIENCE AND HUMANITIES
DEPARTMENT OF CHEMISTRY

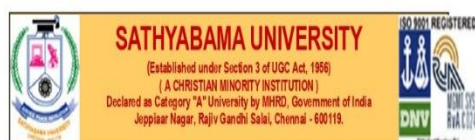
REPORT ON WORKSHOP

TITLE OF THE EVENT: One Day WORKSHOP ON APPLICATIONS OF THIN LAYER CHROMATOGRAPHY (WAT-2016)

DATE AND TIME: 25TH JULY 2016 Time: 9.00 am – 3.00 pm

TYPE OF THE EVENT: Workshop on Sathyabama University Campus. Venue: Admin Auditorium

PROGRAMME BROCHURE:



FACULTY OF SCIENCE AND HUMANITIES

PG & RESEARCH DEPARTMENT OF CHEMISTRY

Cordially invites for One day
**WORKSHOP ON APPLICATIONS OF
THIN LAYER CHROMATOGRAPHY
(WAT-2016)**

to be held on 25th JULY, 2016

VENUE: Admin Auditorium



About the Department

The Department of Chemistry is one of the departments started right from the inception of Sathyabama Institute of Science and Technology, Chennai in the year 1987. It has well-established laboratories equipped with sophisticated instruments, which fulfill the needs of the PG and Ph.D. students. The department at present has 13 faculty members and around 20 Ph.D. students. The department has undertaken many sponsored and collaborative Research & Development projects funded by various national organizations including one with IGCAR. The department has undertaken many research projects funded by other funding agencies like CSIR, ISRO and DST. The faculties are actively engaged in the frontier research areas of chemistry.

About the Workshop

The one day workshop on Thin-layer chromatography is being organized in order to motivate and keep students, researchers and academicians abreast of advances and current trends in TLC techniques. Thin layer chromatography is a useful resource for chromatographers, pharmacists, analytical chemists, students, R&D, clinical and forensic laboratories. TLC is a very commonly used technique in synthetic chemistry for identifying compounds, determining their purity and following the progress of a reaction. The training required for successful performance of the thin layer chromatography assessments is much lower than that of other technologies due to its robustness and ease of use. The main focus of the workshop is to provide basic principle, preparation of TLC plate, experimental procedure and demonstration of real time sample analysis by industrial experts.

REGISTRATION FORM 1.Name : 2.Course & Branch: 3.Organization : 4.Address for Communication : 5.Mobile No. : 6.E-mail ID. : Signature	REGISTRATION FEE: Rs.200/- (Students and Staff) Limited participants only (First come first serve basis) Kindly confirm your participation through Phone or E-mail Registration by SMS to 9176672094
Program Schedule The Program covers invited talk, practical procedures, demonstration and industrial applications by IIT professors and Industrial experts. Sessions 1. Invited Talk - 1 : Principles of Thin Layer Chromatography- Dr. Anbarasan, IITM 2. Invited Talk - 2 : Regulatory and Compliance in performing TLC—Dr. Ramesh Kumar, IIBAT 3. TLC – Practical Demonstration—Mr. Mohan Raj, Piramal Enterprises Ltd	Contact address: Dr. T. Krithiga Associate Professor and Convener, WAT 2016 Department of Chemistry Sathyabama University Rajiv Gandhi Salai, Chennai – 600119. Phone: 044-24503065 / Extn: 5219 Fax: 044-24502344 Mobile: 9176672094 Email: krithi_t2001@yahoo.com

PROGRAMME SCHEDULE:

The program schedule comprises of 2 invited talks given by Eminent speakers. The program also consists of Practical demonstration of TLC.

