

IGNITE 2024



A DAILY NEWSLETTER

Editor in Chief

Dr. Srinivasan Alavandar
Principal, ACT

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Mr. K. Balaji Sundharam, AP-S&H
Ms. S. Indu, AP-BME
Mr. V. Kothantapani, EEE-IIIrd Yr

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PLACEMENT NEWS



The final year students from **(CSE-3, AIDS-1)** got placed in **KAAR Technologies** as **Tech Sergeant (SAP)** with a CTC of **6.5 LPA**. **KAAR Technologies** is a global consulting firm that helps businesses to achieve their goals through digital transformation services.

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STUDENT ACHIEVEMENT



Elite

NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)

This certificate is awarded to

MAHALAKSHMI BABU

for successfully completing the course

Soft Skill Development

with a consolidated score of **64** %

Online Assignments	22.79/25	Proctored Exam	41.33/75
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Total number of candidates certified in this course: **8456**

Jul-Sep 2024

(8 week course)



Indian Institute of Technology Kharagpur



swayam





Prof. Haimanti Banerji
Coordinator, NPTEL
IIT Kharagpur

Roll No: NPTEL24HS101S233102088

To verify the certificate



No. of credits recommended: 2 or 3

Mahalakshmi Babu, IInd-year, CSE student, under the mentorship of Mrs. R. Rajitha, Assistant Professor, Department of Science and Humanities (Chemistry) completed the NPTEL Online Certification Course on “Soft Skill Development” with the ELITE CATEGORY.

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STUDENT ACHEIVEMENT



N. Ramakrishnan and Y. Queenblesy, IIIrd-year students, Department of Chemical Engineering, have secured **third place in the event “Canvas of Ideas (Poster Presentation)” conducted at Invente’24, a national level tech fest organized by SSN College of Engineering, held on 27th and 28th September 2024.**

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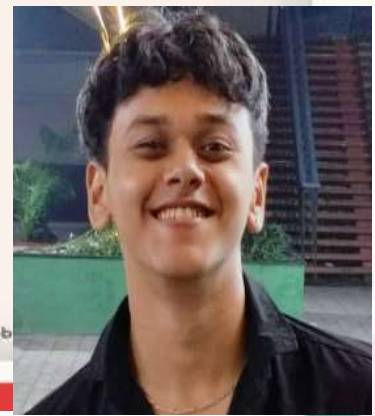
STUDENT ACHIEVEMENT



Dr. Ishwarya M.V., Associate Professor and Head of the Department of Artificial Intelligence and Data Science, mentored **Daseetha R, a third-year AIDS student to complete the internship titled “FULLSTACK WEB DEVELOPMENT INTERNSHIP PROGRAM” from 3rd May 2024 to 3rd June 2024 at CREDO SYSTEMZ.**

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STUDENT ACHIEVEMENT



Dr. Ishwarya M.V., Associate Professor and Head of the Department of Artificial Intelligence and Data Science mentored **Varun S, a third-year AIDS student to complete the internship titled “FULLSTACK WEB DEVELOPMENT INTERNSHIP PROGRAM” from 3rd May 2024 to 3rd June 2024 at CREDO SYSTEMZ.**

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STUDENT' ACHIEVEMENT



Dr. Ishwarya M.V., Associate Professor and Head of the Department of Artificial Intelligence and Data Science mentored Kishore P, a third-year AIDS student to complete the internship titled “FULLSTACK WEB DEVELOPMENT INTERNSHIP PROGRAM” from 3rd May 2024 to 3rd June 2024 at CREDO SYSTEMZ

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STUDENT ACHIEVEMENT



K. Devinasree (CSE), a first-year student in the Department of Science and Humanities, has successfully completed the online courses on “**Artificial Intelligence Fundamentals and Intro to Graphic Design with Photoshop**” provided by Great Learning Academy in the month of September 2024.

