



K.S. GROUP OF INSTITUTIONS

Ph. : +91 80 28425163  
+91 88844 44408

# K.S. SCHOOL OF ENGINEERING & MANAGEMENT

Approved by AICTE-1-5279601, Affiliated to VTU, Belagavi, ACCREDITED BY NAAC

#15, Near Vajarahalli, Mallasandra, off Kanakapura Road, Bengaluru - 560 109



E-mail : principal@kssem.edu.in Website : www.kssem.edu.in

No. **1223**

Date 6/6/24

*Paid to Sri Manjunath S, Programmes, A.I.D.S..... a sum of*

*Rupees ..... Two hundred and fifty..... only.....*

*..... by Cash / Cheque No. 247946/29.05.24.....*

*towards the account of Reimbursement of registration fee to attend workshop.*

₹ : ..... 250/-.....

Treasurer / Secretary

Manager

*Manjunath S*  
Receiver's Signature





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E-mail : principal@kssem.edu.in Website : www.kssem.edu.in



No. **1194**

Date 29/5/24

Paid to Sri Pallavi V., Programmer, A.I & D.S. ..... a sum of

Rupees ..... Two hundred and fifty only .....

..... by Cash / Cheque No. 247920/27.05.24. .....

towards the account of Reimbursement of registration fee to attend workshop .....

₹ : 250/- .....

Treasurer / Secretary

Manager

Receiver's Signature

*Pallavi V.*





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E-mail : principal@kssem.edu.in Website : www.kssem.edu.in



No. **1225**

Date 6/6/24

*Paid to Sri ..... Hasshitha:th: S, Asst. Prof., AIDS..... a sum of*

*Rupees ..... Two thousand seven hundred and fifty only*

*..... by Cash / Cheque No. 247948/29.05.24.....*

*towards the account of ..... Reimbursement of registration fee to.....  
attend FDP*

₹ : *2,750/-*.....

Treasurer / Secretary

Manager

Receiver's Signature





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E-mail : [principal@kssem.edu.in](mailto:principal@kssem.edu.in)

Website : [www.kssem.edu.in](http://www.kssem.edu.in)

No.

**1198**

Date

29/5/24

*Paid to Sri... Bhaseeth... Kumar... D... Programme, CSE..... a sum of*

*Rupees .....Two hundred and fifty only.....*

*..... by Cash/ Cheque No. 247923/27.05.24.*

*towards the account of... Reimbursement of registration fee to attend workshop.*

₹ : 250/-.....

Treasurer / Secretary

Manager

Receiver's Signature





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Website : [www.kssem.edu.in](http://www.kssem.edu.in)

No. **1197**

Date 29/5/24

*Paid to Sri Dhivresh Kumar T. Programmer, CSE a sum of*

*Rupees Two hundred and fifty only*

*..... by Cash / Cheque No. 247922/27.05.24.*

*towards the account of Reimbursement of registration fee to attend workshop.*

₹ : ..... 250/- .....

Treasurer / Secretary

Manager

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No. **1192**

Date 29/5/24

Paid to Sri *Amritha S. Associate Prof. CSE* a sum of

Rupees *Five hundred only*

..... by Cash / Cheque No. *247918/27.05.24*

towards the account of *Reimbursement of registration fee to attend FDP.*

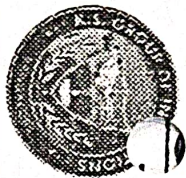
₹ : *500/-*

Treasurer / Secretary

Manager

*Amritha S.*  
Receiver's Signature





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E-mail : [principal@kssem.edu.in](mailto:principal@kssem.edu.in)

Website : [www.kssem.edu.in](http://www.kssem.edu.in)

No. **1193**

Date 29/5/24

Paid to Sri... *Sougandhika Narayan, Asst. Prof. CSE* ..... a sum of

Rupees ..... *Five hundred only* .....

..... *by Cash / Cheque No. 247919/27.05.24* .....

*towards the account of Reimbursement of registration fee to attend FDP.*

₹ : ..... *500/-* .....

Treasurer / Secretary

Manager

*Sougandhika*  
Receiver's Signature

Recommendation of HOD:





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E-mail : [principal@kssem.edu.in](mailto:principal@kssem.edu.in) Website : [www.kssem.edu.in](http://www.kssem.edu.in)

No. **1196**

Date 29/5/24

*Paid to Sri...Nagaveni...Nimbal Asst Prof, CSE a sum of*

*Rupees ... One thousand only*

*..... by Cash / Cheque No. 247921/27.05.24*

*towards the account of ..Reimbursement of registration fee to attend FDP.*

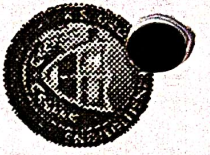
₹ : .....1,000/-.....

Treasurer / Secretary

Manager

Receiver's Signature





# K.S. SCHOOL OF ENGINEERING AND MANAGEMENT

K.S. GROUP OF INSTITUTIONS

Phone : H.O. : 26678053, 26678735  
College : 28425012, 28425013

(approved by AICTE & Recognised by VTU)

#15/1, Mallasandra, Off. Kanakapura Road, Bengaluru - 560 109



No. **1968**

Date 19/2/24

Paid to Sri *Amita S, Assoc Prof, CSE* a sum of

Rupees *Seven hundred and fifty only*

..... by Cash / Cheque No. *245749/13.02.24*

towards the account of *Reimbursement of Registration Fee for NTA Exam*

RS *750/-* .....

Treasurer / Secretary

Manager

*Amita S*  
Receiver's Signature





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#15, Near Vajarahalli, Mallasandra, off Kanakapura Road, Bengaluru - 560 109

E-mail : principal@kssem.edu.in

Website : www.kssem.edu.in

No. **1145**

Date 30/4/24

*Paid to Sri Netharavathi K.S., Asst Prof, CSE a sum of*

*Rupees ..... Five hundred and ninety only*

*..... by Cash / Cheque No. 247875/23.04.24.*

*towards the account of Reimbursement of registration fee to attend workshop.*

₹ : 590/-

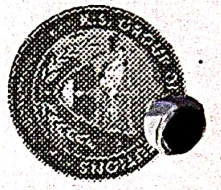
Treasurer / Secretary

Manager

Receiver's Signature

Recommendation of HOD:





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E-mail : [principal@kssem.edu.in](mailto:principal@kssem.edu.in) Website : [www.kssem.edu.in](http://www.kssem.edu.in)

No. **1286**

Date 25/07/24

Paid to Sri Jayashubha T. Asst. Prof., CSE a sum of

Rupees Five hundred only

..... by Cash / Cheque No. 248041/24.07.24.....

towards the account of Reimbursement of registration fee to attend FDP

₹ : 500/-.....

Treasurer / Secretary

Manager

Receiver's Signature

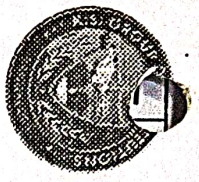
Dr. 25/7/24



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E-mail : principal@kssem.edu.in

Website : www.kssem.edu.in

No. **1288**

Date 5/7/24

*Paid to Sri ... Jayashubha: J ..... a sum of*

*Rupees ... Five hundred only .....*

*..... by Cash / Cheque No. 248044 / 04.07.24.*

*towards the account of ... Reimbursement of registration fee to attend FDP*

₹ : 500/-

Treasurer / Secretary

Manager

Receiver's Signature

*[Signature]*  
8/7/24

Recommendation of the Principal:

*[Signature]*





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No. **1288**

Date 5/7/24

*Paid to Sri... Nagaveni... B. Nimbal, Asso Prof, CSE..... a sum of*

*Rupees ..... One thousand only.....*

*..... by Cash / Cheque No. 248043/04.07.24.....*

*towards the account of... Reimbursement of registration fee to attend FDP*

₹: 1000

Treasurer / Secretary

Manager

*[Signature]*  
Receiver's Signature



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E-mail : principal@kssem.edu.in Website : www.kssem.edu.in



No. **1859**

Date 29/7/24

Paid to Sri ..... *Chandana: V.S., Asst Prof, CSE* ..... a sum of

Rupees ..... *Five hundred only* .....

..... by *Cash / Cheque No. 248084/19.07.24* .....

towards the account of ..... *Reimbursement of registration fee to attend FDP* .....

₹ : ..... *500/-* .....

Treasurer / Secretary

Manager

Receiver's Signature

*Cux*



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# K.S. SCHOOL OF ENGINEERING & MANAGEMENT

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E-mail : principal@kssem.edu.in Website : www.kssem.edu.in

No. **1360**

Date 27/7/24

Paid to Sri ..... Bindu.K.P., Asst Prof., CSE ..... a sum of

Rupees ..... Five hundred and ninety only .....

..... by Cash / Cheque No. .... 248085/19.07.24 .....

towards the account of ..... Reimbursement of registration fee to .....  
attend NPTEL Course

₹ : ..... 590/- .....

Treasurer / Secretary

Manager

Receiver's Signature

*[Handwritten Signature]*

Recommendation of the Principal:

*[Handwritten Signature]*



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E-mail : principal@kssem.edu.in Website : www.kssem.edu.in



No. **1287**

Date 5/1/24

Paid to Sri Kavitha K.S., Asst Prof., CSE ..... a sum of

Rupees One thousand only .....

..... by Cash / Cheque No. 248042/04.07.24.....

towards the account of Reimbursement of registration fees.....  
attend FDP

₹ : 1,000/-.....

Treasurer / Secretary

Manager

Kavitha  
Receiver's Signature

Recommendation of the Principal:

P



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#15, Near Vajarahalli, Mallasandra, off Kanakapura Road, Bengaluru - 560 109

E-mail : principal@kssem.edu.in

Website : www.kssem.edu.in

No. **1288**

Date 5/7/24

Paid to Sri ... Nagaveni: B. Nimbai, Asso Prof., CSE ..... a sum of

Rupees ..... One thousand ..... only .....

..... by Cash / Cheque No. 248043/04.07.24 .....

towards the account of ... Reimbursement of registration fee to ...  
attend FDP

₹: 1000/- .....

Treasurer / Secretary

Manager

Receiver's Signature





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E-mail : principal@kssem.edu.in

Website : www.kssem.edu.in

No. **1184**

Date 24/5/24

*Paid to Sri Rashmi H.R., Asso Prof, Civil Engg..... a sum of*

*Rupees Three thousand only.....*

*..... by Cash / Cheque No. 247912/15.05.24*

*towards the account of Reimbursement of registration fee for attending International conference*

₹: 3,000/-.....

Treasurer / Secretary

Manager

*Rashmi H.R.*  
Receiver's Signature



**APPLICATION FORM FOR ATTENDING FACULTY DEVELOPMENT PROGRAM /  
CONFERENCE / SEMINAR / WORKSHOP**

Name of the Faculty	Dr. Rashmi H.R.
Department	Civil Engineering
Designation	Associate Professor.
Name of the Program: (attach Brochure)	International conference on Advances in Environmental Sustainability Energy & Earth Science
Organizing Institution and Address;	SRM, University, Andhrapradesh
Dates & Duration of the program	14 - 16 March 2024
Registration Fee:	3000/-
Sponsoring Agency (if any)	AICTE, DST, VGST, VTU, Others (specify)
If a paper is being presented, Title of the paper (Submit a copy of the paper)	Technological advances in leachate detection & Monitoring in landfill area.
Details of the last program attended: Name of the Program: Organizing Institution and Address; Dates & Duration of the program Registration Fee:	AESEE - 2024. SRM University 14 - 16 march 2024 3000/-
Justification and Value addition:	Research.
Recommendation of HOD:	Recommended M. Kelle 25/4
Recommendation of the Principal	K. Rana

<b>PAYMENT DETAILS</b>	CHO/VR No	247912	15.05.24
	AMOUNT	3000/-	

*[Signature]*  
TREASURER

*[Signature]*  
SECRETARY

CFO Recommendation:

May be approved. For kind orders

President/ Secretary

*[Signature]*

*[Signature]*  
14/5/24





# 1st INTERNATIONAL CONFERENCE ON



# ADVANCES IN ENVIRONMENTAL SUSTAINABILITY, ENERGY AND EARTH SCIENCE (AESEE-2024)

## About SRM University-AP

SRM University-AP, Andhra Pradesh is a multi-disciplinary research-intensive institute combining academic rigor, evolving research ecosystem, and pioneering faculty. As a leading tertiary education institution, SRM-AP has been challenging the conventional learning ecosystem since its inception to create a novel avenue where passion for wisdom meets purpose and excellence.

## About the Department

The Department of Environmental Science & Engineering, SRM University-AP is one of the leading departments under the School of Engineering & Sciences in both teaching & research. It is multidisciplinary in nature with diverse faculty from a spectrum of specializations of global importance and aligned with United Nations Sustainable Development Goals (UNSDGs): ecology & biodiversity of terrestrial and aquatic ecosystems, waste resource recovery & management, climate change, bioenergy, circular economy, biogeochemistry, forest ecology, phytoremediation, microplastics, enzymology, coastal hydrogeology, metal recovery & e-waste, biotechnology for pollution prevention, etc.

## About the Conference

Most of challenges of the modern-day world are climate change, ecological degradation, deforestation, solid waste management, energy crisis, microplastics, pollution etc. stem from an imbalance between environmental protection and economic development. In this context, SDGs and ecosystem restoration are the global calls for achieving sustainability to ensure peace and prosperity by 2030. In order to achieve the targets of SDGs, it is important to leverage on the frontier areas of science and technology and join hands with different stakeholders for equal growth in all the sectors. This conference aims to bring together various experts in the fields of environmental sustainability, energy and earth science for a sustainable future.

## Conference Objectives

- ▶ To discuss frontier areas of research and disseminate scientific information in the fields of environmental sustainability, energy and earth science.
- ▶ To identify and address the challenges to attain the environmental sustainability, and
- ▶ To share, learn and connect with the leading experts from academia, industry, policy makers, scientists and other professionals.

