# IGNITE 2023



## A DAILY NEWSLETTER

**Editor in Chief** 

Dr. Srinivasan Alavandar Principal, ACT **Editors** 

Ms. B. Rashmi, AP-BME Ms. S.Marlin, AP - AI&DS Mokeshwar. P, Student - AI&DS

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Agnı College of Technology









It's a great honour and I deem it to be great pleasure witnessing our group company VISHNUSURYA Projects and Infra Limited getting listed in National Stock Exchange today at 10am. Agni College of Technology joins with the Vishnusurya Projects and Infra Limited in this big occasion and best wishes for the future.

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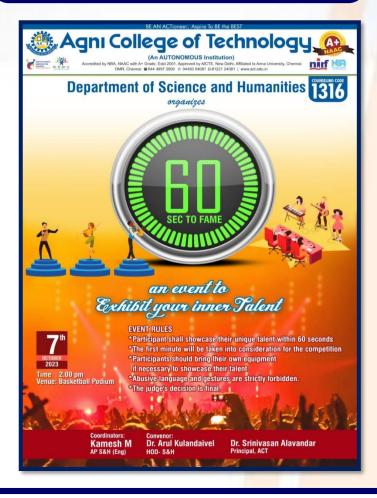
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### **60 SECONDS TO FAME**



A fun talent competition called "60 seconds to fame" was previously planned for was held on October 9, 2023, with as many students as possible from all 11 sections, showcasing their special talents in front of our Principal Dr. Srinivasan Alavandar and the Head of the Sciences and Humanities department, Dr. Arul Kulandaivel. Within 60 seconds, students from the Sciences and Humanities department have dazzled the audience with their special talents, which included Karate stunts, Crafts, Rap music, Dancing movements, and more. Mr. Kamesh Assistant Professor, Department of S&H (English) has organized this event properly.

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## CERTIFICATE OF COMPLETION

Presented to

#### INDRESH KUMAR

For successfully completing a free online course

Data Science Foundations



Provided by

Great Learning Academy

(On October 2023)

Indresh Kumar, II year student of the Department of Computer Science and Engineering has completed an online certificate in "Data Science Foundations" organized by Great Learning on October 2023.

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## CERTIFICATE OF COMPLETION

Presented to

### Sujith Varghese

For successfully completing a free online course Python for Data Science



Provided by

Great Learning Academy

(On October 2023)

To verify this certificate visit verify.mygreaflearning.com/VETYNMTT

Sujith Varghese, II year student of the Department of Computer Science and Engineering has completed an online certificate in "Python for Data Science" organized by Great Learning on October 2023.

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## CERTIFICATE OF COMPLETION

Presented to

### Sv Hamalesh

For successfully completing a free online course OOPs in Java



Provided by

Great Learning Academy

To verify this certificate visit verify.mygreatlearning.com/WCJDDFU.

Hamalesh. S V, II year student of the Department of Computer Science and Engineering has completed an online certificate in "OOPs in Java" organized by Great Learning on October 2023.

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## CERTIFICATE OF COMPLETION

Presented to

### Dheeraj A

For successfully completing a free online course Python Seaborn



Provided by

Great Learning Academy

(On Suptamber 2023)

o verify this certificate visit verify.mygreatleaming.com/PTDLCKVN

Dheeraj A, II year student of the Department of Computer Science and Engineering has completed an online certificate in "Python Seaborn" organized by Great Learning on October 2023.

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Hemalatha. K, Jai Surya. G. S, II year students, Department of Civil Engineering have successfully completed a online course on **Excel for Beginners** provided by Great Learning Academy. Mr. S.Vishnuvaradhan, Assistant Professor has mentored the students.

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Sarathi. R, Janavi. V, II year students, Department of Civil Engineering have successfully completed an online course on "Excel for Beginners" provided by Great Learning Academy. Mr. S. Vishnuvaradhan, Assistant Professor has mentored the students.

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Razul Parveen.S, Yuvasri.M, II year students, Department of Civil Engineering have successfully completed an online course on **Excel for Beginners** provided by Great Learning Academy. Mr. S.Vishnuvaradhan, Assistant Professor has mentored the students.

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Shridhar.B.S, Yashir, II year students, Department of Civil Engineering have successfully completed an online course on "Excel for Beginners" provided by Great Learning Academy. Mr. S.Vishnuvaradhan, Assistant Professor has mentored the students.