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STUDENT ACHIEVEMENT



CERTIFICATE OF COMPLETION

Presented to

Thabitha

For successfully completing a free online course
Healthcare Management

Provided by

Great Learning Academy

(On October 2024)

Thabitha (BME), a first-year student in the Department of Science and Humanities, has successfully completed the online courses on “**Healthcare Management**” provided by Great Learning Academy in the month of September 2024.

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STUDENT ACHIEVEMENT



CERTIFICATE OF COMPLETION

Presented to

Savitha Sree.N

For successfully completing a free online course
Introduction to Machine Learning

Provided by

Great Learning Academy

(On October 2024)

N. Savitha Sree (BME), a first-year student in the Department of Science and Humanities, has successfully completed the online course on **“Introduction to Machine Learning”** provided by Great Learning Academy in the month of September 2024.

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STUDENT ACHIEVEMENT



S. Jeevitha (CSE), a first-year student in the Department of Science and Humanities, has successfully completed the online courses on **“Data Science Foundations and Introduction to Artificial Intelligence”** provided by Great Learning Academy in the month of September 2024.

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STUDENT ACHIEVEMENT



B. Yogeshwaran (IT), a first-year student in the Department of Science and Humanities, has successfully completed the online course on **“Introduction to Generative AI Studio”** provided by Simplilearn SkillUP in the month of October 2024.

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STUDENT PARTICIPATION



Umar Faruk, Kalai Selvan R, IVth year student, Department of Mechanical Engineering, has successfully completed the online courses on “Mini Challenge-Garbage Moving Robot & Design and Build the TaskBot” from Infosys Springboard.

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STUDENT PARTICIPATION



CERTIFICATE OF COMPLETION

Presented to

Mohammed Nadhim

For successfully completing a free online course
Getting Started with Gemini

Provided by

Great Learning Academy

(On September 2024)



To verify this certificate visit <https://www.mygreatlearning.com/certificate/MYJLEWOI>

Mohammed Nadhim, a IIIrd-year student in the Department of Aerospace Engineering, has successfully completed a Free Online Course on “Getting Started with Gemini” provided by Great Learning Academy on September 2024.

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STUDENT PARTICIPATION



Jai Akash L, a IIIrd-year student in the Department of Information Technology, participated in the **Innovation, Design and Entrepreneurship[IDE] Bootcamp** from 23rd to 27th September 2024 at SRM IST, Tiruchirappalli, organized by All India Council for Technical Education (AICTE) & Ministry of Education's Innovation Cell(MIC).

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STUDENT PARTICIPATION



Udith Yashica M, a IIIrd-year student in the Department of Information Technology, participated in the **Innovation, Design and Entrepreneurship[IDE] Bootcamp** from 23rd to 27th September 2024 at **SRM IST, Tiruchirappalli**, organized by All India Council for Technical Education (AICTE) & Ministry of Education's Innovation Cell(MIC).

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STUDENT PARTICIPATION



Jabaraj S, a IIIrd-year student in the Department of Information Technology, participated in the Innovation, Design and Entrepreneurship[IDE] Bootcamp from 23rd to 27th September 2024 at SRM IST, Tiruchirappalli, organized by All India Council for Technical Education (AICTE) & Ministry of Education’s Innovation Cell(MIC).

STUDENT PARTICIPATION



G. Tarun Raj, a IIIrd-year student in the department of Electronics and Communication Engineering, participated in the NEXATHON 2K24 on **“Connecting to Innovation Sprints”** organized by the Department of Artificial Intelligence and Data Science held at **Vel Tech Multi Tech Dr. Rangarajan Dr. Sakunthala Engineering College** on **01.10.2024**.

STUDENT PARTICIPATION



B. Vijaya Kumar, a IVth-year student in the Department of Electronics and Communication Engineering, participated in the NEXATHON 2K24 on “**Connecting to Innovation Sprints**” organized by the department of Artificial Intelligence and Data Science held at **Vel Tech Multi Tech Dr. Rangarajan Dr. Sakunthala Engineering College** on **01.10.2024**.