## Chief Patrons

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 Dr P Sathyanarayanan, Pro-Chancellor, SRM University-AP  
 Prof. Manoj K Arora, Vice Chancellor, SRM University-AP

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 Prof. Raman Sukumar, Indian Institute of Science, Bengaluru  
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 Prof. S M Sundarapandian, Pondicherry University  
 Dr Khalid Rehman Hakeem, King Abdulaziz University, Saudi Arabia  
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 Dr M D Behera, IIT Kharagpur  
 Dr C Sudhakar Reddy, NRSC-ISRO  
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 Dr Pranab Deb, IIT Kharagpur

## Chairman

Dr Rangabhashiyam Selvasembian

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Dr Karthik Rajendran  
 Dr Shoji D Thottathil  
 Dr Kousik Das  
 Dr Deep Raj  
 Dr Deblina Dutta  
 Dr Debajyoti Kundu  
 Dr Saikat Sinha Ray  
 Dr Niravkumar Praduma Raval  
 Dr Raviteja KVNS

## Organising Secretaries

Dr Pankaj Pathak  
 Dr Javid Ahmad Dar  
 Dr Subashree Kothandaraman

## Abstract Submission Form

<https://forms.gle/zNmuA796BkaupkSP9>

## Our Publication Partners



## Themes of the Conference

- ▶ Biodiversity and Climate Action
- ▶ Earth Processes & Climate Change
- ▶ Carbon Sequestration and Net-Zero Targets
- ▶ Circular Economy and Resource Recycling
- ▶ Water Resources & Biogeochemistry
- ▶ Lifestyle for Environmental Sustainability
- ▶ Disaster and Risk Management
- ▶ Green Technologies for Sustainable Solutions
- ▶ Biotechnology for Pollution Prevention
- ▶ Emerging Contaminants & Remediation Technologies
- ▶ Smart Agricultural Solutions for Sustainability
- ▶ Energy Conversion & Management
- ▶ Women in Science & Engineering
- ▶ Forest Ecology and Urban Greening
- ▶ Remote Sensing for Resource Monitoring

## Important Dates

Conference Date: **Mar 14-16, 2024**  
 Abstract Submission Deadline:  
**Feb 25, 2024**  
 Abstract Accept Intimation: **Feb 28, 2024**  
 Last Date for Registration & Payment of Fee:  
**Feb 29, 2024**

For further information related to conference can be send to [conf.aesee@srmap.edu.in](mailto:conf.aesee@srmap.edu.in)

For more details, visit:  
<https://srmap.edu.in/seas/environmental-science-and-engineering/>  
 For conference, visit:  
<https://srmap.edu.in/aesee-2024/>

## Registration Details

Category	National participants (INR)	International participants (USD)
Students/Research Scholars/Postdocs	1000	300
Faculty/Scientists	3000	300
Industry Person	4000	300

Registration fee includes food, accommodation and conference kit.

"Prizes will be awarded to best papers in both Oral & Poster categories."

"Conference Proceedings will be scopus-indexed, published by Springer."

## Contact

Dr Pankaj Pathak  
 Email: [pankaj.p@srmap.edu.in](mailto:pankaj.p@srmap.edu.in)  
 Tel: +91-7049606158

Dr Javid Ahmad Dar  
 Email: [javidahmad.d@srmap.edu.in](mailto:javidahmad.d@srmap.edu.in)  
 Tel: +91-6005133959

Dr Subashree Kothandaraman  
 Email: [subashree.k@srmap.edu.in](mailto:subashree.k@srmap.edu.in)  
 Tel: +91-7006086706



Registration Number 9743266764  
Institute Name SRM AP AESEE Conference  
Name Rashmi H R  
Email rashmihr@kssem.edu.in  
Payment Date 09 Mar 2024, 1:05 PM  
Order Id 17741\_513\_4  
Fee Name Registration Fee  
Designation Associate professor  
Category Faculty  
Name of the College/ University/Institution K S SCHOOL OF ENGINEERING AND MANAGEMENT  
Participation Category Oral Presentation  
Title of Manuscript **Technological Advances in Leachate Leakage Detection and Monitoring in landfill area – A review**  
Abstract (Email to conf.aeese@srmmap.edu.in)  
For the betterment of public health and environmental preservation, technological advancements in leachate leakage monitoring and detection in landfill regions are becoming more and more important. The liquid that results from water interacting with waste products in landfills is known as leachate, and it may include toxic compounds and other contaminants. In order to stop groundwater pollution and environmental deterioration, leachate leak detection and monitoring are crucial. Although landfills are essential locations for disposing of trash, there are serious environmental dangers associated with them because of the possibility of leachate leaks, which can damage soil and water supplies. In order to reduce these environmental risks, leachate leakage must be effectively detected and monitored. The primary technique used in traditional leachate detection methods was manual sampling and analysis, which frequently had drawbacks in terms of accuracy, efficiency, and real-time monitoring capabilities. But as more sophisticated technologies have become available, such remote sensing, geophysical surveys, and sensor networks, the way that leachate leakage is found and tracked has changed dramatically. The technical advancements in leachate leak detection and monitoring in landfill regions are highlighted in this abstract.  
Keywords: Leachate, Leakage Detection, Monitoring, Landfill Areas, Remote Sensing, Geophysical Surveys, Machine Learning.  
Theme Emerging Contaminants & Remediation Technologies  
Accommodation Required No  
Date of Arrival (If accommodation is Yes) -  
Date of Departure (If accommodation is Yes) -  
Alternate Contact Number 8123389299  
Payment Mode Online



ent Breakup

Registration Fee

₹3,000.00

Paid Amount ₹3,000.00

\*This fee is directly transferred to the institute account. In case you have concerns, please contact the institute directly.  
This is system generated receipt and does not require a signature.



**1<sup>st</sup> International Conference on  
Advances in Environmental Sustainability, Energy and Earth Science (AESEE-2024)**

Organised by  
Department of Environmental Science and Engineering  
SRM University-AP, Andhra Pradesh

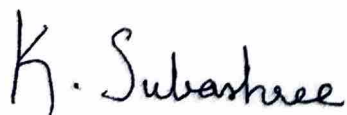
# CERTIFICATE OF PRESENTATION

This is to certify that ~~Mr./Ms./Dr~~

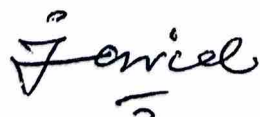
Dr. Rashmi HR

from K S SCHOOL OF ENGINEERING AND MANAGEMENT has presented the research entitled  
Technological advances in leachate leakage detection and monitoring in landfill area – A review

(~~Oral/Poster presentation~~) at the first *International Conference on Advances in Environmental Sustainability, Energy and Earth Science (AESEE-2024)* held during March 14-16, 2024 at  
SRM University-AP, Andhra Pradesh, India.



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**Dr Rangabhashiyam Selvasembian**  
Chairperson



## **Technological Advances in Leachate Leakage Detection and Monitoring in landfill area – A review**

Rashmi H R<sup>1</sup>, C P Devatha<sup>2</sup>, Manjunath R<sup>3</sup>

<sup>1</sup>KSSEM, Bangalore, India

<sup>2</sup>NITK, Surathkal, India

<sup>3</sup>BMSCE, Bangalore, India

\*Email: rashmihr@kssem.edu.in

### **Abstract**

For the betterment of public health and environmental preservation, technological advancements in leachate leakage monitoring and detection in landfill regions are becoming more and more important. The liquid that results from water interacting with waste products in landfills is known as leachate, and it may include toxic compounds and other contaminants. In order to stop groundwater pollution and environmental deterioration, leachate leak detection and monitoring are crucial. Although landfills are essential locations for disposing of trash, there are serious environmental dangers associated with them because of the possibility of leachate leaks, which can damage soil and water supplies. In order to reduce these environmental risks, leachate leakage must be effectively detected and monitored. The primary technique used in traditional leachate detection methods was manual sampling and analysis, which frequently had drawbacks in terms of accuracy, efficiency, and real-time monitoring capabilities. But as more sophisticated technologies have become available, such remote sensing, geophysical surveys, and sensor networks, the way that leachate leakage is found and tracked has changed dramatically. The technical advancements in leachate leak detection and monitoring in landfill regions are highlighted in this abstract.

**Keywords:** *Leachate, Leakage Detection, Monitoring, Landfill Areas, Remote Sensing, Geophysical Surveys, Machine Learning.*



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Website : www.kssem.edu.in

No. **1201**

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*Paid to Sri Amrutha Dhinaj, Asst Prof, Civil..... a sum of*

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(NPTEL)

APPLICATION FORM FOR ATTENDING FACULTY DEVELOPMENT PROGRAM /  
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Name of the Faculty	AMRUTHA DHIRAJ
Department	Civil Engineering
Designation	Assistant Professor
Name of the Program: (attach Brochure)	NPTEL (12 weeks) Strategies for Sustainable Design
Organizing Institution and Address;	NPTEL, IIT, Hyderabad
Dates & Duration of the program	Jan - Apr 2024 12 weeks
Registration Fee:	Rs - 1100 / -
Sponsoring Agency (if any)	AICTE, DST, VGST, VTU Others (specify) AICTE
If a paper is being presented, Title of the paper (Submit a copy of the paper)	
Details of the last program attended:	
Name of the Program:	NPTEL (12 weeks) Admin
Organizing Institution and Address;	Special Concretes
Dates & Duration of the program	IIT, Madras
Registration Fee:	Jul - Apr 2023, 12 weeks Rs - 1100 / -
Justification and Value addition:	Sustainable Design by Prof Shrivaji is highly recommended & useful.
Recommendation of HOD:	Recommended with kelle 15/5/24
Recommendation of the Principal	K. Ramesh

PAYMENT DETAILS	CHQ/VR No.	47926	870524
	AMOUNT Rs.	1100/-	

TREASURER  
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CFO Recommendation:

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15/5/24



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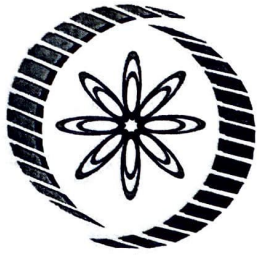
Course	Amount
Strategies for Sustainable Design	₹ 1100

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Transaction ID	order_NXB5hLMVj7LoCu
Reference ID	pay_NXB9OjrmXT1eZe
Date	05/02/2024 16:44:35 IST
Total Amount	₹ 1100

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**(12 week course)**

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NPTEL, Coordinator  
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*towards the account of ... Reimbursement ... of ... Registration Fee for  
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RS. 5000/-

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1

**APPLICATION FORM FOR ATTENDING FACUTY DEVELOPMENT PROGRAM / CONFERENCE / SEMINAR / WORKSHOP**

Name of the Faculty	Dr. Rashmi. H. R
Department	Civil Engineering
Designation	Associate Professor.
Name of the Program: (attach Brochure)	"Green Chemistry. solutions for sustainable future"
Organizing Institution and Address;	GITAM, Bangalore
Dates & Duration of the program	20 <sup>th</sup> & 22 <sup>nd</sup> September 2023
Registration Fee:	2500/-
Sponsoring Agency (if any)	AICTE, DST, VGST, VTU, Others(specify)
If a paper is being presented, Title of the paper (Submit a copy of the paper)	"A Review on treatment of wastewater by green synthesis of nanoparticles".
Details of the last program attended:	
Name of the Program:	Green chemistry solutions for sustainable future
Organizing Institution and Address;	GITAM, Bangalore
Dates & Duration of the program	20 <sup>th</sup> & 22 <sup>nd</sup> September.
Registration Fee:	2500/-
Justification and Value addition:	Career growth
Recommendation of HOD:	Recommended with <u>reluctance</u>
Recommendation of the-Principal	<u>1. R. Ramesh</u>

① Rs. 2,500/-  
 ② Rs. 2,500/-  
Total Rs. 5,000/-

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*[Signature]*  
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2,500/- (5,000/-)	
<i>[Signature]</i>	<i>[Signature]</i>
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International Conference on

## "GREEN CHEMISTRY SOLUTIONS FOR SUSTAINABLE FUTURE"

Date : 20<sup>th</sup> to 22<sup>nd</sup> September, 2023



Organized by  
Department of Chemistry  
GITAM School of Sciences, GITAM, Bengaluru Campus



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Director, SABIC Research and  
Technology Centre, Bengaluru

### CONFERENCE TOPICS

#### ❖ TRACK 1: ENERGY

- Waste to Energy
- Biomass/Bioenergy
- Renewable energy-conversion and storage
- Alternate fuels/energy
- Clean energy technologies
- Batteries, Fuel Cells, and Super capacitors
- H<sub>2</sub> generation and storage

#### ❖ TRACK 2: MATERIALS

- Green and eco-friendly polymers and materials
- Nano materials for Green Applications
- Green nano technology
- Material Science Engineering and Energy efficient materials
- Photochemistry and electrochemistry
- Catalysis-Recent Developments
- Green synthesis

#### ❖ TRACK 3: ENVIRONMENT

- Green chemistry in the environment
- Environmental Remediation
- Nano remediation and water treatment
- Environmental Sensing, Clean Water, and Desalination
- Sustainable Chemistry and Environmental Science
- Environmental Chemistry and Pollution Control
- Climate change and Global warming

#### ❖ TRACK 4: HEALTH AND OTHERS

- Biomaterials
- Computational Nanomaterials Science
- Green chemistry in other fields
- Applications of Green Chemistry
- Analytical methods in Green Chemistry

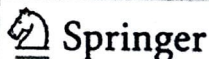
### Important Dates

Call for Abstracts	1 <sup>st</sup> June to 10 <sup>th</sup> Aug 2023
Registration	On or before 15 <sup>th</sup> Sept. 2023
Notification of abstract acceptance	15 <sup>th</sup> August 2023
Deadline for full paper Submission	5 <sup>th</sup> of Sept. 2023
Conference	20, 21, and 22 Sept. 2023

### Registration Fees

PG Students	INR 1000/-
PhD and Postdocs	INR 2000/-
Faculty	INR 2500/-
Industry Delegates	INR 3500/-
Foreign Delegates	USD 50

### Publication in Journals



Biointerface Research in Applied Chemistry

All submitted papers for ICGCSSF 2023 will go through a peer review process by the experts. The accepted and registered full papers will be published in one of the Scopus indexed Journal/Book:

Springer Book Series "Green Chemistry for Sustainable Development", ISSN:2731-0434

"Bio interface Research in Applied Chemistry", Scopus indexed journal ISSN:2069-5837

## PROGRAMME SCHEDULE

Program details, presentation and poster schedules will be available on the conference

website : <https://icgessf.gitam.edu/>

All registered participants will get conference participation certificate.