## Agnı College of Technology











### CERTIFICATE OF COMPLETION

Presented to

#### Jai Andru Barnik 12 A

For successfully completing a free online course Excel for Beginners

Provided by

Great Learning Academy

(On October 2023)



Jai Andru Barnik,II year student, Department of Civil Engineering has successfully completed an online course on **Excel for Beginners** provided by Great Learning Academy. Mr. S.Vishnuvaradhan, Assistant Professor has mentored the student.



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V James Santhosh, IV year student, Department of Mechatronics Engineering has been awarded with an **Elite with Silver Certificate** for successfully completing the **NPTEL** online course on **Product Design and Development** in the examination conducted in the month of September 2023.

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Harini P, III year student, Department of Mechatronics Engineering has been awarded with an **Elite with Silver Certificate** for successfully completing the **NPTEL** online course on **Product Design and Development** in the examination conducted in the month of September 2023.

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Ganesh Kumar K, II year PG student, Department of Mechatronics Engineering has been awarded with an **Elite Certificate** for successfully completing the **NPTEL** online course on **Product Design and Development** in the examination conducted in the month of September 2023.

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### Elite

## NPTEL Online Certification



This certificate is awarded to

**ESTHER EVANJALIN** 

for successfully completing the course

**Developing Soft Skills and Personality** 

with a consolidated score of 72

Online Assignments | 19.13/25 | Proctored Exam | 52.5/75

Total number of candidates certified in this course: 9659

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

Jul-Sep 2023

(8 week course)







Indian Institute of Technology Kanpur

Roll No: NPTEL23HS116S25322570 To verify the certificate



No. of credits recommended: 2 or 3

A. Esther Evanjalin, II Year Student, Department of Electronics and Communication Engineering has successfully completed and secured **Elite** in online NPTEL course titled **"Developing Soft Skills and Personality"** in the batch of July-September 2023.

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# Agnı College of Technology

Chennai.





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## NPTEL Online Certification



(Funded by the MoE, Govt. of India)

This certificate is awarded to SANJAY M

for successfully completing the course

**Product Design and Development** 

with a consolidated score of

Online Assignments | 18.33/25

Proctored Exam 30/75

Total number of candidates certified in this course: 951

Prof. Kaushik Ghosh. Professor(Chemistry) Coordinator CEC

Jul-Aug 2023

(4 week course)



Coordinator (NPTEL)



Indian Institute of Technology Roorkee





Roll No: NPTEL23ME123S45332208

To verify the certificate



No. of credits recommended: 1 or 2

Mr. Sanjay M, IV/Mechanical Engineering, successfully completed the NPTEL Online Certification course "Product **Design and Development**" with a consolidate score of 48%.



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### Elite

## NPTEL Online Certification

(Funded by the MoE, Govt. of India)

This certificate is awarded to

**EDWIN THOMAS A** 

for successfully completing the course

**Power Plant Engineering** 

with a consolidated score of

60

%

Online Assignments | 20.5/25

l P

Proctored Exam 39

39/75

Total number of candidates certified in this course: 423

Prof. Kaushik Ghosh, Professor(Chemistry) Coordinator CEC

Jul-Sep 2023

(8 week course)



Professor (BSBE) Coordinator (NPTEL)



Indian Institute of Technology Roorkee





Roll No: NPTEL23ME133S45332247

To verify the certificate

No. of credits recommended: 2 or 3

Mr. Edwin Thomas A, IV/Mechanical Engineering, successfully completed the NPTEL Online Certification course "**Power Plant Engineering**" with a consolidate score of 60%.

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### Elite

## Certification

This certificate is awarded to

**ARAVIND** 

for successfully completing the course

**Developing Soft Skills and Personality** 

with a consolidated score of

Online Assignments | 22.04/25

Proctored Exam 57/75

Total number of candidates certified in this course: 9659



Jul-Sep 2023 (8 week course) NPTEL Coordinator





Roll No: NPTEL23HS116S25331259

To verify the certificate



No. of credits recommended: 2 or 3

V. Aravind, II Year Student, Department of Electronics and Communication Engineering has successfully completed and secured Elite with Silver in online NPTEL course titled "Developing Soft Skills and Personality" in the batch of July-September2023.



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### Elite

## NPTEL Online Certification

(Funded by the MoE, Govt. of India)

This certificate is awarded to

VISHNU KUMAR S

for successfully completing the course

#### **Product Design and Development**

with a consolidated score of

64 9

Online Assignments | 19.17/25 |

Proctored Exam

45/75

Total number of candidates certified in this course: 951

Prof. Kaushik Ghosh, Professor(Chemistry) Coordinator CEC

Jul-Aug 2023 (4 week course)



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



Indian Institute of Technology Roorkee



Roll No: NPTEL23ME123S35332780

To verify the certificate



No. of credits recommended: 1 or 2

Mr. S. Vishnu Kumar, IV/Mechanical Engineering, successfully completed the NPTEL Online Certification course "Product Design and Development" with a consolidate score of 64%.