FACULTY ACHIEVEMENT

REVISTAMATĒRIA

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V.29 N.4

Multi-objective optimization on turning of additively manufactured Inconel 625 alloy using grey relational analysis

Muthukumaran Kathavarayan¹, Arul Kulandaivel², Visagan Arjunan¹

¹Anna University, Madras Institute Technology, Department of Production Technology, Chromepet, Chennai, Tamil Nadu, India.

²Agni College of Technology, Department of Mechanical Engineering, Thalambur, Chennai, Tamil Nadu, India.

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ABSTRACT

The unique properties of Inconel 625 make it desirable for engineering applications. It is expensive and complex to machine Inconel 625 due to its unique properties. In light of the widespread use of turned components in crucial aircraft engines, the turning method was chosen to evaluate the impact of turning parameters on cutting forces, surface roughness, material removal rate and temperature. In this study, the Taguchi optimization approach is applied to optimize cutting parameters with laser textured tungsten carbide with HBN nano particle filled cutting tools during high-speed turning of Inconel 625. The cutting parameters include the depth of cut, feed rate, and speed at which the work piece is turned. ANOVA was used to identify the most influencing process parameters on the turning operation. The cutting speed of 14 m/min, Feed rate of 0.3 mm/rev and depth of cut of 0.33 mm gave a better cutting force of 239 N and material removal rate of 3.22 mm³/min and also a reduced surface roughness to 2.834 μm, and temperature of 61°C. From ANOVA, feed rate 77.38% was identified the most influencing process parameter on the turning operation followed by cutting speed 8.65% and depth of cut 0.41%.

Keywords: Turning; Inconel 625 alloy; Selective laser melted; Taguchi GRA; ANOVA.

Dr. Arul Kulandaivel, Head, Department of Science and Humanities, has published a research article titled “Multi-Objective optimization on turning of additively Manufactured Inconel 625 alloy using grey relational analysis” in the Revista materia Annexure-I, Anna University Indexed Journal.

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FACULTY ACHEIVEMENT



Elite

NPTEL ONLINE CERTIFICATION
(Funded by the MoE, Govt. of India)

This certificate is awarded to
ARUNODHAYA N
for successfully completing the course

Technologies for Clean and Renewable Energy Production

with a consolidated score of **78** %

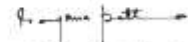
Online Assignments	21.63/25	Proctored Exam	56.25/75
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Total number of candidates certified in this course: **934**



Prof. Kaushik Ghosh,
Professor (Chemistry)
Coordinator CEC

Jul-Sep 2024
(8 week course)



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



Indian Institute of Technology Roorkee



Roll No: NPTEL24CH43S233106114

To verify the certificate 

No. of credits recommended: 2 or 3

Mr. N. Arunodhaya, Assistant Professor, Department of Chemical Engineering, has completed **ELITE –SILVER** certification for the NPTEL course “Technologies for Clean and Renewable Energy Production”

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FACULTY ACHIEVEMENT



Elite

NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)

This certificate is awarded to

RAJITHA

for successfully completing the course

Soft Skill Development

with a consolidated score of **64** %

Online Assignments	22.79/25	Proctored Exam	41.25/75
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Total number of candidates certified in this course: **8456**

Jul-Sep 2024
(8 week course)



Indian Institute of Technology Kharagpur



FREE ONLINE EDUCATION
swayam
Online mode, smart work

Roll No: NPTEL24HS101S133109305

To verify the certificate



No. of credits recommended: 2 or 3



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

Mrs. R. Rajitha, Assistant Professor, Department of Science and Humanities (Chemistry) has completed the NPTEL Online Certification Course on **“Soft Skill Development”** with ELITE during the period July – September 2024.