### Registration Fee payment:

Fee can be paid by using below link or scan code.  
<https://eventpayment.gitam.edu/ICGCSF2023>



### Abstract Submission

<https://forms.gle/gLCHY3H9Dg7Kvyox8>



### Accommodation

Accommodation will be provided in the university hostels for extra payment and it is first come and first serve basis. There are many luxury and budget hotels available for booking in and around Bengaluru and near GITAM.



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**“A review on treatment of wastewater by green synthesis of nanoparticles using different medicinal plant bark extracts”**

Dr Rashmi H R<sup>1</sup>, Dr Vijayalakshmi Akella<sup>2</sup>, Dr Raghuprasad B K<sup>3</sup>

<sup>1</sup>Assistant Professor, <sup>2</sup>Professor, <sup>3</sup>Professor

<sup>1,2,3</sup>Department of Civil Engineering, KSSEM, Bangalore.

**Abstract:** This review paper aims to present an overview of the advancement and implications of green nanotechnology in water purification. As this approach is nontoxic or less hazardous, environmentally friendly, effective, and economical when compared to other traditional physical and chemical procedures. According to ISO and ASTM standards, nanoparticles are dimensionally complex particles having a size between 1 and 100 nm. The organic, inorganic, and carbon-based nanoparticles at the nanometric scale are often categorized as having better qualities than their bigger counterparts in the respective materials. Because of their tiny size, the nanoparticles exhibit improved qualities including high reactivity, strength, surface area, sensitivity, stability, etc. For research and commercial purposes, the nanoparticles are produced using a variety of techniques that may be divided into three primary categories: physical, chemical, and mechanical processes. These procedures have been significantly improved over time hence green nanotechnology is an emerging research topic. Using green pathways and using green adsorbents that differ from the basic materials used to create nanocomposites are two examples. For research to go from bench sizes to large-scale and industrial applications, a low cost of production, the ability to regenerate expressively, and the manufacturing of highly efficient particles are all crucial. Only then can these new approaches truly contribute to society and the environment.

**Keywords:** Nano Particles, heavy metals, Precipitation, SEM, Purification.



INTERNATIONAL CONFERENCE ON

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Dr Rashmi H R

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of.....  
KSSEM, Bangalore

Presented a paper (oral  / poster  ) or participated  during three day INTERNATIONAL CONFERENCE ON  
“Green Chemistry Solutions for Sustainable Future” organised by the Department of Chemistry during  
September 20 to 22<sup>nd</sup> 2023, at GSS, GITAM (Deemed to be University), Bengaluru.

Convenor  
HOD of Chemistry Dept.  
Dr. Ch. Srilakshmi

Principal  
Dr. Atul Kumar

Pro Vice Chancellor  
Dr. K. N. S. Acharya





**APPLICATION FORM FOR ATTENDING FACUTY DEVELOPMENT PROGRAM /  
CONFERENCE / SEMINAR / WORKSHOP**

Name of the Faculty	Dr. Rashmi. H. R
Department	Civil Engineering
Designation	Associate Professor.
Name of the Program: (attach Brochure)	"Green Chemistry solutions for sustainable future."
Organizing Institution and Address;	GITAM, Bangalore.
Dates & Duration of the program	20 to 22 <sup>nd</sup> September 2023
Registration Fee:	2500/-
Sponsoring Agency (if any)	AICTE, DST, VGST, VTU, Others(specify)
If a paper is being presented, Title of the paper (Submit a copy of the paper)	Evaluation of slope stability in landfill slope.
Details of the last program attended: Name of the Program: Organizing Institution and Address; Dates & Duration of the program Registration Fee:	"Green Chemistry solutions for sustainable future" GITAM, Bngl. 20 to 22 <sup>nd</sup> sep 2023 2500/-
Justification and Value addition:	Career growth
Recommendation of HOD:	Recommended <u>Wkelle</u>
Recommendation of the Principal	<u>15. Ramo</u>

CEO Recommendation:

May be approved. For kind orders

*[Signature]*  
11/2/24

President/ Secretary

*[Signature]*  
02/02/24

PAYMENT DETAILS	
CHO/VR No.	245704
DI	02.02.24
AMOUNT	2,500/- (5,000/-)
<i>[Signature]</i>	<i>[Signature]</i>
SECRETARY	TREASURER



# “A review on evaluation of slope stability in landfill slopes”

Dr. Rashmi H R<sup>1</sup>, Dr C P Devatha.

<sup>1</sup>Associate Professor, Department of Civil Engineering, K.S.School of Engineering and management, Bangaluru., Karnataka, India. Email: rashmihr@kssem.edu.in

<sup>2</sup>Associate Professor, Department of Civil Engineering, NITK, Surathkal, Karnataka, India.  
Email: devathafce@nitk.edu.in

**Abstract:** Evaluation of landfills is a vital component to ensure their sustainability during their lifespan. Slope stability is one of the major parameters to be assessed for landfill stability. This paper discusses the evaluation of slope stability in landfill slopes, assessing various factors such as geotechnical, material properties, deformation characteristics, and stability analyses to evaluate the stability of landfill slopes. Field studies are employed to collect and analyze the data. The results of the field analysis are then compared to numerical models to access and mitigate potential instability. The results of this study provide a basis for decision-making processes regarding landfill slope stability and ultimately landfill sustainability.

**Keywords:** slope stability”, “landfill”, “evaluation”, “field studies”.

## Introduction

The evaluation of slope stability in landfill slopes is paramount in ensuring the safety and long-term viability of waste disposal sites. Landfills are critical infrastructures that manage the disposal of vast amounts of solid waste, and any failure in slope stability can lead to disastrous consequences such as landslides and environmental pollution. This manuscript aims to assess various methods and techniques for evaluating slope stability in landfill slopes. By analyzing the current literature and case studies, this study seeks to provide valuable insights into the subject of slope stability evaluation in landfill slopes.

### A. Overview of landfill slopes and the need to evaluate slope stability

Landfill slopes play a crucial role in the management and containment of waste materials. The slopes are designed to ensure the stability of the landfill and prevent any potential hazards, such as landslides or slope failures. To guarantee the safety and efficiency of landfill slopes, it is essential to evaluate their stability. This evaluation involves various factors, including the geotechnical properties of the waste material, the slope geometry, and environmental conditions. Furthermore, evaluating slope stability allows for the identification of potential failure mechanisms and the implementation of necessary measures to mitigate any risks.

### B. Importance of slope stability evaluation for environmental and safety reasons

Slope stability evaluation is of paramount importance for both environmental and safety reasons in landfill slopes. From an environmental standpoint, the stability assessment ensures that no adverse consequences, such as landslides or soil erosion, occur, preventing the contamination of surrounding ecosystems.





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towards the account of registration fee for attending FDP

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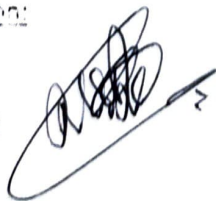
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Name of the Faculty	AMRUTHA DHIRAJ
Department	CIVIL DEPARTMENT
Designation	ASSISTANT PROFESSOR
Name of the Program: (attach Brochure)	NPTEL (12 weeks) Jul-Oct 2023 Admixtures and Special Concretes
Organizing Institution and Address;	NPTEL, IIT MADRAS
Dates & Duration of the program	July - October 2023 12 weeks
Registration Fee:	Rs. 11001-
Sponsoring Agency (if any)	AICTE, DST, VGST, VTU, Other (specify) AICTE
If a paper is being presented, Title of the paper (Submit a copy of the paper)	
Details of the last program attended:	
Name of the Program:	NPTEL (12 weeks) Concrete
Organizing Institution and Address;	IIT, Madras Technology
Dates & Duration of the program	Jan-Apr 2023, 12 weeks
Registration Fee:	Rs. 11001-
Justification and Value addition:	Related to Civil Engg.
Recommendation of HOD:	Kindly reimburse. <u>nikkelle</u>
Recommendation of the Principal	<u>I. S. Ramesh</u>

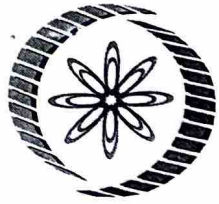
CFO Recommendation:

President/ Secretary



<b>PAYMENT DETAILS</b>	
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**Admixtures and Special Concretes**

*with a consolidated score of 62 %*

Prof. Andrew Thangaraj  
NPTEL Coordinator  
IIT Madras



(Jul-Oct 2023)

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Duration of NPTEL course : 12 Weeks

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with a consolidated score of **62** %

Online Assignments	18.6/25	Proctored Exam	43.89/75
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**Prof. Andrew Thangaraj**

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E-mail : principal@kssem.edu.in Website : www.kssem.edu.in

No. 1078

Date 23/3/2024

Paid to Sri K. Senthil Babu, Prof & HOD, ECE..... a sum of

Rupees Four thousand five hundred and seventy.....

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towards the account of Expenses incurred for celebrating  
Women's Day.....

₹: 4,576/-.....

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Manager

Receiver's Signature





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DEPARTMENT OF ELECTORNICS AND COMMUNICAITON ENGINEERING

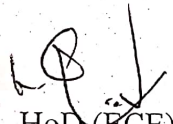
## Women's Day Celebration Expenditure

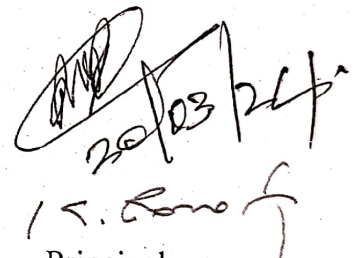
Sl. No	Item Description	Amount Spent in INR
1.	Honorarium	2,000/-
2.	Saplings	225/-
3.	Refreshments	760/-
4.	Cake	500/-
5.	Materials for Fun Activities	375/-
6.	Chocolates	466/-
7.	IEEE Banner	250/-
	<b>Total</b>	<b>4,576/-</b>

Total Amount Spent = Rs. 4,576/-

Amount to be Received is Rs. 4,576/-



  
IEEE Branch Counselor

  
HoD (ECE)

  
Principal

**Professor & Head**  
Dept. of Electronics & Communication Engineering  
K.S. School of Engineering & Management  
Bangalore - 560 109

**Dr. K. RAMA NARASIMHA**  
Principal/Director  
K S School of Engineering and Management  
Bengaluru - 560 109

PAYMENT DETAILS	
CHQ/VR No.	247804 Dt: 21.03.24
AMOUNT	4,576/-
 SECRETARY	 TREASURER



From

Dr. Karthik P  
Professor,  
IEEE Branch Counsellor  
KSSEM, Bengaluru - 109

To

The Principal  
KSSEM, Bengaluru - 109.

Through

HoD  
Electronics & Communication Engineering

Respected Sir,

Subject: Request for financial support to conduct IEEE Student Branch International Women's Day Celebrations and Technical Talk.

As a part of IEEE every IEEE Student Branch has to celebrate International Women's Day and Conduct Technical and Non-Technical events. In connection to this we are celebrating the Women's Day celebration and a seminar on Awareness of the Women's Health for our students and Faculty will be given by Medical Doctor. After the seminar we planned cake cutting with all the IEEE members in our college on 09-03-2024. The program will start at 10:45am and will continue till 1:00pm.

So, I kindly request you to provide the financial support for the conduction of the above said program in our college.

Also, I request you to provide breakfast and lunch for the resource person and two coordinators on 11- 03- 2024.

Thanking You

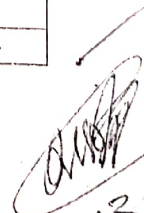
Yours Sincerely

  
Dr. KARTHIK P

Budget for the Event:

Sl.No	Item Description	Amount in INR
1.	Honorarium	2,000/-
2.	Saplings	250/-
3.	Cake	750/-
4.	Refreshments (Tea 50 No's from college canteen)	500/-
5.	Materials for Fun Activities	500/-
6.	Prizes for the Winners in the Activities (Chocolates)	500/-
7.	Miscellaneous	500/-
8.	Banner for IEEE	1000/-
	<b>Total</b>	<b>6,000/-</b>