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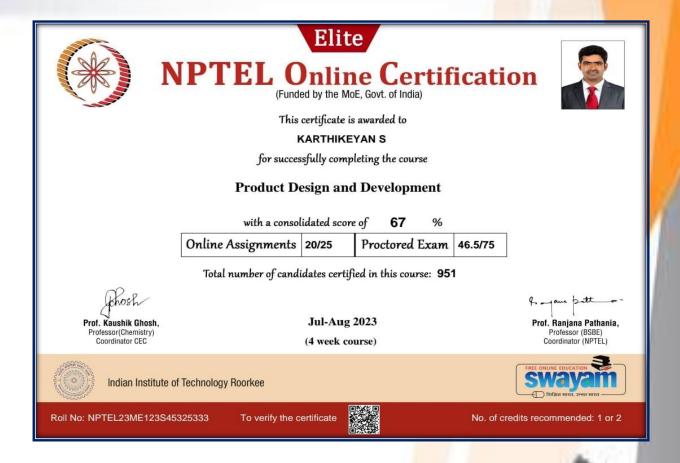




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Mr.S.Karthikeyan, Assistant Professor, Department of Mechatronics Engineering has been awarded with an **Elite Certificate** for successfully completing the **NPTEL** online course on **Product Design and Development** in the examination conducted in the month of September 2023.

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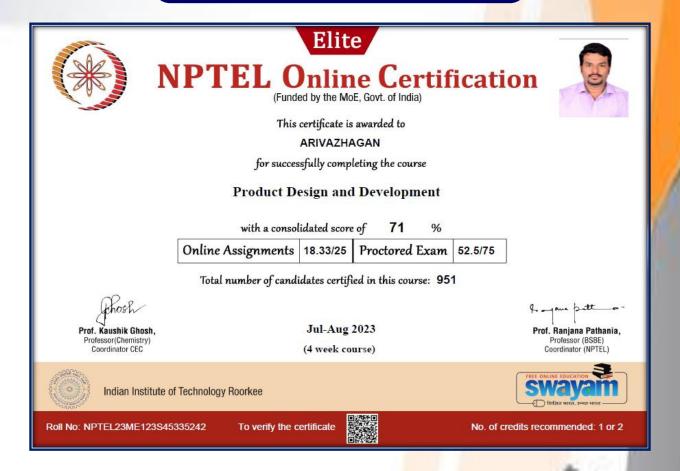
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Mr.R. Arivazhagan, Assistant Professor, Department of Mechatronics Engineering has been awarded with an **Elite Certificate** for successfully completing the **NPTEL** online course on "**Product Design and Development**" in the examination conducted in the month of September 2023.

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Mr.R. Arularasan, Assistant Professor, Department of Mechatronics Engineering has been awarded with an **Elite Certificate** for successfully completing the **NPTEL** online course on "**Product Design and Development**" in the examination conducted in the month of September 2023.

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A H











Office of the Controller General of Patents, Designs & Trade Marks Department of Industrial Policy & Promotion, Ministry of Commerce & Industry, Government of India



Application Details	
APPLICATION NUMBER	202341059266
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	04/09/2023
APPLICANT NAME	Dr.P.jayaseelan     Mr. K. Vetri Veimurugan     Dr. Krishnamohan Reddy Kunduru     Dr. B. Dhanasakkaravarthi     Mr.N.Rajiv Kumar     Dr. Nixon Samuel Vijayakumar G
TITLE OF INVENTION	AN ECO-PRIENDLY NATURAL FIBER COMPOSITES FOR MARINE APPLICATIONS
FIELD OF INVENTION	POLYMER TECHNOLOGY
E-MAIL (As Per Record)	drpjayaseelan@gmail.com
ADDITIONAL EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	-
PUBLICATION DATE (U/S 11A)	06/10/2023

Dr. B. Dhanasakkaravarthi, AP/ Mechanical Engineering, has applied a Patent to the IPI entitled " **An Ecofriendly Natural Fibre Composite For Marine Applications**".