SESSION 1:

Date & Time: 25-07-2016 & 9.00 AM – 10.30 AM

Speaker of the Day: Dr. Anbarasan, Assistant Professor, Department of Chemistry, IIT Madras

Topic: Principles of Thin Layer Chromatography

SESSION 2:

Date & Time: 25-07-2016 & 10.30 AM – 12.00 NOON

Speaker of the Day: Dr. Ramesh Kumar, Director, International Institute of Biotechnology and Toxicology, Chennai

Topic: Regulatory and Compliance in performing TLC

SESSION 3:

Date & Time: 25-07-2016 & 1.00 PM – 3.00 PM

Speaker of the Day: Dr. Mohan Raj, Piramal Enterprises Ltd, Chennai

Topic: Practical Demonstration of TLC

SPEAKERS LIST:

1. Dr. Anbarasan, Assistant Professor, Department of Chemistry, IIT Madras
2. Dr. Ramesh Kumar, Director, International Institute of Biotechnology and Toxicology, Chennai
3. Dr. Mohan Raj, Piramal Enterprises Ltd, Chennai

CERTIFICATE MODEL:



ACTIVITY REPORT:

One Day WORKSHOP ON APPLICATIONS OF THIN LAYER CHROMATOGRAPHY (WAT-2016) was conducted on 25th July 2016 from 9.00 am – 3.00 pm organized by Convener - Dr. T. Krithiga. The program schedule comprises of 2 invited talks given by Dr. Anbarasan, Assistant Professor, Department of Chemistry, IIT Madras and Dr. Ramesh Kumar, Director, International Institute of Biotechnology and Toxicology, Chennai. The program also consists of Practical demonstration of TLC given by Dr. Mohan Raj, Piramal Enterprises Ltd, Chennai.

The inaugural address was given by Dr. T. Krithiga, Convener, detailing the program schedule of the event. The Session 1 speech was given by Dr. Anbarasan, working as Assistant Professor in the Department of Chemistry, IIT Madras. The talk was on the topic "Principles of Thin Layer Chromatography" which elaborately covered the basic concepts and types of the Thin layer Chromatography. The Session 2 talk was given by Dr. Ramesh Kumar, Director, International Institute of Biotechnology and Toxicology, Chennai on the topic "Regulatory and Compliance in performing TLC"

which detailed the Regulatory principles and compliances followed in IIBAT while performing Thin layer Chromatography. His talk gave a broad prospect of the procedures that are followed in industries. After the Lunch break the Session 3 was handled by Dr. Mohan Raj, Piramal Enterprises Ltd, Chennai. It was a clear explanation on “Practical demonstration of TLC” and he performed the demonstration with real time sample and TLC plate and the participants viewed the TLC plate in UV chamber. The program was ended with a Vote of Thanks by Dr. T. Krithiga, Convener.

PHOTOS:





LIST OF PARTICIPANTS:

A total of 56 participants registered and benefitted from the workshop.

S. NO	NAME OF PARTICIPANTS	INSTITUTION
1.	AKSHAYA P	SATHYABAMA UNIVERSITY
2.	AMONICAA BARRET K	SATHYABAMA UNIVERSITY
3.	ANANTHA SAI KUMAR REDDY	SATHYABAMA UNIVERSITY
4.	ANITHA D	SATHYABAMA UNIVERSITY
5.	ANKITA J	SATHYABAMA UNIVERSITY
6.	ANNA MATHEW K	SATHYABAMA UNIVERSITY
7.	ANUMITRA B	SATHYABAMA UNIVERSITY
8.	ARAVIND S	SATHYABAMA UNIVERSITY
9.	ASHRITHA KAKARLA	SATHYABAMA UNIVERSITY
10.	ATHIRA GOPAKUMAR	SATHYABAMA UNIVERSITY
11.	BALAJI R V	SATHYABAMA UNIVERSITY
12.	BRENCY GRACELIN G	SATHYABAMA UNIVERSITY
13.	DEEPAK RAMANAN V	SATHYABAMA UNIVERSITY
14.	DHANALAKSHMI N	SATHYABAMA UNIVERSITY
15.	DHANAM PRIYA M	SATHYABAMA UNIVERSITY
16.	DIVYA R	SATHYABAMA UNIVERSITY