15.000/-  
6/3/24

  
13/03/24





To meghana akella  
+91 98453 99068

₹2,000

women's day Honorarium

Pay again

Split with friends

Completed

Mar 12, 2024 8:48 AM



Axis Bank 1819



UPI transaction ID  
443869547882

To: VIJAYALAKSHMI AKELLA  
maggie.krishna@okaxis

From: K SENTHIL BABU (Axis Bank)  
ksenthilbabu80@okaxis

Google transaction ID  
CICAgLDd6quwPw

Powered by  
UPI

*Handwritten signature*

*Handwritten initials*

*Handwritten initials*

Pay





Copy



To Nafees Khan Aleem Khan



₹225

Pay again

Split with friends

Completed

Mar 10, 2024 5:55 PM

 Union Bank of India 0216 

UPI transaction ID  
407027773359

To: Nafees Khan Aleem Khan  
paytmqr281005050101vt7oxkqov9z5@paytm

From: G MAHITHA (Union Bank of India)  
galimahithachowdhary@okaxis


Google transaction ID  
CICAgLCdprjoGg

*[Handwritten signature]*

*[Handwritten signature]*

Powered by  


*[Handwritten signature]*







To G H Ravikumar

₹500

cake

Pay again

Split with friends

Completed

Mar 11, 2024 8:36 AM



Union Bank of India 0216



UPI transaction ID

443718595385

To: G H Ravikumar

paytmqr139z5m0ga6@paytm

From: G MAHITHA (Union Bank of India)

galimahithachowdhary@okaxis

Google transaction ID

CICAgLCdvaOfEQ

*Handwritten mark*

*Handwritten signature*

Powered by  
**UPI**

*Handwritten signature*

G Pay



Scanned with OKEN Scanner





To Royal Mart Super MarketRaghuvanahalli C3

₹75

fun activities

Pay again

Split with friends

Completed

Mar 10, 2024 6:10 PM



Union Bank of India 0216



UPI transaction ID

443641475006

To: Royal Mart Super MarketRaghuvanahalli C3

q603846248@ybl

From: G MAHITHA (Union Bank of India)

galimahithachowdhary@okaxis

Google transaction ID

CICAgLCdlvyfCQ

Powered by



Scanned with OKEN Scanner





To harshini A  
+91 98806 55919

₹200

fun activities

Pay again

Split with friends

Completed

Mar 11, 2024 10:47 AM



Union Bank of India 0216



UPI transaction ID

443734801489

To: HARSHINI A

harshinia2003@okaxis

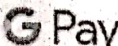
From: G MAHITHA (Union Bank of India)

galimahithachowdhary@okaxis

Google transaction ID

CICAgLCdy4z2Vw

Powered by  


 Pay



Scanned with OKEN Scanner



375/-



To harshini A  
+91 98806 55919

₹100



fun activities

Pay again

Split with friends

Completed

Mar 11, 2024 10:52 AM

 Union Bank of India 0216 

---

UPI transaction ID  
443733097593

To: HARSHINI A  
harshinia2003@okaxis

From: G MAHITHA (Union Bank of India)  
galimahithachowdhary@okaxis

Google transaction ID  
CICAgLCdy5LHfw

*Handwritten mark*

*Handwritten signature*

Powered by  


*Handwritten signature*

G Pay







To Royal Mart Super MarketRaghuvanahalli C2

₹466

chocolates

Pay again

Split with friends

Completed

Mar 10, 2024 6:09 PM



Union Bank of India 0216



UPI transaction ID

407070074278

To: Royal Mart Super MarketRaghuvanahalli C2

q435755352@ybl

From: G MAHITHA (Union Bank of India)

galimahithachowdhary@okaxis

Google transaction ID

CICAgLCd5suaVA

*Handwritten mark*

*Handwritten signature*

*Handwritten signature*

Powered by



Scanned with OKEN Scanner





To Pruthvi A  
+91 91130 99686

₹250

IEEE Banner

Pay again

Split with friends

Completed

Mar 13, 2024 4:00 PM



Axis Bank 1819

UPI transaction ID  
443931217105

To: PRUTHVI A  
apruthvi3@oksbi

From: K SENTHIL BABU (Axis Bank)  
ksenthilbabu80@okaxis

Google transaction ID  
CICAgLC94tHmLA

Powered by  
UPI

G Pay



*AS*

*K. Senthil Babu*

*K. Senthil Babu*







**KSSEM**

**K.S. GROL. OF INSTITUTIONS**  
**K.S. SCHOOL OF ENGINEERING AND MANAGEMENT**

(approved by AICTE & Recognised by VTU)  
#15/1, Mallasandra, Off. Kanakapura Road, Bengaluru - 560 109

Phone : H.O. : 26678053, 26678735  
College : 28425012, 28425013

No. 0887

Date 24/01/24

Paid to Sri ..... Ms. Renuka V. Tali, Asst. Prof., ECE..... a sum of

Rupees ..... One thousand one hundred only.....

..... by Cash / Cheque No. 244496/23.01.24.....

towards the account of ..... Reimbursement of registration fee.....  
for NPTEL course

RS. 1,100/-.....

Treasurer / Secretary

Manager

  
Receiver's Signature




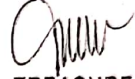


Date: 18/01/2024

To,  
The Principal/Director  
KSSEM, Bengaluru

Through,  
HOD, ECE  
KSSEM, Bengaluru

Respected Sir,

PAYMENT DETAILS	
CHQ/VR No. 244496	Dr.: 23.01.24
AMOUNT Rs.	1,100/-
 SECRETARY	 TREASURER

**Subject: Requesting for a reimbursement of registration fees paid for the NPTEL Course.**

I Renuka V Tali, Assistant Professor, Dept. of ECE, K.S.S.E.M, Bengaluru, has taken up the NPTEL course in the subject "Educational Leadership" 12 weeks during the period July to October 2023 and completed the course successfully with 100% score also earned the Title Topper (Top 1%) Gold Elite certificate.

So, in this regard, I would request you to kindly reimburse the registration amount paid and do the needful.

Sl.No	Name of the Faculty	Course Taken	Registration amount Paid
1	Renuka V Tali	Educational Leadership from IIT Kharagpur	1100.00

**Attachment:**

1. Certificate
2. Hall Ticket
3. Payment receipt

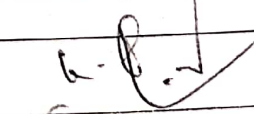
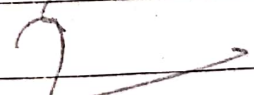
Thanking You

*Recommended & forwarded  
to principal for approval  
18/1/24*

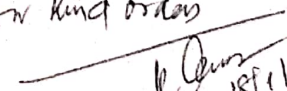
*R. Tali*  
18/1/24  
Yours faithfully  
Mrs. Renuka V Tali




**APPLICATION FORM FOR ATTENDING FACULTY DEVELOPMENT  
PROGRAM/ CONFERENCE / SEMINAR / WORKSHOP**

Name of the Faculty	Renuka V Tali
Department Designation	Dept. of ECE Assistant Professor
Name of the Program(attach Brochure)	NPTEL Course on "Educational Leadership"
Organizing Institution and Address	IIT Kharagpur
Dates and Duration of the program	July to October (12 Weeks)
Registration Fees:	1100/-
Sponsoring Agency(if any)	SWAYAM, Funded by MoE, Govt. of INDIA
If the paper is presented, Title of the paper (submit a hard copy of the paper)	
<b>Details of the last program attended:</b> Name of the Program: Organizing Institution and Address: Dates and Duration of the program: Registration Fees:	NIL
Justification and Value addition:	In the context of Global, Multicultural & Virtual work environments; domain knowledge alone is not a sufficient guarantee for professional success. This course helped me to understand how educational leadership can transform and enhance the effectiveness of educational institutions. This course focused on academic community and encouraged to develop various skills, competencies, abilities that enhanced leadership skills. It helped to develop awareness into self-motivation, reflective practices, critical thinking and positive plans of actions for enhancing leadership impact and institutional effectiveness.
Recommendation of HOD:	Recommended. 
Recommendation of Principal:	15. 

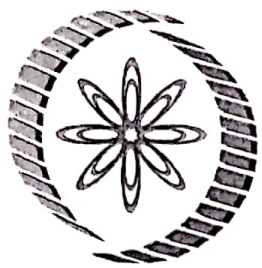
CEO Recommendation: May be kindly approved. For kind orders

  
18/11/24

President/Secretary:

  
23/11/24





Elite

# NPTEL Online Certification

(Funded by the MoE, Govt. of India)

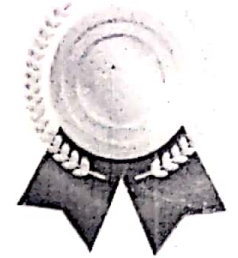


This certificate is awarded to

**RENUKA V TALI**

for successfully completing the course

**Educational Leadership**



with a consolidated score of **100** %

Online Assignments	24.69/25	Proctored Exam	75/75
--------------------	----------	----------------	-------

Total number of candidates certified in this course: 1363

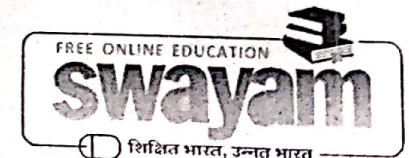
Jul-Oct 2023

(12 week course)

**Prof. Haimanti Banerji**  
Coordinator, NPTEL  
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL23HS143S732304257

To verify the certificate

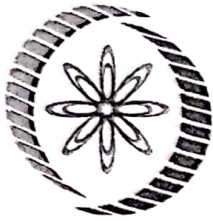


No. of credits recommended: 3 or 4



Scanned with OKEN Scanner





# NPTEL-AICTE Faculty Development Programme

(Funded by the MoE, Govt. of India)



*This certificate is awarded to*

**RENUKA V TALI**

*for successfully completing the course*

**Educational Leadership**

*with a consolidated score of 100 %*

Prof. Andrew Thangaraj  
NPTEL Coordinator  
IIT Madras



(Jul-Oct 2023)


Roll No: NPTEL23HS143S732304257



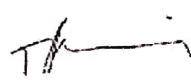

Duration of NPTEL course : 12 Weeks

The candidate has studied the above course through MOOCs mode, has submitted online assignments and passed proctored exams. This certificate is therefore acceptable for promotions under CAS as per AICTE notifications dated 24<sup>th</sup> July 2018, similar to other refresher / orientation courses.  
F. AICTE / RIFD / FDP through MOOCs / 2018





<b>MORNING SESSION (FN)</b>	<b>National Programme on Technology Enhanced Learning</b>	 <b>NPTEL</b>
<b>Hall Ticket For</b>	2023 Oct: HS143 Educational Leadership - Online	

Candidate Name	Renuka v tali					
Roll No	NOC23HS143S732304257					
Date of Birth	29-06-1982					
PwD Status	No	Compensatory Time Required	N.A	Scribe Required	N.A	
Exam Date	Sunday, 29 October, 2023					
Reporting Time	08:00 am	Gate Closure	09.30 am			
Exam Timing	09:00 am	Shift	FN			
Test Centre Name	BITBYTECH Solutions					
Test Centre Address	C348, 3rd Floor, 1st Main, Police Station Road, Peenya, 1st Stage, Bengaluru, Karnataka, India - 560058					
 NPTEL Coordinator						

**NPTEL EXAM - 29 OCTOBER, 2023**  
**General instructions for candidates - FN**  
(All timings mentioned here are in IST)

**DRESS CODE:** Candidates are expected to come in professional attire to write the exams.  
Candidates wearing SHORTS will NOT be permitted inside the exam hall

**AT THE EXAM CENTRE, IF YOU ENCOUNTER ANY ISSUES WITH RESPECT TO THE COMPUTER OR EXAM OFFICIALS, KINDLY CONTACT THE NPTEL EXAM REPRESENTATIVE, WHO WILL BE AVAILABLE AT THE CENTRE.**

1. The Hall Ticket must be presented for verification along with one original photo identification (not photocopy or scanned copy). Examples of acceptable photo identification documents are School ID, College ID, Employee ID, Driving License, Passport, PAN card, Voter ID, Aadhaar-ID. Printed copy of the hall ticket and original photo id card should be brought to the exam centre. Hall ticket and id card copies on the phone will not be permitted.
2. This Hall Ticket is valid only if the candidate's photograph and signature images are legible. To ensure this, print the Hall Ticket on A4 sized paper using a laser printer, preferably a colour photo printer.
3. Please report to the examination venue by 08:00 am; CANDIDATES WILL NOT BE ALLOWED TO ENTER THE EXAMINATION HALL AFTER 09.30am.
4. Candidates will be permitted to appear for the examination ONLY after their credentials are verified by center officials.

**P.T.O.**





Renuka Tali &lt;renuka.v.tali@kssem.edu.in&gt;

**Fwd: Exam Registration: Payment Successful**

1 message

Wed, Jan 17, 2024 at 11:29 PM

Renuka v tali <renukavtali@gmail.com>  
To: Renuka Tali <renuka.v.tali@kssem.edu.in>

----- Forwarded message -----

From: <exam@nptel.iitm.ac.in>  
Date: Mon, Aug 14, 2023 at 12:49 PM  
Subject: Exam Registration: Payment Successful  
To: <renukavtali@gmail.com>

Hello Renuka v tali,

**Your payment for the following course(s) is successful.**

Course	Amount
Educational Leadership	₹ 1000

Here are your transaction details:

Transaction ID	eb5e52fa89cd40609ec0d3473185f2c0
Billdesk Reference	ZUR31325514948
Date	14/08/2023 12:45:43 IST
Total Amount	₹ 1000

For any grievance contact support : support@nptel.iitm.ac.in  
**If your transaction was successful, payment receipts will be available once the form closes.**







IIT Madras requested money from you

₹100

NPTEL FDP Payment Jul Oct  
2023 Exams

Split with friends

Completed

Nov 30, 2023 6:20 PM



Axis Bank 6861



UPI transaction ID

333423107191

To: IIT Madras

iitmadras.rzp@axisbank

From: RENUKA TALI (Axis Bank)

renukavtali-1@okaxis

Google transaction ID

CICAgNDXkePUTw

Powered by







**K.S. GROL. OF INSTITUTIONS**  
**K.S. SCHOOL OF ENGINEERING AND MANAGEMENT**

Phone : H.O. : 26678053, 26678735  
 College : 28425012, 28425013

(approved by AICTE & Recognised by VTU)  
 #15/1, Mallasandra, Off. Kanakapura Road, Bengaluru - 560 109

No.

0805

Date

30/12/23

Paid to Sri ..... P. Karthik, Prof, ECE..... a sum of  
 Rupees .... Four thousand seven hundred and ninety.....  
 ..... five only..... by Cash / Cheque No. 244406 / 20.12.23.....  
 towards the account of ..... Expenses towards conducting.....  
 Seminar.....

RS

4,795/-

Treasurer / Secretary

Manager

Receiver's Signature





From

Date: 17-10-23

Dr.K Senthil Babu  
Professor & Head,  
Dept. of ECE,  
KSSEM, Bengaluru – 109

To

The Principal  
KSSEM, Bengaluru – 109.

Respected Sir,

Subject: Request for financial support to conduct Technical Talk.

As a part of **National Innovation Day** the institutions have to conduct an event to ignite the minds and inculcate the practice of research in the students. In this regard the Department of Electronics and Communication Engineering would like to conduct a Technical Talk on **“Smart Sensors for IoT Applications”** on 03-11-2023 from 10:45am to 12:15pm. The resource person for this event is **Dr. Abha Misra**, Associate Professor, Instrumentation and Applied Physics, IISc Bangalore.

Also, I kindly request you give permission to have lunch from our hostel mess for the resource person and one coordinator.

So, I kindly request you to provide the financial support for the conduction of the above said program in our college.