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FACULTY ACHEIVEMENT



NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)

This certificate is awarded to
R BEAULA JASMINE
 for successfully completing the course

Research Methodology

with a consolidated score of **56** %

Online Assignments	22.71/25	Proctored Exam	33.37/75
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Total number of candidates certified in this course: **3922**



Prof. Andrew Thangaraj
Chair
Centre for Outreach and Digital Education, IITM



Skill India
where skill - grows you



Prof. Vignesh Murthyrajyan
NPTEL Coordinator
IIT Madras



Indian Institute of Technology Madras



swayam



NPTEL-AICTE Faculty Development Programme

(Funded by the MoE, Govt. of India)

This certificate is awarded to
R BEAULA JASMINE
 for successfully completing the course

Research Methodology

with a consolidated score of **56** %



Prof. Andrew Thangaraj
NPTEL Coordinator
IIT Madras



AICTE
All India Council of Technical Education



QR Code
(Jul-Sep 2024)

Roll No: NPTEL24GE415233103702

Duration of NPTEL course: 8 Weeks

Mrs. R. Beaula Jasmine, Head, Department of Civil Engineering, has successfully completed the courses on NPTEL along with an FDP certificate on the topic “**Research Methodology**” on September 2024.

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FACULTY ACHEIVEMENT



Mr. S. Venkateswaran, Assistant Professor, Department of Civil Engineering, has successfully completed the courses on NPTEL along with an FDP Certificate on the topic “**Data Science for Engineers**” on September 2024.

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FACULTY ACHIEVEMENT



Elite

NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)



This certificate is awarded to
DHANASAKKARAVARTHI B
 for successfully completing the course
**Selection of Nanomaterials for Energy Harvesting and
 Storage Application**

with a consolidated score of **60** %

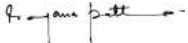
Online Assignments	23.33/25	Proctored Exam	37.01/75
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Total number of candidates certified in this course: **194**



Prof. Kaushik Ghosh,
Professor (Chemistry)
Coordinator CEC

Jul-Aug 2024
(4 week course)