17.	DURGA SRUTHI P	SATHYABAMA UNIVERSITY
18.	ELAKIYA VANI P	SATHYABAMA UNIVERSITY
19.	GAYATHRI V	SATHYABAMA UNIVERSITY
20.	GIRIJA VASUDEVAN	SATHYABAMA UNIVERSITY
21.	GOPAL SAMY. K	SATHYABAMA UNIVERSITY
22.	HARINI SINGARAVEL	SATHYABAMA UNIVERSITY
23.	HELINA R	SATHYABAMA UNIVERSITY
24.	IFFATH BADSHA	SATHYABAMA UNIVERSITY
25.	JACYNTHA KRIPA THOMAS	SATHYABAMA UNIVERSITY
26.	JAGADEESAN S	SATHYABAMA UNIVERSITY
27.	JAHNAVI Y M	SATHYABAMA UNIVERSITY
28.	JANANI MAHENDRAN	SATHYABAMA UNIVERSITY
29.	JENIFER SELVARANI A	SATHYABAMA UNIVERSITY
30.	JESSY INFANTINA L	SATHYABAMA UNIVERSITY
31.	JILLELA YOGESH REDDY	SATHYABAMA UNIVERSITY
32.	JYOTI KUMARI	SATHYABAMA UNIVERSITY
33.	KARISHMA S	SATHYABAMA UNIVERSITY
34.	KARTHIKA S	SATHYABAMA UNIVERSITY
35.	KARTHIKEYAN M	SATHYABAMA UNIVERSITY
36.	KEERTHANA D	SATHYABAMA UNIVERSITY
37.	KEERTHANA V	SATHYABAMA UNIVERSITY
38.	KIRTHIGA B	SATHYABAMA UNIVERSITY
39.	KIRTHIGA. D	SATHYABAMA UNIVERSITY
40.	KOUSHIKA B	SATHYABAMA UNIVERSITY
41.	LAVANYA V	SATHYABAMA UNIVERSITY
42.	LAVANYA Y	SATHYABAMA UNIVERSITY
43.	LINCY LEEMARIEN Y	SATHYABAMA UNIVERSITY
44.	LOGESHWARI S	SATHYABAMA UNIVERSITY
45.	MADHUMEENA R.S.	SATHYABAMA UNIVERSITY
46.	MAHAASHREE V	SATHYABAMA UNIVERSITY
47.	MAHALAKSHMI. A	SATHYABAMA UNIVERSITY
48.	MANJUSHA R	SATHYABAMA UNIVERSITY
49.	MANJUSHA. G	SATHYABAMA UNIVERSITY

50.	MEENAKSHI B	SATHYABAMA UNIVERSITY
51.	MEHABOOB ROSHINI H	SATHYABAMA UNIVERSITY
52.	MONICCA M.	SATHYABAMA UNIVERSITY
53.	KARTHIK. B	SATHYABAMA UNIVERSITY
54.	JAYAKANTH	SATHYABAMA UNIVERSITY
55.	KASTURI	SATHYABAMA UNIVERSITY
56.	LASKHMI	SATHYABAMA UNIVERSITY



SATHYABAMA UNIVERSITY

(Established under Section 3 of UGC Act, 1956)
(A CHRISTIAN MINORITY INSTITUTION)
Declared as Category "A" University by MHRD, Government of India
Jeppiaar Nagar, Rajiv Gandhi Salai, Chennai - 600119.