Thanking You

Yours Sincerely

Dr. K. Senthil Babu


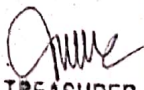
Budget for the Event:

S.NO	Item Description	Amount in INR
1.	Honorarium	2,000/-
2.	Local Travel Arrangements (IISc to College)	2,500/-
3.	Miscellaneous	500/-
Total		5,000/-

① 4395/-

② 400/-

Total → 4795/-

PAYMENT DETAILS	
CHQ/VR No. 244706	DI.: 20-12-23
AMOUNT Rs. 4795/-	
 SECRETARY	 TREASURER



# K S SCHOOL OF ENGINEERING AND MANAGEMENT


DEPARTMENT OF ELECTORNICS AND COMMUNICAITON ENGINEERING


## Technical Talk Expenditure

Sl.No	Item Description	Amount Spent in INR
1.	Honorarium	2,000/-
2.	Inauguration Sapling	250/-
3.	Travel Bill (Cab)	2,145/-
	<b>Total</b>	<b>4,395/-</b>

Amount to reimbursed is Rs. 4,395/- only

  
IEEE Branch Counselor

  
HoD (ECE)

  
Principal





**KSSEM**

**K.S. GROUP OF INSTITUTIONS**  
**K.S. SCHOOL OF ENGINEERING AND MANAGEMENT**

(approved by AICTE & Recognised by VTU)  
#15/1, Mallasandra, Off. Kanakapura Road, Bengaluru - 560 109

H.O. : 26678053, 26678735  
College : 28425012, 28425013

No. 0662

Date \_\_\_\_\_

Paid to Sri ..... Dr. Abha Misra, IISc Bangalore ..... a sum of

Rupees Two Thousand only .....

..... by  Cash /  Cheque No.....

towards the account of Innovation Day - Technical Talk .....

I. Ravi

RS. 2,000/- .....

Treasurer / Secretary

[Signature]

Manager

[Signature]

Receiver's Signature  
Dr. Abha Misra



# AUM TRAVELS

Tel: 080-23341011, 41490452  
98454 02784, 9945019020  
E-mail: aumcabs@gmail.com

109, 8th Main, Malleswaram, BANGALORE - 560 055

Cab No. : 6701  
Etiq. A/C  
Driver Name: Mangunath

To M/s. Dr. Abha Mishra  
Ordered by: .....

Closing Date: 03/11/2023 KM Reading 220898 Time 4:30 PM  
Opening Date: 03/11/2023 KM Reading 220812 Time 8:30 AM

Date : 03/11/2023 Party Signature  
Total Hours : .....  
Total Kms. : 26 KM Remarks  
Name in Block Letter: .....

### CASH / CREDIT BILL

PARTICULARS	AMOUNT	
	Rs.	Ps.
..... 8 ..... Hours      ..... 80 ..... Kms	1800	00
Extra Hours @		
Extra Kms. @ 6x12	72	00
Extra Fuel like		
Parking Fee 2 nos	90+90	00
Driver Bata (Between 11 p.m. & 5 a.m.)		
<b>TOTAL :</b>	2052	00
SGST 2.5 % :	46.8	00
CGST 2.5 % :	46.8	00
IGST % :		
<b>GRANDTOTAL :</b>	2145	00

GSTIN No.:  
29ACKPG7093B1Z1

Rupees Two Thousand one Hundred  
Forty five Rupees Only  
For AUM TRAVELS

*[Signature]*

2126



Sapling



Transaction Successful  
10:56 am on 03 Nov 2023

Paid to



A.K NURSERY

₹250



Payment details



Transaction ID

T2311031055586032465718

Debited from



XXXXXX6182

₹250

UTR: 367353995340

Powered by

UPI ✓ YES BANK

h P L

15. 2023







**KSSEM**  
K. S. SCHOOL OF ENGINEERING AND MANAGEMENT

Kammavari Sangham (R) 1952

K. S. GROUP OF INSTITUTIONS

**K. S. SCHOOL OF ENGINEERING AND MANAGEMENT**

Approved by AICTE, New Delhi; Affiliated to VTU, Belagavi, Karnataka; Accredited by NAAC

www.kssem.edu.in

**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

Date: 27-11-2023

Dr.K Senthil Babu  
Professor & Head,  
Dept. of ECE,  
KSSEM, Bengaluru – 109

To  
The Principal  
KSSEM, Bengaluru – 109.

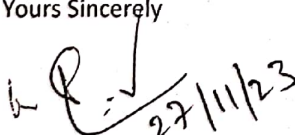
Respected Sir,

Subject: Request for financial support to conduct Motivational Talk to 5<sup>th</sup> sem students

The Department of Electronics and Communication Engg., is planning to organize a motivational talk to the students of 5<sup>th</sup> sem EC on 29<sup>th</sup> November 2023. The Speaker of the talk is Mr Glenson Tony – Alumni of the department. The Talk is on "Student Idea to product". This will give an insight of what parameters to be considered for identifying a project and how to showcase the same in different platforms. So, I kindly request you to provide the financial support for the conduction of the above said program in our college.

Thanking You

Yours Sincerely

  
Dr. K Senthil Babu

Budget for the Event:

S.NO	Item Description	Amount in INR
1.	Sapling	250/-
2.	Honorarium	1,500/-
3.	Miscellaneous	500/-
Total		2250/-






# K S SCHOOL OF ENGINEERING AND MANAGEMENT

DEPARTMENT OF ELECTORNICS AND COMMUNICAITON ENGINEERING

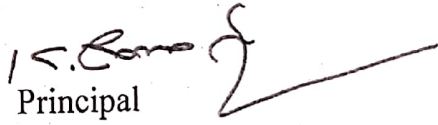
## Motivational Talk Expenditure

Sl.No	Item Description	Amount Spent in INR
1.	Inauguration Sapling	200/-
2.	Tea and Snaks	200/-
	<b>Total</b>	<b>400/-</b>

Amount to reimbursed is Rs. 400/- only

  
IEEE Branch Counselor

  
HoD (ECE)

  
Principal



KSSEM CAMPUS COUNTER  
CHAATS VILLAGE

5545

5542

BILL NO : 39744

DATE: 01/01/00

TIME: 17:09

SI	ITEM NAME	QTY	RATE	AMOUNT
	COFFEE	20PK	10.00	200.00

TOTAL ITEM(S): 1 / QTY: 20 200.00

TOTAL: ₹ 200.00

CASH RECEIVED : 0.00

CREDIT : 200.00

*Handwritten signature and arrow pointing to the right*





To Anupamkumar

₹200

Pay again

Split with friends

✓ Completed

Nov 29, 2023 11:52 AM



Axis Bank 3804



UPI transaction ID

333380173226

To: Anupamkumar

paytmqr281005050101ftbbzdm979d  
z@paytm

From: H N SATISHA (Axis Bank)

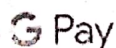
satishgowda1171982@okaxis

Google transaction ID

CICAgNDf6qqiag

*Handwritten signature*  
*H. N. Satisha*

POWERED BY







**KSSEM**

**K.S. GROUP OF INSTITUTIONS**  
**K.S. SCHOOL OF ENGINEERING AND MANAGEMENT**

(approved by AICTE & Recognised by VTU)  
#15/1, Mallasandra, Off. Kanakapura Road, Bengaluru - 560 109

Phone : H.O. : 25678053, 25675735  
College : 28425012, 28425013

No. 0781

Date 19/12/23

Paid to Sri Arunkumar M ..... a sum of

Rupees one thousand one hundred only .....

..... by Cash / Cheque No. 243715/19.12.23 .....

towards the account of reimbursement of FDP registration fees .....

RS. 1100/- .....

Treasurer / Secretary

Manager

Receiver's Signature

M. M. M.  
19/12/23





Date: 06/12/2023

To,  
The Principal/Director  
KSSEM, Bengaluru

Through,  
HOD, ECE  
KSSEM, Bengaluru

Respected Sir,

**Subject: Requesting for a reimbursement of registration fees paid for the NPTEL Course.**

With respect to above said subject, I Dr. Arun Kumar M from the Department of Electronics and Communication Engineering, K S School of Engineering and Management (KSSEM), Bengaluru, have taken up the NPTEL course in the following subject and completed the course successfully.

So, in this regard, I would request you to kindly reimburse the registration amount paid and do the needful.

Sl.No	Name of the Faculty	Course Taken	Registration amount Paid
1	Dr. Arun Kumar M	NPTEL – AICTE: “Accreditation and Outcome Based Learning”	1100.00

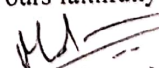
**Attachment:**

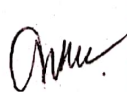
1. Certificate
2. ~~Bank/Receipt~~
2. Payment receipt

Thanking You

15. Romo 2 6/12/23

Yours faithfully

  
Dr. Arun Kumar M

PAYMENT DETAILS	
CHQ/VR No. 243775	DL: 15/12/23
AMOUNT Rs. 1100/-	
SECRETARY	 TREASURER

TREASURER





**APPLICATION FORM FOR ATTENDING FACULTY DEVELOPMENT PROGRAM/  
CONFERENCE / SEMINAR / WORKSHOP**

Name of the Faculty	Dr. Arun Kumar M
Department Designation	Dept of Electronics and Communication, Associate Professor
Name of the Program(attach Brochure)	NPTEL-AICTE: "Accreditation and Outcome Based Learning"
Organizing Institution and Address	Indian Institute of Technology, Kharagpur in association with NPTEL - AICTE
Dates and Duration of the program	8 Weeks
Registration Fees:	Rs. 1100.00
Sponsoring Agency(if any)	NA
If the paper is presented, Title of the paper(submit a hard copy of the paper)	
<b>Details of the last program attended:</b> Name of the Program: Organizing Institution and Address: Dates and Duration of the program: Registration Fees:	Towards an Ethical Digital Society: From Theory to Practice International Institute of Information Technology, Bangalore 4 weeks (Feb-Mar-2023) 1100/-
Justification and Value addition:	Useful for course delivery, NBA and NAAC accreditation process.
Recommendation of HOD:	Recommended for Approval <i>[Signature]</i>
Recommendation of Principal:	<i>K. Ramesh</i>

CEO Recommendation:

May be kindly approved for payment. For kind order  
*[Signature]*  
7/12/23

President/Secretary:  
Registration Fees:

1100/-

*[Signature]*  
07/12/23





Elite

# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**ARUN KUMAR M**

for successfully completing the course

**Accreditation and Outcome Based Learning**



with a consolidated score of **80** %

Online Assignments	19.17/25	Proctored Exam	60.75/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: **1356**

**Aug-Oct 2023**

**(8 week course)**

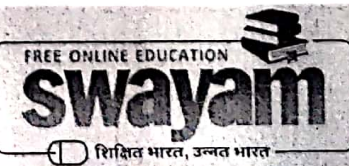
**Prof. Haimanti Banerji**

Coordinator, NPTEL

IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL23GE46S7323C1665

To verify the certificate,



No. of credits recommended: 2 or 3



Scanned with OKEN Scanner





# NPTEL-AICTE Faculty Development Programme

(Funded by the MoE, Govt. of India)



*This certificate is awarded to*

**ARUN KUMAR M**

*for successfully completing the course*

**Accreditation and Outcome Based Learning**

*with a consolidated score of 80 %*

Prof. Andrew Thangaraj  
NPTEL Coordinator  
IIT Madras



(Aug-Oct 2023)

Roll No: NPTEL23GE46S732301665

Duration of NPTEL course : 8 Weeks

The candidate has studied the above course through MOOCs mode, has submitted online assignments and passed proctored exams.  
This certificate is therefore acceptable for promotions under CAS as per AICTE notifications dated 24<sup>th</sup> July 2018, similar to other refresher / orientation courses.

F.No. AICTE / RIFD / FDP through MOOCs / 2017-18



Receipt for successful payment of fees for online courses conducted by NPTEL

---

Name	Arun Kumar M
Email ID	arunmepes@gmail.com
Course name	Accreditation And Outcome Based Learning
Selected Exam Date	Sunday, October 29, 2023

---

Date of payment Sep 02, 2023 - 14:08:08

Payment Reference ID ZHMP1364783322

Transaction ID c49a4203b3e54b809ba7c5aa053b33a1

Course Amount Paid (FDP included if applicable) ₹ 1100

We hereby acknowledge with thanks, the receipt of ₹1100 for the course Accreditation And Outcome Based Learning from the afore-mentioned candidate towards payment for NPTEL Online Certification Exam, details of which are shown above.

**Note:** If you encounter any issues, please write to [support@npTEL.iitm.ac.in](mailto:support@npTEL.iitm.ac.in). Chargeback through the bank will not be entertained.

This is computer generated receipt no signature required.





**KSSEM**

K.S. GROUP OF INSTITUTIONS

Ph. : +91 80 284251

+91 88844 444

# K.S. SCHOOL OF ENGINEERING & MANAGEMENT

Approved by AICTE-1-5279601, Affiliated to VTU, Belagavi, ACCREDITED BY NAAC

#15, Near Vajarahalli, Mallasandra, off Kanakapura Road, Bengaluru - 560 109

E-mail : principal@kssem.edu.in

Website : www.kssem.edu.in

No. 1285

Date 5/7/24

Paid to Sri ..... Roopa Balaramu, Asst Prof, MBA..... a sum of

Rupees ..... One thousand eight hundred only.....