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



Indian Institute of Technology Roorkee



Roll No: NPTEL24ME79S433103775

To verify the certificate

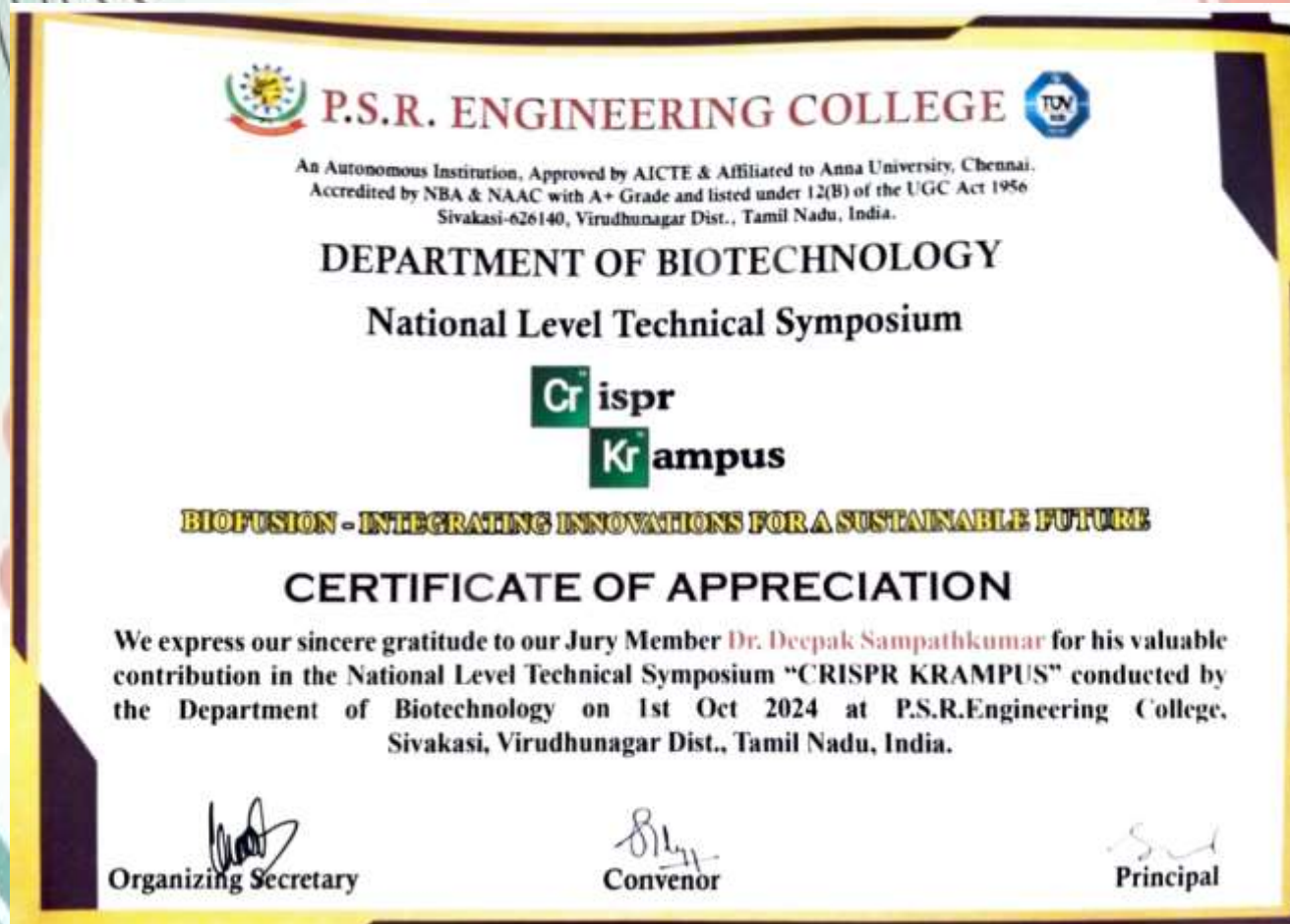


No. of credits recommended: 1 or 2

Mr. Dhanasakkaravarthi B, Assistant Professor, Department of Mechanical Engineering has successfully completed the NPTEL Course on the Selection of Nanomaterials for Energy Harvesting and Storage Application with Elite Category.

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FACULTY ACHIEVEMENT



Dr. Deepak Sampathkumar, Assistant Professor in the MHT Department, acted as a jury member for the national-level technical symposium organized by **PSR College of Engineering, Sivakasi**, Virudhunagar district on 1.10.2024.

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GALLERY



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CLASS ACTIVITY



Dr. S. Swathi, Assistant Professor, **Department of Science and Humanities (Physics)** conducted a classroom activity on finding Centre of mass, surface tension, viscosity and I shaped griders for section C (Cse-A) first year students.

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REMEDIAL COACHING CLASS



Dr. Ishwarya M.V., Associate Professor and Head of the Department of Artificial Intelligence and Data Science mentored the second year students of AIDS for the preparation of Discrete Mathematics MA3354 during the coaching class held on 01.10.24 from 3.45 to 5.00 pm.

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**REMEDIAL COACHING
CLASS**



**Mrs. Amala Preyadarchane J, Assistant Professor,
Department of Artificial Intelligence and Data Science,
conducted a coaching class for the second year students of
AIDS in preparation for Digital Principles and Computer
Organization CS3352 on 03.10.24 from 3.45 to 5.00 pm.**

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REMEDIAL COACHING CLASS



Mrs. K. Dhanabhavithra, Assistant Professor, Department of Artificial Intelligence and Data Science, conducted the coaching class for the third year students of AIDS in preparation for Multimedia and Animation CCS352 on 03.10.24 from 3.45 to 5.00 pm.

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