FACULTY OF SCIENCE AND HUMANITIES

DEPARTMENT OF CHEMISTRY

Cordially invites for
One day National Seminar on
**NUCLEAR ENERGY – ENVIRONMENT,
DEMAND AND SUPPORT (NEEDS - 2016)**
(Sponsored by Board of Research in Nuclear
Sciences)

to be held on 7th September, 2016

In association with
Indira Gandhi Centre for Atomic Research (IGCAR),
Kalpakkam

VENUE: B.Arch. Auditorium



ABOUT SATHYABAMA UNIVERSITY

Sathyabama university was established under section (3) of the UGC Act, 1956 (A Christian Minority Institution) which was formerly known as Sathyabama Engineering College established by JEPPIAAR EDUCATIONAL TRUST in the year 1987. It is a pioneer institute imparting knowledge in the field of engineering, science, technology and education. The institution's progress and contribution in the field of technical education for over two decades made the Ministry of Human Resources Development, Govt. of India to grant Deemed University status on 16th July, 2001 and University status on 13th September, 2006 under section(3) of the UGC Act, 1956. Sathyabama University, under the dynamic leadership of Founder Chancellor Dr. JEPPIAAR, Chancellor Tmt. REMIBAI JEPPIAAR have been strengthening university development activities to bring the fruits of research for the betterment of the society with the able support and valuable guidance of the Directors, Dr. Marie Johnson and Dr. Mariazeena Johnson. The University has excellent infrastructural facilities including modern laboratories, library with video, internet and other general amenities. The university offers courses in 19 branches of Engineering and Technology at the UG level and 35 courses at the PG level in addition to Sciences, MBA and Ph.D. programs in all disciplines. To its credit it has been awarded as category "A" University by the Ministry of Human Resource Development (MHRD), Government of India. The university has undertaken many sponsored and collaborative Research & Development projects funded by various national organizations such as Indian Space Research Organization (ISRO), Department of Science and Technology (DST), Department of Biotechnology (DBT), Department of Atomic Energy (DAE), Defence Research and Development Organization (DRDO), Indira Gandhi Center for Atomic Research (IGCAR), Board of Research in Nuclear Sciences (BRNS), Ministry of Environment and Forests (MoEF), Ministry of Earth Sciences (MoES), etc.,

ABOUT THE DEPARTMENT

The Department of Chemistry is one of the departments started right from the inception of Sathyabama Engineering College, Chennai in the year 1987. It has well-established laboratories equipped with sophisticated instruments, which fulfill the needs of the PG and Ph.D. students. The department at present has 13 faculty members and around 20 Ph.D. students. The department has undertaken many sponsored and collaborative Research & Development projects funded by various national organizations including IGCAR. The department has also undertaken many research projects funded by other funding agencies like CSIR, ISRO and DST. The faculties are actively engaged in the frontier research areas of chemistry.

NATIONAL ADVISORY COMMITTEE

Dr. M. Sai Baba, Associate Director, Resource Management Group, IGCAR
Dr. Jalaja Madan Mohan, Head, TCPAS, RMG, IGCAR
Dr. S. Swarnalatha, Scientist, CLRI, Chennai
Dr. N. Rajendarn, Assistant Professor, Madras University
Dr. A. Nityananda Shetty, Professor, NIT K, Suratkal

OBJECTIVES AND IMPORTANCE OF THE SEMINAR

India's primary energy consumption has doubled in the recent years. Our country depends on imported energy resources and there is inconsistent reform of the energy sector forming major challenges to the rising demand. There is an acute demand for more and more reliable power supplies. The energy demand, due to shortage of fossil fuels, is driving us towards nuclear investment for electricity. In spite of being an important energy resource, nuclear energy continues to be a sensitive one among the public. People are aware of the potential hazards of both nuclear criticality and the release of radioactive materials from generating electricity with nuclear power, even though the design and operation of the nuclear power plants aims to minimise the likelihood of accidents, and avoid major human consequences when they occur. By the progressive improvement in the designing and upgradation of the existing nuclear power plants, it is possible to prevent accidents from taking place. The use of nuclear energy for electricity generation can then be considered as extremely safe.

Nuclear contribution to energy of about 25% is the ambition for 2050. It is high time that we rely on nuclear energy for sustainability and environmental protection from pollution. Hence it is important to spread awareness among the public about the nuclear safety and energy production. It can be made possible by conducting awareness programmes to address the myths about the use of nuclear energy.