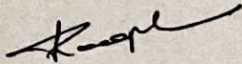
..... by Cash / Cheque No. 248034/01.07.24.

towards the account of Reimbursement of Registration fee to attend workshop

₹: 1,800/-

Treasurer / Secretary

Manager

  
Receiver's Signatu



**APPLICATION FORM FOR ATTENDING FACUTY DEVELOPMENT PROGRAM/  
CONFERENCE / SEMINAR / WORKSHOP**

Name of the Faculty	PROF. ROOPA BALAVENU
Department	MBA
Designation	ASSISTANT PROFESSOR
Name of the Program: (attach Brochure)	WORKSHOP ON TIME SERIES AND PANEL DATA ANALYSIS
Organizing Institution and Address;	CET SCHOOL OF MANAGEMENT, TRIVENDRUM, KERALA
Dates & Duration of the program	20/5/24 & 24/5/24 5 DAYS
Registration Fee:	Rs.1800/-
Sponsoring Agency (if any)	GOVT.
If a paper is being presented, Title of the paper (Submit a copy of the paper)	NOT APPLICABLE
Details of the last program attended: Name of the Program: Organizing Institution and Address; Dates & Duration of the program Registration Fee:	WORKSHOP ON FINANCIAL ECONOMETRICS MANIPAL ACADEMY OF HIGHER EDUCATION, Bengaluru, Karnataka 560064 27/3/24 & 28/4/24 2 DAYS Rs.1000/-
Justification and Value addition:	The Workshop aims to provide researchers with the necessary skills to apply Econometric techniques effectively in the dynamic fields of Finance and Economics, emphasizing the importance of data driven decision making for impactful policymaking. Through hands-on sessions, the workshop covers both the basic and advanced concepts and techniques of Time series and Panel Data analysis. The Financial Econometrics Workshop serves as a beacon of knowledge, illuminating the intricate realm of econometric modelling and its vital role in empirical research amidst the turbulent seas of uncertainty, complexity, and ambiguity. In this era where data reigns supreme, the ability to make informed decisions is paramount, and econometric methods serve as indispensable tools across various disciplines.

**PAYMENT DETAILS**

CHQ/VR No. 248034 Dt: 01.07.24

AMOUNT Rs. 1,800/-

  
SECRETARY

  
TREASURER



Recommendation of HOD:	Recommended. <i>meignallia S</i> 11/5/24
Recommendation of the Principal	<i>K. Romo</i>

CEO Recommendation:

*May be approved for kind order*

President/ Secretary



*L. Jones*  
5/6/24

# **KAMMAVARI SANGHAM GROUP OF INSTITUTIONS, BANGALORE.**

#14, Raghuvanahalli, Kanakapura Main Road, (NH-209)  
Bengaluru - 560 109

OFFICE OF THE CHIEF EXECUTIVE OFFICER

## **GULDE LINES FOR DEPUTING FACULTY TO ATTEND FACULTY DEVELOPMENT PROGRAMS / CONFERENCES / SEMINARS / WORKSHOPS.**

**Preamble:** Continuous Knowledge up-gradation is a very essential component in the development of a robust faculty base in any institution. In order to encourage people to participate actively, it is essential to depute the faculty for such programs and develop the faculty for such training because they are the change agents who are responsible to keep abreast of the new technologies and bring them to the class room for the benefit of students. Hence a guideline for deputing faculty for such programs is imminent.

1. Information Brochures on various Faculty Development Programs / Conferences / Seminars / Workshops are received by the Principal or the Head of the Department who shall convey the information through proper announcement in the Notice Board and the Circular File.
2. Interested faculty shall fill in the application form and enclose a copy of the brochure and justify why they want to participate in a particular program and how it will help them to teach in their department. Further, if the FDP / Conference / Seminar / Workshop is during term, the applicant shall also indicate the alternate arrangements made by him/her for his/her classes during his/ her absence in the college.
3. Faculty should submit the Application to their respective Head who in turn shall make his/her recommendation and forward it to the Principal for his consideration and recommendation.
4. The Principal on verifying the justification, usefulness and the alternate arrangements made shall endorse the application with his recommendation and submit it to the CEO's Office for consideration.
5. The CEO shall make his observation and recommendation and seek the Approval of the Management for their kind sanction of Registration Fee and permissible TA/DA.



Five day Workshop organized by CET School of Management

20th-24th May, 2024



# TIME SERIES AND PANEL DATA ANALYSIS

## Resource Person



**PROF. VIJAYAMOHANAN  
PILLAI N**

*Gulati Institute of Finance and Taxation,  
Thiruvananthapuram, Kerala*

This five-days workshop will cover the following modules:

- Cross Section Data – Model Estimation, Hypothesis Testing and Inference
- Time Series Data – Non-Stationarity, Unit Root Test
- ARMA, ARIMA, Granger Causality, Vector Autoregressive Processes
- Cointegration, VECM, ARCH and GARCH Models
- Introduction to Panel Data: Structure, Pooled Model, Error Components Model
- Fixed Effects Model, Random Effects Model, Probability Tests, Model Selection (Hausman Test)
- Panel Data – Heteroskedasticity, Autocorrelation
- Linear Dynamic Panel Data Model
- Instrumental Variable, GMM Estimation
- Panel Data Unit Root Test, Panel Data Cointegration Test

### Date and Time

9:00 am-5:00 pm,  
20th - 24th May, 2024

### Venue

CET School of Management,  
College of Engineering Trivandrum  
Kerala

### Coordinator

Abhijith Rajkumar  
Assistant Professor, CET  
abhijithrajkumar@cet.ac.in  
7907204522

Registration Closes on :15/05/24

## About the program

The workshop aims to provide researchers with the necessary skills to apply econometric techniques effectively in the dynamic fields of finance and economics, emphasizing the importance of data-driven decision-making for impactful policymaking. Through hands-on sessions, the workshop covers both basic and advanced concepts and techniques of time series and panel data analysis.



## College of Engineering Trivandrum

The College of Engineering Trivandrum (CET), located in Thiruvananthapuram, Kerala, is one of the oldest and most prestigious engineering institutions in the state. Established in 1939, it offers undergraduate, postgraduate, and doctoral programs in various engineering and management disciplines. CET is renowned for its quality education, state-of-the-art infrastructure, and strong emphasis on research and innovation. The institution has consistently ranked among the top engineering colleges in India and has produced numerous successful engineers, technologists, and leaders in the industry and academia. With a commitment to excellence and a rich history of academic achievements, CET continues to be a cornerstone of engineering education in Kerala and beyond.

## CET School of Management

College of Engineering Trivandrum (CET) started MBA programme in 1985 as an evening programme to enrich the practicing managers in professional management. This programme has been well received by the practicing management fraternity and continues to be in the forefront. A Management school of the current status with full time MBA programme was started in the year 2000. CET is the pioneering institution in management education under APJ Abdul Kalam Technological University (APJAKTU). Twenty two batches of students have already completed the full-time programme and Thirty four batches have completed the Evening MBA Programme here. CETSOM is set up in a newly constructed block, having state-of-the-art facilities. CETSOM is accredited by the National Board of Accreditation (NBA) and an approved centre for carrying out management research. Nineteen scholars have been awarded PhD in Management from CETSOM.

### WHO CAN APPLY?

Faculty, professionals, students and researchers who are interested in attending this workshop are cordially invited. Admission will be based on first come first served basis due to limited seats.

Apply on or before 15th May, 2024.

### HOW TO APPLY?

#### Step 1 : Payment of Fees

Payment can be done through NEFT or RTGS to the following bank account.

Account Name: Centre for Continuing Education  
Account No: 57005991583 IFSC: SBIN0070268

Bank: SBI Engineering College - Kulathur

#### Step 2 : Submit the Google Form

[https://docs.google.com/forms/d/e/1FAIpQLSeLo7A\\_hfdVdS1uZB899az7sZ4y04vMC3pC3ZyA-r6Ljavhgz/viewform?usp=sf\\_link](https://docs.google.com/forms/d/e/1FAIpQLSeLo7A_hfdVdS1uZB899az7sZ4y04vMC3pC3ZyA-r6Ljavhgz/viewform?usp=sf_link)

### REGISTRATION FEES (Inclusive of 18% GST)

Faculty and Professionals : ₹1800/-

Students and Research scholars : ₹1200/-

Please be advised that food and accommodation is not included.



Scan to Google Form



DIRECTORATE OF TECHNICAL EDUCATION  
GOVERNMENT OF KERALA

CET School of Management

*Under the auspices of*

Centre for Continuing Education

College of Engineering Trivandrum 695016



Five Day Workshop on “Time Series and Panel Data Analysis”

## Certificate of Participation

This is to certify that Prof./Dr./Mr./Ms. ROOPA BALAVENU ..... has attended  
a **Five Day Workshop on “Time series and Panel Data Analysis”** organised by CET School of  
Management, College of Engineering Trivandrum from May 20-24, 2024.

18/05/24  
29/5/24  
  
Abhijith R.

Coordinator & Assistant Professor  
CET School of Management

  
Dr. Suresh Subramoniam  
Director

CET School of Management

  
Dr. Savier J.S.  
Principal

College of Engineering Trivandrum





**K.S. GROU OF INSTITUTIONS**  
**K.S. SCHOOL OF ENGINEERING AND MANAGEMENT**

(approved by AICTE & Recognised by VTU)  
 #15/1, Mallasandra, Off. Kanakapura Road, Bengaluru - 560 109

Phone : H.O. : 26678053, 26678735  
 College : 28425012, 28425013

No. 0702

Date 25/11/2023

Paid to Sri Arundathi K.L. Asst. prof. MBA a sum of  
 Rupees one thousand one hundred only

..... by Cash / Cheque No. 241701/21.11.23

towards the account of Registration fee to attend  
NPTEL online examination.

RS. 1,100/-

Treasurer / Secretary

Manager

Arundathi  
 25/11/2023  
 Receiver's Signature



Date: 17.11.2023

To  
The Principal  
K S School of Engineering and Management  
Bengaluru-560109

From  
Arundathi K L  
Assistant Professor  
Department of Management Studies  
K S School of Engineering and Management  
Bengaluru -560109

Through  
HOD-MBA  
K S School of Engineering and Management  
Bengaluru -560109


Respected Sir,

**Subject: Requesting for reimbursement of NPTEL - Swayam course Proctored Exam fees 24th September 2023**

With respect to the above subject, I had registered for the NPTEL - Swayam course on "Business Analytics & Text Mining Modeling Using Python". In the current VTU curricular 22MBA scheme and syllabus has introduced the Business Analytics specialisation, thought it would help to get prepared. I had registered for the above-mentioned 8 week course and taken the examination. For the exam registration paid the sum of 1100/- (Rupees- one thousand and one hundred only). I also would like to share that I cleared the exam with 78% (Elite - silver) category. I have attached herewith fees paid details, Exam Hall Ticket and the scorecard along with college application form for your reference. Kindly consider my request and reimburse the amount paid for the examination.



Thank you in advance.

Your Sincerely,

  
17/11/23  
Prof. Arundathi K L

1 ←. Done  
17/11/23  
forwarded to Principal.  
Kindly consider this and  
please do the needful.

  
20/11/23

PAYMENT DETAILS	
CHQ/VR No. 241701	DL: 20.11.23
AMOUNT Rs. 1,100/-	
	
SECRETARY	

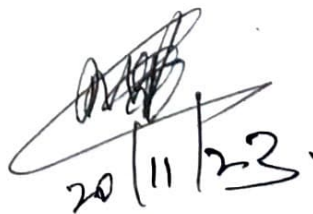
  
17/11/2023

**APPLICATION FORM FOR ATTENDING FACUTY DEVELOPMENT PROGRAM/  
CONFERENCE / SEMINAR / WORKSHOP**

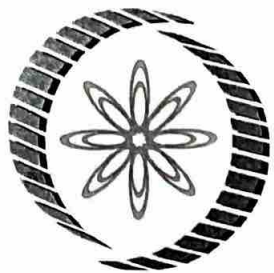
Name of the Faculty	ARUNDATHI K. K.
Department	
Designation	MBA
Name of the Program: (attach Brochure)	Business Analytics & Text mining Modeling Using Python - Online course
Organizing Institution and Address;	
Dates & Duration of the program	NPTEL - JIT - Roorkee 24 <sup>th</sup> Sept. 2023, & 8 weeks
Registration Fee:	₹1100/-
Sponsoring Agency (if any)	AICTE, DST, VGST, VTU, Others(specify) Swayam
If a paper is being presented, Title of the paper (Submit a copy of the paper)	- NA -
Details of the last program attended:	
Name of the Program:	Statistics: A practical approach through SPSS - UOM
Organizing Institution and Address;	Sri Sri College of Commerce & Management
Dates & Duration of the program	1 day Workshop.
Registration Fee:	Not applicable as fee borne self
Justification and Value addition:	As the VTU introduced new specialisation Business Analytics & Knowledge enhance
Recommendation of HOD:	This NPTEL Topic is a part of VTU new Syllabus so its highly recommended kindly consider.
Recommendation of the Principal	I S. Ramesh 17/11/23

CEO Recommendation:

President/ Secretary

  
20/11/23.





NPTEL

# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**ARUNDATHI KL**

for successfully completing the course



**Business Analytics & Text Mining Modeling Using Python**

with a consolidated score of **78** %

Online Assignments	22.71/25	Proctored Exam	55.5/75
--------------------	----------	----------------	---------

Total number of candidates certified in this course: **1114**

**Prof. Kaushik Ghosh,**  
Professor (Chemistry)  
Coordinator CEC

**Jul-Sep 2023**

**(8 week course)**

**Prof. Ranjana Pathania,**  
Professor (BSBE)  
Coordinator (NPTEL)



Indian Institute of Technology Roorkee

FREE ONLINE EDUCATION

**swayam**

शिक्षित भारत, उन्नत भारत

Roll No: NPTEL23MG104S44640922

To verify the certificate



No. of credits recommended: 2 or 3

< Back

# Transactions



Money sent to SUCCESS

**IIT BILLDESK** ₹ 1,100.00

18 Aug '23 6:52pm



Payment Initiated

Payment Processing

Payment Completed



To UPI ID

**iit.billdesk@hdfcbank**

Debited from

**Axis Bank Ltd. - XXXX994041**

Amount

**₹ 1100.00**

Transaction ID

**323018162793**

Remarks

**Pay**



Need Help??



Contact Us



**Call bank**

**UPI Help**





K.S. GROUP OF INSTITUTIONS

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+91 88844 44408

# K.S. SCHOOL OF ENGINEERING & MANAGEMENT

Approved by AICTE-1-5279601, Affiliated to VTU, Belagavi, ACCREDITED BY NAAC

#15, Near Vajarahalli, Mallasandra, off Kanakapura Road, Bengaluru - 560 109

E-mail : principal@kssem.edu.in Website : www.kssem.edu.in

No. 1203

Date 29/5/24

Paid to Sri AKASHDEEP B.N. ASST. PROF., MED. a sum of

Rupees One thousand only

by Cash / Cheque No. 247928 / 27.05.24

towards the account of Reimbursement of registration fee to attend FDP.