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## NPTEL Online Certification



t unded by the mot, dove or mala,

This certificate is awarded to SARAVANAN K

for successfully completing the course

Introduction to Machine Learning (Tamil)

with a consolidated score of

(

Online Assignments 19.08/25

^

Proctored Exam 36/75

Total number of candidates certified in this course:287

Devendra Jalihal

Prof. Devendra Jalihal
Chairperson,
Centre for Outreach and Digital Education, IITM

Jul-Sep 2023

(8 week course)





Indian Institute of Technology Madras



and the second second second

Roll No: NPTEL23CS105S35336384

To verify the certificate

Mr. K. Saravanan, AP/Mechanical Engineering, has successfully completed the NPTEL Online Certification course "Introduction to Machine Learning (Tamil)" with a consolidate score of 55%.

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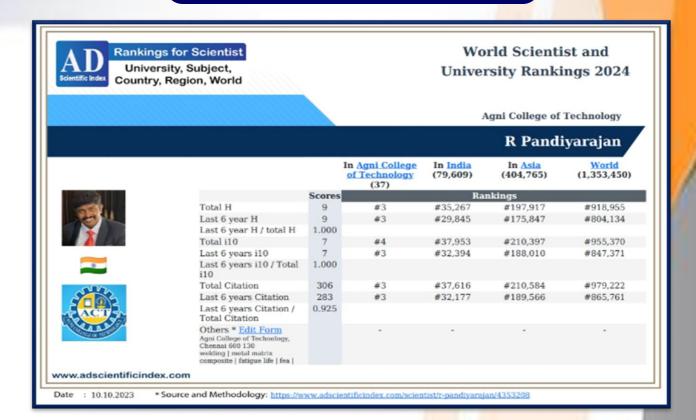




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Dr.R.Pandiyarajan, Head, Department of Mechatronics Engineering has been ranked 3<sup>rd</sup> in Agni College of Technology, 35,267<sup>th</sup> rank in India, 197,917<sup>th</sup> rank in Asia and 918,955<sup>th</sup> rank in the World in the World Scientist and University Rankings 2024 released on 10<sup>th</sup> October 2023 by AD Scientific Index (Alper-Doger Scientific Index), a ranking and analysis system based on the scientific performance and the added value of the scientific productivity of individual scientists.

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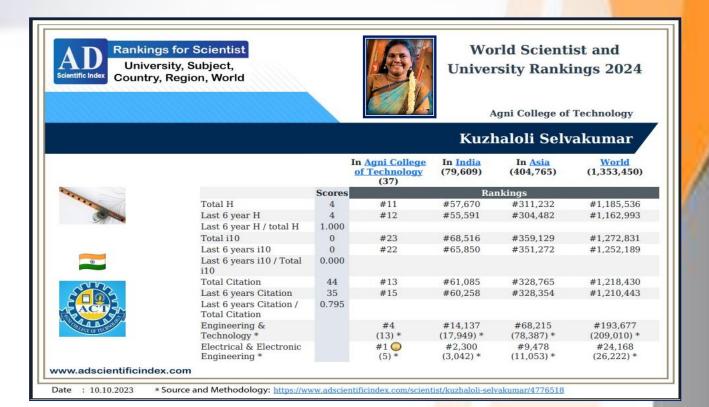
# Agnı College of Technology

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Dr.S.Kuzhaloli, Associate Professor, Department of Mechatronics Engineering has been ranked 11<sup>th</sup> in Agni College of Technology, 57,670<sup>th</sup> rank in India, 311,232<sup>nd</sup> rank in Asia and 1,185,536<sup>th</sup> rank in the World in the World Scientist and University Rankings 2024 released on 10<sup>th</sup> October 2023 by AD Scientific Index (Alper-Doger Scientific Index), a ranking and analysis system based on the scientific performance and the added value of the scientific productivity of individual scientists.

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### Elite

## NPTEL Online Certification



This certificate is awarded to

**OHMSHANKAR** 

for successfully completing the course

#### Introduction to Machine Learning

with a consolidated score of 62

2

Online Assignments | 23.79/25

Proctored Exam

38.27/75

Total number of candidates certified in this course: 3449

Jul-Sep 2023

(8 week course)



Coordinator, NPTEL IIT Kharagpur



Indian Institute of Technology Kharagpur



No. of credits recommended: 2 or 3

Roll No: NPTEL23CS87S35331147

To verify the certificate

Mr. S. Ohmshankar, Assistant professor, Department of Electronics and Communication Engineering has successfully completed and secured **Elite** in online NPTEL course titled "Introduction to Machine Learning" in the batch of July-Sep 2023.