India can become energy independent only by attracting young minds to take up the nuclear energy field for the future protection in the energy sector and to fix the key issues related to the working of the aged nuclear power plants.

It is in this view that this seminar has been proposed to spread awareness about nuclear energy among the student community so that they take up nuclear energy field for its fast development without compromising on human health and safety.

Convener:

Dr. S. Supriya,

Associate Professor and Convener, NEEDS—2016,
Department of Chemistry,
Sathyabama University
Rajiv Gandhi Salai, Chennai – 600 119 .

NO REGISTRATION FEE

Kindly confirm your participation through Ph or E-mail

Registration by SMS to 9791093172

supriyasubrahmani@gmail.com

PROGRAMME SCHEDULE

9.30 AM to 9.45 AM	Inauguration
9.45 AM to 10.30 AM	Invited Talk 1
10.30 AM to 11.30 AM	Tea Break and Exhibition
11.30 AM to 12.15 PM	Invited Talk 2
12.15 PM to 1.00 PM	Movie show
1.00 PM to 1.45 PM	Lunch
1.45 PM to 2.30 PM	Invited Talk 3
2.30 PM to 3.15 PM	Quiz

WHO CAN ATTEND?

UG and PG level students of Science, Engineering and Technology who are particularly interested to learn, to get innovative thoughts and to contribute for future requirements in the field of nuclear energy.

HIGHLIGHTS OF THE PROGRAMME

Eminent scientists from IGCAR will deliver talks on the current scenario of nuclear energy and other related areas of nuclear science and technology.

A pool of scientists from IGCAR and different DAE units will interact with the participants in the field of nuclear energy, functioning of various DAE units and career opportunities available in the field of nuclear science and technology.

An exhibition consisting of around 10 stalls representing various activities of DAE units will be displayed.

A film show on the functioning of different DAE units will be presented for the participants.

A quiz programme will be conducted by the IGCAR team to encourage and motivate the participants in the field of nuclear energy.

Report on Seminar

- Name of the Seminar: **Nuclear Energy – Environment, Demand and Support (NEEDS- 2016)**
- Place where the event was held: **Sathyabama University, Sholinganallur, Chennai – 119**
- Dates/Period of the event: **7th September 2016**
- Section/Division/Group conducting the event: **Department of Chemistry, Sathyabama University, Sholinganallur, Chennai - 119**
- Sponsors of the event: **BRNS**

Scientific Programme of the event :

India's future energy demand relies on nuclear energy as the other forms of energy are getting depleted fastly. In order to have energy safety in the future, it is important to have development in the nuclear energy field without compromising on public health and safety. Development of nuclear energy field is possible only when the public come to know of the importance of nuclear energy. In order to spread awareness about the nuclear energy among the public and students, the BRNS sponsored seminar "**Nuclear energy – Environment, Demand and Support (NEEDS-2016)**" was organized by the Department of Chemistry, Sathyabama University in association with IGCAR, Kalpakkam on **7th September 2016**. Students from various city colleges were invited for the programme and all the necessary arrangements were made for them.

We erected 8 stalls for the displays and models brought by the IGCAR team headed by Mrs. Jalaja Madan Mohan, Head, Technical Coordinator and Public Awareness Section, Resource Management Group, IGCAR, for encouraging the students in the field of nuclear energy in the form of exhibition.

The inaugural address was given by Dr. G. Amarendra, Distinguished Scientist and Director, Materials Science Group. He visited the stalls and addressed the audience and briefed about the importance of nuclear energy. Inauguration was followed by three invited talks. First was given by Dr. M. Sai Baba, Associate Director, RMG, IGCAR. He gave talk on different energy resources based on their availability and their existing energy demand. The second was given by Thiru S. Ravishankar, Technical Audit Engineer and a member of Public Awareness team of Madras Atomic Power Station. His speech gave complete insight into different types and functioning of heavy water reactors across the world and specifically on those present in India. The third was given by Dr. M. T. Jose, Head, Radiation Safety Section, HSEG, IGCAR. He explained about the applications of nuclear energy and its importance in the treatment of diseases.