₹ : 1,000/-

Treasurer / Secretary

Manager

  
Receiver's Signature


**APPLICATION FORM FOR ATTENDING FACUTY DEVELOPMENT PROGRAM /  
CONFERENCE / SEMINAR / WORKSHOP**


Name of the Faculty	AKASH deep. B.N.										
Department	Mechanical.										
Designation	Asst. prof.										
Name of the Program: (attach Brochure)	FDP										
Organizing Institution and Address;	KSIT, Blore.										
Dates & Duration of the program	13/05/24 to 17/05/24										
Registration Fee:	1000/-										
Sponsoring Agency (if any)	AICTE, DST, VGST, VTU, OtherS(specify)										
If a paper is being presented, Title of the paper (Submit a copy of the paper)	<table border="1"> <tr> <th colspan="2">PAYMENT DETAILS</th> </tr> <tr> <td>CHQ/VR No.</td> <td>247928 DC: 27-05-24</td> </tr> <tr> <td>AMOUNT Rs.</td> <td>1000/-</td> </tr> <tr> <td></td> <td></td> </tr> <tr> <td>SECRETARY</td> <td>TREASURER</td> </tr> </table>	PAYMENT DETAILS		CHQ/VR No.	247928 DC: 27-05-24	AMOUNT Rs.	1000/-			SECRETARY	TREASURER
PAYMENT DETAILS											
CHQ/VR No.		247928 DC: 27-05-24									
AMOUNT Rs.		1000/-									
											
SECRETARY		TREASURER									
Details of the last program attended:											
Name of the Program:											
Organizing Institution and Address;											
Dates & Duration of the program											
Registration Fee:											
Justification and Value addition:	I came to know about industrial safety & concern <i>toward</i> Employees										
Recommendation of HOD:	Chudal. A, 23/5/24										
Recommendation of the Principal	K. Rana 23/5/24										

CFO Recommendation:

Maybe approved

President/ Secretary

  
25/05/24

  
23/5/24





KAMMAVARI SANGAHAM (R) - 1952

# K. S. INSTITUTE OF TECHNOLOGY

(Affiliated to VTU, Belagavi & Recognised by AICTE, New Delhi, Accredited by NAAC & NBA)

#14, Raghuvanahalli, Kanakapura Road, Bengaluru - 560109

Tel : 080 - 28435722 / 24 Web : www.ksit.edu.in



**KSIT**  
K. S. INSTITUTE OF TECHNOLOGY

**KSRIF**  
K. S. Research and Innovation Foundation

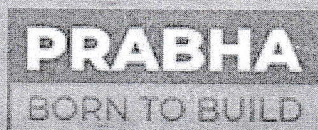
## Industry Driven Faculty Development Programme

on

## “BEST PRACTICES IN INDUSTRIAL SAFETY”

13<sup>th</sup> - 17<sup>th</sup> May, 2024

### Industry Partners



**BOSCH**

**SANSERA**  
ENGINEERING

**T**  
TOYOTA  
KIRLOSKAR MOTOR

### Organized By

Department of Mechanical Engineering

### In Association with

K S Research & Innovation Foundation

#### Contact Details

Mr. Anil Kumar A

Mr. Rangantah N

Scan Here for  
Location





## Objectives of FDP :

- To empower the faculty members with a understanding of the current best safety practices in industries
- To assist faculty in integrating industrial safety practices into curriculum by identifying key topics, case studies and practical examples.
- To emphasis the importance of safety standards and sustainable practices in industrial settings

## Registration Fee :

For Faculty :

**Rs. 1000 /-**

## Bank Details :

A/C Name :

K S INSTITUTE OF TECHNOLOGY, BENGALURU

Bank Name : Axis Bank

A/C Number : 912010014093916

IFSC Code : UTIB0001513

Branch : JP Nagar 6<sup>th</sup> Phase, Bengaluru

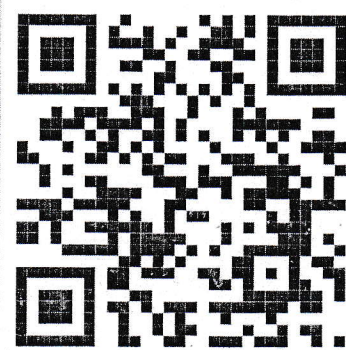
## Note :

- Number of registrations is limited to 20.
- Registration is limited to only 1 faculty from each institutions.
- Faculty from Mechanical Engineering domain can register for this program.

## Registrations

Please Scan or Click on the link given below for the registrations

This FDP will be  
implemented  
at above  
Five Industries







KSIT

₹1,000

XXXXXXXXXXXX3916

Axis Bank

Sent to : 91XXXXXXXX4093916@UTIB0000001.ifs...



Transfer Details



Transaction ID

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Debited from



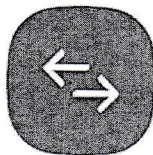
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₹1,000

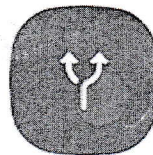
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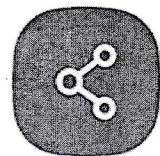
Send Again



View History



Split Expense



Share Receipt



Contact PhonePe Support



Powered by







K.S. GROUP OF INSTITUTIONS

Ph. : +91 80 28425163

+91 88844 44408

# K.S. SCHOOL OF ENGINEERING & MANAGEMENT

Approved by AICTE-1-5279601, Affiliated to VTU, Belagavi, ACCREDITED BY NAAC

#15, Near Vajarahalli, Mallasandra, off Kanakapura Road, Bengaluru - 560 109

E-mail : principal@kssem.edu.in

Website : www.kssem.edu.in

No. 1202

Date 29/5/24

Paid to Sri P.N. Jyothi; Professor, MED a sum of

Rupees Five thousand two hundred only

by Cash / Cheque No. 247927/27.05.24

towards the account of Reimbursement of registration fee to attend conference and NPTEL course

₹: 5,200/-

Treasurer / Secretary

Manager

Receiver's Signature



Attach Certificate

APPLICATION FORM FOR ATTENDING FACULTY DEVELOPMENT PROGRAM / CONFERENCE / SEMINAR / WORKSHOP

①

Name of the Faculty	Dr. P.N. Jyothi
Department	Mechanical
Designation	Professor
Name of the Program: (attach Brochure)	SRM A P A E S E E Conference International Conference.
Organizing Institution and Address;	SRM University, Andhra Pradesh.
Dates & Duration of the program	15/3/24
Registration Fee:	3000/-
Sponsoring Agency (if any)	AICTE, DST, VGST, VTU, Others (specify)
If a paper is being presented, Title of the paper (Submit a copy of the paper)	Solar powered water purification using a natural Coagulant.
Details of the last program attended: Name of the Program: Organizing Institution and Address; Dates & Duration of the program Registration Fee:	International Conf - AESEE SRM University A.P.  3000/-
Justification and Value addition:	Presenting paper on suitable water purification, got good feedback from panel at their address.
Recommendation of HOD:	Please consider the request.
Recommendation of the Principal	I R. Rana 25/4/24

innovative SDM in Environment Sustainability  
25/4/24

CFO Recommendation:

May be approved

R. Rana 25/5/2024

President/ Secretary

*[Signature]*  
25/05/24

① Rs. 3,000/-

② Rs. 2,200/-

Total Rs. 5,200/-

R

PAYMENT DETAILS	
CHQ/VR No.	24792701 27.05.24
AMOUNT Rs.	3,000/- (5,200/-)
<i>[Signature]</i> SECRETARY	<i>[Signature]</i> TREASURER





**SRM**  
UNIVERSITY AP

—Andhra Pradesh

Mobile Number	9663080471
Institute Name	SRM AP AESEE Conference
Name	Jyothi P N
Email	Jyothi.p.n@kssem.edu.in
Payment Date	09 Mar 2024, 1:05 PM
Order Id	17741_513_4
Fee Name	Registration Fee
Designation	Professor
Category	Faculty
Name of the College/ University/Institution	K S SCHOOL OF ENGINEERING AND MANAGEMENT
Participation Category	Oral Presentation
Title of Manuscript	SOLAR POWERED WATER PURIFICATION USING A NATURAL COAGULANT
Abstract (Email to conf.aeese@srmap.edu.in)	Accessing clean, safe drinking water is still a problem for many people worldwide. Numerous technologies for filtering and purifying water demand more electricity, energy, or resources. As the environment continues to change, these difficulties will only get worse. Due to the depletion of water supplies and the fear mongering surrounding environmental degradation, water treatment is currently one of the main research areas. This has forced the upgrading of conventional water treatment technologies towards recycling and reuse. They function by neutralizing the charge by polymeric bridging, an adsorption process. The work offers particular information about the coagulation properties of natural coagulants, fabricating a solar powered water purification system at lower maintenance cost, where in sand, pebbles and charcoal are used for physical impurity filtration, water is preheated using heating coils, where moringa seeds acts as a natural coagulant and solar energy is used to power the heating coils and UV light source. Total Coliform bacteria causing illness were completely absent and parameters like TDS, pH, Turbidity has reduced from 309.6 mg/L, 7.4, 10.8 NTU to 274.4 mg/L, 7.2, 1.2 NTU respectively. This is the cheapest water purification system that can be used rural areas with house hold containers, Moringa (drumstick) seeds and solar panel. The use of natural coagulants, which are widely accessible, affordable, simple to use, biodegradable, non-toxic, environmentally friendly, efficient, and produce less volumes of sludge, is a sustainable substitute.
Theme	Emerging Contaminants & Remediation Technologies
Accomodation Required	No
Date of Arrival (If accommodation is Yes)	-
Date of Departure (If accommodation is Yes)	-
Alternate Contact Number	9743266764
Payment Mode	Online





**SRM**  
UNIVERSITY AP  
Andhra Pradesh

Payment Breakup

Registration Fee

₹3,000.00

Paid Amount ₹3,000.00

\*This fee is directly transferred to the institute account. In case you have concerns, please contact the institute directly.  
This is system generated receipt and does not require a signature.



**1<sup>st</sup> International Conference on  
Advances in Environmental Sustainability, Energy and Earth Science (AESEE-2024)**

Organised by  
Department of Environmental Science and Engineering  
SRM University-AP, Andhra Pradesh

# CERTIFICATE OF PRESENTATION

This is to certify that Mr./Ms./Dr

**Dr. Jyothi P N**

from \_\_\_\_\_ has presented the research entitled

**“SOLAR POWERED WATER PURIFICATION USING A NATURAL COAGULANT**

(Oral/Poster presentation) at the first *International Conference on Advances in Environmental Sustainability, Energy and Earth Science (AESEE-2024)* held during March 14-16, 2024 at SRM University-AP, Andhra Pradesh, India.

*K. Subashree*

**Dr Subashree Kothandaraman**  
Organising Secretary

*Feniceel*

**Dr Javid Ahmad Dar**  
Organising Secretary

*Pankaj*

**Dr Pankaj Pathak**  
Organising Secretary

*Selvasembian*

**Dr Rangabhashiyam Selvasembian**  
Chairperson



APPLICATION FORM FOR ATTENDING FACULTY DEVELOPMENT PROGRAM /  
CONFERENCE / SEMINAR / WORKSHOP

②

Name of the Faculty	Dr. P. N. Jyothi
Department	Mechanical Engg
Designation	Professor
Name of the Program: (attach Brochure)	N PTEL
Organizing Institution and Address;	AICTE
Dates & Duration of the program	8 weeks - date to be filled & 12 weeks - CIM
Registration Fee:	1100 + 1100 = 2,200
Sponsoring Agency (if any)	AICTE, DST, VGST, VTU, Others (specify)
If a paper is being presented, Title of the paper (Submit a copy of the paper)	—
Details of the last program attended: Name of the Program: Organizing Institution and Address; Dates & Duration of the program Registration Fee:	2200/-
Justification and Value addition:	Enhanced my knowledge abt Composites & CIM
Recommendation of HOD:	Jyothi, 23/05/24
Recommendation of the Principal	K. Ramesh 23/5/24

CFO Recommendation:

*May be approved*

President/ Secretary

*[Signature]*  
25/05/24

*[Signature]*  
23/5/24

PAYMENT DETAILS	
CHQ/VR No.	2479270 27.05.24
AMOUNT RS.	2,200/- (5,200/-)
<i>[Signature]</i> SECRETARY	<i>[Signature]</i> TREASURER





REKHA B <rekha.b@kssem.edu.in>

## Fwd: Exam Registration: Payment Successful

1 message

P N Jyothi <pnjyothi77@gmail.com>

To: rekha.b@kssem.edu.in

Wed, May 15, 2024 at 1:45 PM

----- Forwarded message -----

From: <exam@nptel.iitm.ac.in>

Date: Tue, 20 Feb 2024, 4:25 pm

Subject: Exam Registration: Payment Successful

To: <pnjyothi77@gmail.com>

Hello P N Jyothi,

**Your payment for the following course(s) is successful.**

Course	Amount
Computer Integrated Manufacturing	₹ 1100
Introduction to Machining and Machining Fluids	₹ 1100

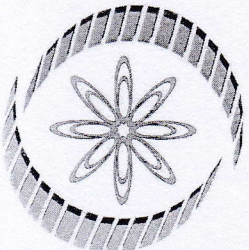
Here are your transaction details:

Transaction ID	order_Nd6ktb1qhGCzKy
Reference ID	pay_Nd6lqE2ui1u0be
Date	20/02/2024 16:24:08 IST
Total Amount	₹ 2200

For any grievance contact support : [support@nptel.iitm.ac.in](mailto:support@nptel.iitm.ac.in)

**If your transaction was successful, payment receipts will be available once the form closes.**





# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**P N JYOTHI**

for successfully completing the course

## Computer Integrated Manufacturing

with a consolidated score of **77** %

Online Assignments	23.44/25	Proctored Exam	54/75
--------------------	----------	----------------	-------

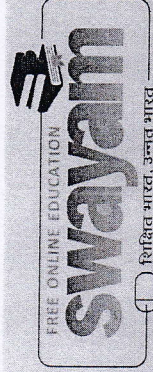
Total number of candidates certified in this course: **1352**