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### Elite

## NPTEL Online Certification

Funded by the MoE, Govt. of India)

This certificate is awarded to

MOHAMED ISMAIL K

for successfully completing the course

Selection of Nanomaterials for Energy Harvesting and

**Storage Application** 

with a consolidated score of 64 %

Online Assignments | 19.17/25 | Proctored Exam | 45/75

Total number of candidates certified in this course: 143

Prof. Kaushik Ghosh, Professor(Chemistry) Coordinator CEC

Jul-Aug 2023

(4 week course)







Indian Institute of Technology Roorkee

Roll No: NPTEL23ME127S35331941

To verify the certificate



No. of credits recommended: 1 or 2

Mr. K. Mohamed Ismail, Assistant professor, Department of Electronics and Communication Engineering has successfully completed and secured **Elite** in online NPTEL course titled "Selection of Nanomaterials for Energy Harvesting and Storage Applications" in the batch of July-Aug 2023.

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R. Sai Ram and J. Praful Jeie, II-year students in the Department of Aerospace Engineering, participated in the **RC plane** in the event of Conscientia 2k23 at the Indian Institute of Space Science and Technology in Thiruvananthapuram.

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K. J. Sharafaraz Ahamed, T. Kalaiselvan, and R. Ranjithkumar, IV year students of the Department of Aerospace Engineering, participated in the **RC plane** in the event of Conscientia 2k23 at the Indian Institute of Space Science and Technology in Thiruvananthapuram.

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K.Surya and B. Selvakumar,III-year students in the Department of Aerospace Engineering, participated in the **RC Plane** in the event of Conscientia 2k23 at the Indian Institute of Space Science and Technology in Thiruvananthapuram.

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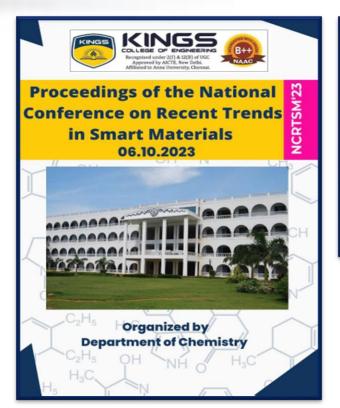
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OP01

### Green production of Manganinenanocomposite utilizing *Indigofera Tinctoria*leaf extracts for dye degradation

<sup>1</sup>S.Shunmugakani, <sup>2</sup>Srinivasan.A, <sup>3</sup>Mohamed Faizil. M A

<sup>1</sup>Department of Chemistry, Agni College of Technology, OMR, Thalambur Chennai 600130, Tamil Nadu, India. E-mail: <a href="mailto:sskanichem@gmail.com">sskanichem@gmail.com</a>

<sup>263</sup>Mechtronics Department, Agni College of Technology, OMR, Thalambur Chennai 600130, Tamil Nadu, India.

#### Abstract

In the current study, g-C<sub>3</sub>N<sub>4</sub>/ MnO<sub>2</sub> were synthesized by a green method using the leaf extract of Indigofera Tentoria leaf. The synthesizedManganinenanocomposite (MnNC) was characterized by using various instrumental techniques like FTIR, XRD, SEM-EDAX, and UV-Visible spectroscopy for confirming the presence of Manganineparticles in nanosize. The synthesized Manganinenanocomposite (MnNC) shows an photocatalytic property in the degradation of dyes and textile waste water under light irradiation. Constructing two-dimensional (2D) composites using layered materialsis ideal with an creation of a desired impression to achieve high-efficiency photocatalysts.

Keywords: g-C3N4, tMnO2Indigofera Tentoria leaf, photocatalyticdegradation





Srinivasan. A and Mohamed Faizil. M A, II year students, Department of Mechatronics Engineering have **published a paper** titled **Green production of Manganinenanocomposite utilizing Indigofera Tinctoria leaf extracts for dye degradation** in the **National Conference on Recent Trends in Smart Materials** (NCRTSM'2023) organized by Department of Chemistry, Kings College of Engineering, Tamilnadu on 6<sup>th</sup> October 2023.

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On October 6, 2023, Sandhiya.S, IV-year student from the Department of Aerospace Engineering, achieved success by participating in the **Chandrayaan-3 MahaQuiz** competition, which focused on an overview of aerospace engineering. This competition was organised by the ISRO Satellite Centre in collaboration with the government.

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Zubaida I year students (BME), Department of Science and Humanities has successfully completed the **Chandrayaan** - **3 Mahaquiz** organized by the ISRO Satellite Centre in collaboration with the MyGov.