The third speech was followed by a quiz competition conducted by the IGCAR team. Questions related to nuclear energy were asked to the students who eagerly and anxiously answered several of the questions and were appreciated by giving compliments for each of the correct answer given by them. A movie show on the functioning of various DAE units was put up to entertain, encourage and motivate the students in the field of nuclear energy. Finally, the programme was concluded by a thanks giving note for the participants and the dignitaries. We the department staff were happy to interact with the scientists from IGCAR.

Feedback from the students and visitors were very much positive and were appreciated for the best possible way of conducting the programme.

We sincerely thank BRNS for the sponsorship given to conduct the seminar. Our heartfelt thank to all the scientists from IGCAR. Our special thanks to Dr. M. Sai Baba and Mrs. Jalaja Madan Mohan for their constant encouragement and support rendered in making the programme a grand success.

We also extend our thanks to all the volunteers who actively engaged in putting up the exhibition.

The volunteers are :

1. Shri R.Nagaraj Scientific Officer, Fast Reactor Technology Group, IGCAR
2. Smt S.Nagajyothi Devi Scientific Assistant F, Fast Reactor Technology Group, IGCAR
3. Smt M.Devi, Scientific Assistant, Training Section, Reactor Operation and Maintenance group, IGCAR
4. Shri V. Krishna Murthy, Scientific officer, Reactor Design Group, IGCAR
5. Shri Ramkumar Maity, Scientific officer, Reactor Design Group, IGCAR
6. Shri J.K.Sekar, Scientific Officer, Chemistry Group, IGCAR
7. Dr. R.Venkata Krishnan, Scientific Officer, Chemistry Group, IGCAR
8. Smt R. Akila, Scientific Officer, Radiological Safety Division, IGCAR
9. Dr. T.K.Srinivasan, Scientific Officer, Radiological Safety Division, IGCAR
10. Smt. Thulasi Brindha, Scientific Officer, Environmental Survey Lab, MAPS
11. Smt Anitha Manu, Scientific Officer, Environmental Survey Lab, MAPS
12. Shri M.Ramu, Scientific Assistant, Tech. Coordination & Public Awareness Section Resource Management Group, IGCAR.

Highlights of the event :

- Eminent scientists from IGCAR gave talk on the current scenario of nuclear energy and other related areas of nuclear science and technology.
- A pool of scientists from IGCAR and different DAE units interacted with the students about the nuclear energy field, functioning of various DAE units and career opportunities available in the field of nuclear science and technology.
- An exhibition consisting of 8 stalls displayed the achievements and various developmental activities of various DAE units.
- A film show on the functioning of different DAE units was presented for the students to improve their knowledge in the field of nuclear energy.
- A quiz programme was conducted by the IGCAR team to encourage and motivate the students in the field related to nuclear energy.

Inaugural Address by the Distinguished Scientist and Director Dr. G. Amarendra



Exhibition - Opening Ceremony by the Director Dr. G. Amarendra along with the Director Dr. M. Sai Baba, RMG, IGCAR, Kalpakkam



Through: Head of the Section/Division/Group

To,
Head, SIRD,
BARC

Encls:
A hard copy
A soft copy



SATHYABAMA UNIVERSITY

(Established under Section 3 of UGC Act, 1956)

JEPPIAAR NAGAR, RAJIV GANDHI SALAI

CHENNAI - 600 119

FACULTY OF SCIENCE AND HUMANITIES

DEPARTMENT OF CHEMISTRY



This is to certify that Dr./Mr./Ms. S. SUPRIYA of
Department of Chemistry, Sathyabama University has
participated in the BRNS sponsored one day national level seminar on "NUCLEAR ENERGY-
ENVIRONMENT, DEMAND AND SUPPORT (NEEDS-2016)" organized by the Department of
Chemistry in association with IGCAR, Kalpakkam, on 7th September, 2016.