**Prof. B. V. Ratish Kumar**  
Chairman, Centre for Continuing Education  
IIT Kanpur



Indian Institute of Technology Kanpur

**Prof. Satyaki Roy**  
NPTEL Coordinator  
IIT Kanpur

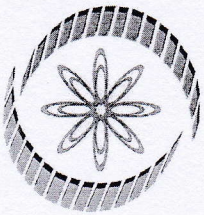


To verify the certificate

UJ No: NPTEL24ME27S5523Q1896

No. of credits recommended: 3 or 4





# NPTEL-AICTE Faculty Development Programme

(Funded by the MoE, Govt. of India)



*This certificate is awarded to*

**P N JYOTHI**

*for successfully completing the course*

**Introduction to Machining and Machining Fluids**

*with a consolidated score of 83 %*

**Prof. Andrew Thangaraj**  
NPTEL Coordinator  
IIT Madras



(Jan-Mar 2024)

Roll No: NPTEL24ME41S346600888

Duration of NPTEL course : 8 Weeks

The candidate has studied the above course through MOOCs mode, has submitted online assignments and passed proctored exams.  
This certificate is therefore acceptable for promotions under CAS as per AICTE notifications dated 16<sup>th</sup> Nov, 2023, similar to other refresher / orientation courses.  
F.No. AICTE / RIFD / FDP through MOOCs / 2023



**Tax Invoice**

 <b>CIIRC</b> Jyothy Institute of Technology Campus Thathaguni, Off Kanakapura Road Bengaluru - 560082 GSTIN/UIN: 29AAGCC6539D1ZK State Name : Karnataka, Code : 29 CIN: U74999KA2016NPL096718 Contact : 9880753622 E-Mail : info@ciirc.jyothyit.ac.in https://www.ciirc.res.in	Invoice No. <b>2324C385</b>	Dated <b>20-Mar-24</b>
	Reference No. & Date.	Other References
	Buyer's Order No.	Dated

Buyer (Bill to)  
**Parashuram A Kutakanakeri**  
 Department of Mechanical Engineering, K S School  
 of Engineering and Management, Bengaluru 560109  
 Contact : 8660095661  
 E-Mail : parashuram.a.k@gmail.com

SI No.	Particulars	HSN/SAC	Amount
1	<b>Workshop/Training</b> <i>Registration fee for Hands-on training in X-ray Diffractometer (XRD) and Fourier Transform Infrared (FTIR) Spectroscopy</i>	998346	1,250.00
	<b>OUTPUT CGST @ 9%</b>		112.50
	<b>OUTPUT SGST @ 9%</b>		112.50
	<b>Total</b>		<b>₹ 1,475.00</b>

*I.T. Done 21/3/24*

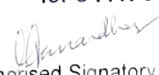
Amount Chargeable (in words)  
**INR One Thousand Four Hundred Seventy Five Only**



Scan to pay



Company's Bank Details  
 A/c Holder's Name : **CIIRC**  
 Bank Name : **INDIAN OVERSEAS BANK**  
 A/c No. : **263402000000114**  
 Branch & IFS Code : **THATHAGUNI & IOBA0002634**

for **CIIRC**  
  
 Authorised Signatory



ATTENDANCE CERTIFICATE

This is to certify that Mr./Ms./Dr./Prof. Parashuram A Kutakanakeri of K S School of Engineering Management, Bengaluru, has attended one-day hands-on training in X-Ray Diffractometer (XRD) and Fourier Transform Infrared Spectroscopy (FTIR) held at Sophisticated Instrumentation Facility Lab, on Wednesday, 20<sup>th</sup> March, 2024 from 9:00 am to 5:00 pm.

*K. Venkatesh*

Signature

*15. Gome 21/3/24*







K.S. GROUP OF INSTITUTIONS

Ph. : +91 80 28425163  
+91 88844 44408

# K.S. SCHOOL OF ENGINEERING & MANAGEMENT

Approved by AICTE-1-5279601, Affiliated to VTU, Belagavi, ACCREDITED BY NAAC

#15, Near Vajarahalli, Mallasandra, off Kanakapura Road, Bengaluru - 560 109

E-mail : principal@kssem.edu.in Website : www.kssem.edu.in

No. 1202

Date 29/5/24

Paid to Sri ..... P.N. Jyothi; Professor, MED ..... a sum of

Rupees ..... Five thousand two hundred only .....

..... by Cash / Cheque No. 247927/27.05.24

towards the account of ..... Reimbursement of registration fee to  
attend conference and NPTEL course

₹ : 5,200/- .....

Treasurer / Secretary

Manager

Receiver's Signature



Attach Certificate

APPLICATION FORM FOR ATTENDING FACULTY DEVELOPMENT PROGRAM / CONFERENCE / SEMINAR / WORKSHOP

①

Name of the Faculty	Dr. P.N. Jyothi
Department	Mechanical
Designation	Professor
Name of the Program: (attach Brochure)	SRM A P A E S E E Conference International Conference.
Organizing Institution and Address;	SRM University, Andhra Pradesh.
Dates & Duration of the program	15/3/24
Registration Fee:	3000/-
Sponsoring Agency (if any)	AICTE, DST, VGST, VTU, Others (specify)
If a paper is being presented, Title of the paper (Submit a copy of the paper)	Solar powered water purification using a natural Coagulant.
Details of the last program attended: Name of the Program: Organizing Institution and Address; Dates & Duration of the program Registration Fee:	International Conf - AESEE SRM University A.P. 3000/-
Justification and Value addition:	Presenting paper on suitable water purification, got good feedback from panel at their address.
Recommendation of HOD:	Please consider the request.
Recommendation of the Principal	I R. Rana 25/4/24

innovative SDM in Environment Sustainability  
25/4/24

CFO Recommendation:

May be approved

R. Rana 25/5/2024

President/ Secretary

*[Signature]*  
25/05/24

① Rs. 3,000/-

② Rs. 2,200/-

Total Rs. 5,200/-

R

PAYMENT DETAILS	
CHQ/VR No.	24792701 27.05.24
AMOUNT Rs.	3,000/- (5,200/-)
<i>[Signature]</i> SECRETARY	<i>[Signature]</i> TREASURER





**SRM**  
UNIVERSITY AP

—Andhra Pradesh

Mobile Number	9663080471
Institute Name	SRM AP AESEE Conference
Name	Jyothi P N
Email	Jyothi.p.n@kssem.edu.in
Payment Date	09 Mar 2024, 1:05 PM
Order Id	17741_513_4
Fee Name	Registration Fee
Designation	Professor
Category	Faculty
Name of the College/ University/Institution	K S SCHOOL OF ENGINEERING AND MANAGEMENT
Participation Category	Oral Presentation
Title of Manuscript	SOLAR POWERED WATER PURIFICATION USING A NATURAL COAGULANT
Abstract (Email to conf.aeese@srmap.edu.in)	Accessing clean, safe drinking water is still a problem for many people worldwide. Numerous technologies for filtering and purifying water demand more electricity, energy, or resources. As the environment continues to change, these difficulties will only get worse. Due to the depletion of water supplies and the fear mongering surrounding environmental degradation, water treatment is currently one of the main research areas. This has forced the upgrading of conventional water treatment technologies towards recycling and reuse. They function by neutralizing the charge by polymeric bridging, an adsorption process. The work offers particular information about the coagulation properties of natural coagulants, fabricating a solar powered water purification system at lower maintenance cost, where in sand, pebbles and charcoal are used for physical impurity filtration, water is preheated using heating coils, where moringa seeds acts as a natural coagulant and solar energy is used to power the heating coils and UV light source. Total Coliform bacteria causing illness were completely absent and parameters like TDS, pH, Turbidity has reduced from 309.6 mg/L, 7.4, 10.8 NTU to 274.4 mg/L, 7.2, 1.2 NTU respectively. This is the cheapest water purification system that can be used rural areas with house hold containers, Moringa (drumstick) seeds and solar panel. The use of natural coagulants, which are widely accessible, affordable, simple to use, biodegradable, non-toxic, environmentally friendly, efficient, and produce less volumes of sludge, is a sustainable substitute.
Theme	Emerging Contaminants & Remediation Technologies
Accomodation Required	No
Date of Arrival (If accommodation is Yes)	-
Date of Departure (If accommodation is Yes)	-
Alternate Contact Number	9743266764
Payment Mode	Online





**SRM**  
UNIVERSITY AP  
Andhra Pradesh

Payment Breakup

Registration Fee

₹3,000.00

Paid Amount ₹3,000.00

\*This fee is directly transferred to the institute account. In case you have concerns, please contact the institute directly.  
This is system generated receipt and does not require a signature.



**1<sup>st</sup> International Conference on  
Advances in Environmental Sustainability, Energy and Earth Science (AESEE-2024)**

Organised by  
Department of Environmental Science and Engineering  
SRM University-AP, Andhra Pradesh

# CERTIFICATE OF PRESENTATION

This is to certify that Mr./Ms./Dr

**Dr. Jyothi P N**

from \_\_\_\_\_ has presented the research entitled

**“SOLAR POWERED WATER PURIFICATION USING A NATURAL COAGULANT**

(Oral/Poster presentation) at the first *International Conference on Advances in Environmental Sustainability, Energy and Earth Science (AESEE-2024)* held during March 14-16, 2024 at SRM University-AP, Andhra Pradesh, India.

*K. Subashree*

**Dr Subashree Kothandaraman**  
Organising Secretary

*Feniceel*

**Dr Javid Ahmad Dar**  
Organising Secretary

*Pankaj*

**Dr Pankaj Pathak**  
Organising Secretary

*Selvasembian*

**Dr Rangabhashiyam Selvasembian**  
Chairperson



APPLICATION FORM FOR ATTENDING FACULTY DEVELOPMENT PROGRAM /  
CONFERENCE / SEMINAR / WORKSHOP

②

Name of the Faculty	Dr. P. N. Jyothi
Department	Mechanical Engg
Designation	Professor
Name of the Program: (attach Brochure)	N PTEL
Organizing Institution and Address;	AICTE
Dates & Duration of the program	8 weeks - 1st to 4th & 12 weeks - 1st to 4th
Registration Fee:	1100 + 1100 = 2,200
Sponsoring Agency (if any)	AICTE, DST, VGST, VTU, Others (specify)
If a paper is being presented, Title of the paper (Submit a copy of the paper)	—
Details of the last program attended: Name of the Program: Organizing Institution and Address; Dates & Duration of the program Registration Fee:	2200/-
Justification and Value addition:	Enhanced my knowledge abt Composites & CIM
Recommendation of HOD:	Chokkar, 23/05/24
Recommendation of the Principal	K. Ramesh 23/5/24

CFO Recommendation:

May be approved

President/ Secretary

*[Signature]*  
25/05/24

*[Signature]* 23/5/24

PAYMENT DETAILS	
CHQ/VR No.	2479270 27.05.24
AMOUNT RS.	2,200/- (5,200/-)
<i>[Signature]</i> SECRETARY	<i>[Signature]</i> TREASURER





REKHA B <rekha.b@kssem.edu.in>

## Fwd: Exam Registration: Payment Successful

1 message

P N Jyothi <pnjyothi77@gmail.com>

To: rekha.b@kssem.edu.in

Wed, May 15, 2024 at 1:45 PM

----- Forwarded message -----

From: <exam@nptel.iitm.ac.in>

Date: Tue, 20 Feb 2024, 4:25 pm

Subject: Exam Registration: Payment Successful

To: <pnjyothi77@gmail.com>

Hello P N Jyothi,

**Your payment for the following course(s) is successful.**

Course	Amount
Computer Integrated Manufacturing	₹ 1100
Introduction to Machining and Machining Fluids	₹ 1100

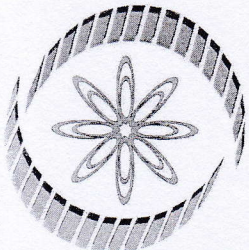
Here are your transaction details:

Transaction ID	order_Nd6ktb1qhGCzKy
Reference ID	pay_Nd6lqE2ui1u0be
Date	20/02/2024 16:24:08 IST
Total Amount	₹ 2200

For any grievance contact support : [support@nptel.iitm.ac.in](mailto:support@nptel.iitm.ac.in)

**If your transaction was successful, payment receipts will be available once the form closes.**





# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**P N JYOTHI**

for successfully completing the course

## Computer Integrated Manufacturing

with a consolidated score of **77** %

Online Assignments	23.44/25	Proctored Exam	54/75
--------------------	----------	----------------	-------

Total number of candidates certified in this course: **1352**

**Prof. B. V. Ratish Kumar**  
Chairman, Centre for Continuing Education  
IIT Kanpur



Indian Institute of Technology Kanpur

**Prof. Satyaki Roy**  
NPTEL Coordinator  
IIT Kanpur

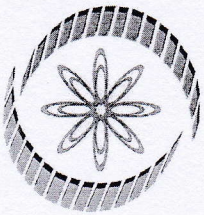


To verify the certificate

UJ No: NPTEL24ME27S5523Q1896

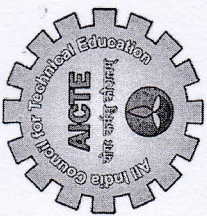
No. of credits recommended: 3 or 4





# NPTEL-AICTE Faculty Development Programme

(Funded by the MoE, Govt. of India)



*This certificate is awarded to*

**P N JYOTHI**

*for successfully completing the course*

**Introduction to Machining and Machining Fluids**

*with a consolidated score of 83 %*

**Prof. Andrew Thangaraj**  
NPTEL Coordinator  
IIT Madras



(Jan-Mar 2024)

Roll No: NPTEL24ME41S346600888

Duration of NPTEL course : 8 Weeks

The candidate has studied the above course through MOOCs mode, has submitted online assignments and passed proctored exams.

This certificate is therefore acceptable for promotions under CAS as per AICTE notifications dated 16<sup>th</sup> Nov, 2023, similar to other refresher / orientation courses.  
F.No. AICTE / RIFD / FDP through MOOCs / 2023