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Mahalakshmi J, III Year, Department of Electrical and Electronics Engineering has successfully completed the **CHANDRAYAN MAHA QUIZ** conducted by ISRO on 09.10.2023

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Kavipriya, III Year, Department of Electrical and Electronics Engineering has successfully completed the **CHANDRAYAN MAHA QUIZ** conducted by ISRO on 09.10.2023

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# Certificate

OF PARTICIPATION

MyGov congratulates

### *NISHANTHI KATTAPPAN*

for successfully completing the **Chandrayaan - 3 Mahaquiz.**We acknowledge your efforts. Keep participating!

Shri N Sudheer Kumar Director (CBPO), ISRO



Shri Akash Tripathi CEO, MyGov

Nishanthi Kattappan, IV Year, Department of Electrical and Electronics Engineering has successfully completed the **CHANDRAYAN MAHA QUIZ** conducted by ISRO on 09.10.2023

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Asvika. M, III year Student, Department of Artificial Intelligence and Data Science has Participated and Presented paper entitled "Enhancing Environmental Sustainability in Concrete mix Design" in the International Conference on Engineering and Technology Sponsored by AICTE, New Delhi and organized by Selvam College of Engineering and Technology, Namakkal on 21st and 22nd September 2023.

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### FACULTY PARTICIPATION







Accredited "A" Grade by NAAC | 12B Status by UGC | Approved by AICTE













## CERTIFICATE

OF PARTICIPATION

THIS CERTIFICATE IS PRESENTED TO

### PRINSLIN L

Organised by School of Computing, Department of Computer Science and **Engineering** for Actively Attending the FDPon"**Empowering Educators**: Navigating Recent Trends" Conducted on 25thto 30thSeptember 2023.



Dean, School of Computing





Mrs. Prinslin L, Assistant Professor, Department of Computer Science Engineering has participated Faculty and Development Program on "Empowering Educators: Navigating organized 25<sup>th</sup> Trends" by Sathyabama Recent from September to 30<sup>th</sup> September 2023.

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### FACULTY PARTICIPATION



Mrs. Suganya, Assistant Professor, Department of Computer Science and Engineering has participated Faculty Development Program on "Data Science and Machine Learning" organized by Sathyabama from 19<sup>th</sup> to 24<sup>th</sup> September 2023.

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### **INDUSTRIAL VISIT**



II Year Students from Department of ECE went for an industrial visit to "Central Institute of Petrochemicals Engineering & Technology (CIPET)" Ministry of Chemicals & Fertilizers, Govt. of India, T.V.K. Industrial Estate, Guindy, Chennai 600 032, on 09.10.2023. Students learned about the CAD/CAM/CAE, Tooling & Mould Manufacturing, Plastics Processing, and Testing.

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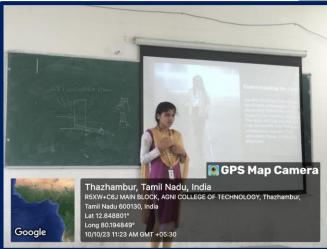


## **PROJECT REVIEW**









II year Students, Department of Artificial Intelligence and Data Science have presented their project ideas as the Zeroth Review coordinated by Dr. Ishwarya. M. V, Head, Department of Artificial Intelligence and Data Science on 10<sup>th</sup> October 2023.

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### DEPARTMENT ACTIVITY





Dr.R.Pandiyarajan, Head, Department of Mechatronics Engineering delivered a talk to the II, III and IV year students of Mechatronics Engineering and motivated them to actively engage themselves in projects which is vital for their academic and personal growth. He also shared his ideas about the participation in 5G Hackathon and contribution towards publications and funded projects.

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## **IGNITE**

### **GALLERY**













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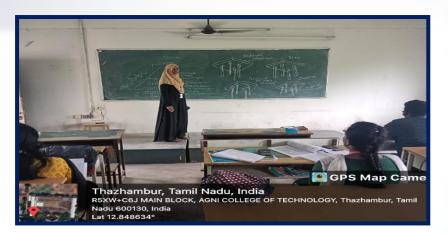








### STUDENT ACTIVITY





The Department of Civil Engineering, III Year Students, have convened seminar as part of curriculum internal evaluation components for the course Design of Reinforced Concrete Structures on topic "Introduction to Flat Slab and Staircase in Structures". Mr. S.Venkateswaran, Assistant Professor & Subject Incharge has conducted the session.

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