Dr. Marie Johnson B.E, M.B.A, M.Phil, Ph.D
Director

Dr. S. Supriya
Convener (NEEDS-2016)

Dr. Mariazeena Johnson B.E, M.B.A, M.Phil, Ph.D
Director

Dr. M. Sai Baba
Associate Director, RMG (IGCAR)

**BRNS Sponsored One Day National Seminar on Nuclear Energy –
Environment, Support and Demand in association with IGCAR (Kalpakkam),
7th September 2016**

NEEDS_2016 : LIST OF PARTICIPANTS

S.No	Name of the Participant	Affiliation
1	R. Jaya Chitra	SDNB Vaishnav College
2	S. Aparna Lakshmi	SDNB Vaishnav College
3	V. Divya Bharathi	SDNB Vaishnav College
4	V. Roshni	SDNB Vaishnav College
5	M. Vignesh	Ramakrishna Mission
6	Balasubramanian S	Ramakrishna Mission
7	G. Subalakshmi	SDNB Vaishnav College
8	Prem Chandra M	Ramakrishna Mission
9	Ram Kumar S	Ramakrishna Mission
10	V. Padmanabhan	RKM Vivekananda College
11	L.Prabhunathan	RKM Vivekanandha College
12	V. Murugan	Ramakrishna Mission
13	P. Shanthi	SDNB Vaishnav College
14	G. Sangeetha	SDNB Vaishnav College
15	D. Keerthana	SDNB Vaishnav College
16	K. Akhila	SDNB Vaishnav College
17	R. Sneha	SDNB Vaishnav College
18	C. Haritha	SDNB Vaishnav College
19	S. Pownpriya	SDNB Vaishnav College
20	Fathima Fayaja A	SDNB Vaishnav College
21	V. Nandhini	SDNB Vaishnav College
22	M. Mageshwari	SDNB Vaishnav College
23	V. Gauthami	SDNB Vaishnav College
24	A. Arul Kumar	Ramakrishna Mission
25	V. Nagamamdharan	Ramakrishna Mission
26	V. Gayathri	SDNB Vaishnav College
27	Irish M	SDNB Vaishnav College
28	K. Abirami	SDNB Vaishnav College
29	Rajanandhini S	Vels University
30	S. Dinesh	Vels University
31	E. Rudreshwaran	Vels University
32	Karthick Raja	Vels University
33	C. Yaswanth	DG Vaishnav College
34	V. Dharani	DG Vaishnav College
35	V. Muthaiya	D G Vaishnav College
36	Keerthana K	Vels University
37	Kalai Selvi K	Vels University
38	Pooja Singh	Vels University
39	G. Balaji	Vels University
40	N.S. Varshaan	Vels University

41	Tamil Vendhan R	Vels University
42	Bharathwaj	Vels University
43	Dr. T. Somanathan	Vels University
44	M. Shanmugam	Vels University
45	Lavanya N	Vels University
46	S. K. Manikandan	Vels University
47	S. Hari	Vels University
48	S. Rafeeq Ahmad	Vels University
49	M. Ganesh	Vels University
50	S. Purushothaman	Vels University
51	Sajin D	Vels University
52	Devendra V	Vels University
53	A. Nansi	Vels University
54	G.R. Monish	Vels University
55	Kavitha S	Vels University
56	A. Manisha	Vels University
57	Bipin Nishanth	Vels University
58	Mohana Prrabu V	Vels University
59	Arjun K umar Guptha	Vels University
60	Juhi Prasath	DG Vaishnav College
61	Mukesh V	DG Vaishnav College
62	Rajeshwari T	DG Vaishnav College
63	V. MOnisha	Vaishnav College
64	R. Keerthana	Vaishnav College
65	C. Damodharan	DG Vaishnav College
66	M. Nethaji	DG Vaishnav College
67	C. Vignesh	DG Vaishnav College
68	K. Panneerselva,	DG Vaishnav College
69	Deepika M	Vels University
70	Sharu Priya P	Vels University