Department of Production Technology

Welcomes

NAAC PEER TEAM MEMBERS
Vision of the Department
To develop educational avenues for the students to emerge as disciplined researchers, technocrats, and entrepreneurs making transformative impact on establishing a world class society in the domain of Production, Manufacturing and Mechatronics Engineering.

Mission of the Department
1. To impart students with knowledge on modern manufacturing systems by incorporating critical thinking, leadership qualities, communication with interpersonal skills.
2. To create a conducive environment for exchange of ideas towards research, creativity, innovation and entrepreneurship.
3. To follow the values of integrity and honesty through curricular, co-curricular and extracurricular activities.

Highlights of the Department
- Total funding ≈ 23 Crore from UGC-UPE, DST-SERB & TANII
- Total of 5 Indian Patents granted and 4 published
- Highest Impact Factor of 8.4 (Journal of Mechanical System and Signal Processing)

Product development: To cater the societal needs
- Antibiogram Device, UGC – UPE
- AU – MIT BOT COVID19
- Exoskeleton for Physically Challenged people.

- Siemens Centre of Excellence (SCOE) - 546.84 Cr
- 9 out of 14 Laboratories

• MOU with the Govt. of Tamilnadu Dr.MGR Medical University Chennai – UPE (Limited Manufacturing Facility) since 2022
1. CURRICULAR ASPECTS

Overall change in syllabus R2015 vs R2019 (%)

Percentage of Content Added / Revised

**B.E Production Engineering**
- 36%

**M.E Manufacturing Engineering**
- 54%

**M.E Mechatronics Engineering**
- 50%

### NEW COURSES INTRODUCED IN Regulation - 2019

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<td>Green Concepts</td>
<td>Industry 4.0 and Internet of Things</td>
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<td>Industrial Design and Ergonomics</td>
<td>Multi-Body Dynamics</td>
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**Programmes and Credits**

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1. CURRICULAR ASPECTS

COURSES RELATED LOCAL, NATIONAL AND INTERNATIONAL NEEDS

LOCAL NEEDS
- Manufacturing Engg
- Advanced Casting
- Metal Forming
- Modern Manufacturing Process

NATIONAL NEEDS
- Micromachining and Fabrication
- Additive manufacturing,
- Processing of Plastics and polymers
- Micro electro mechanical systems
- Green electronics manufacturing
- Communication Needs

INTERNATIONAL NEEDS
- Advanced Welding Technology
- Production of Automotive components
- Mechatronics, Robotic Technology
- Machine Vision, Industrial Automation
- Industry 4.0, Vetronics
- Computer Vision and Deep Learning

MULTI DISCIPLINARY
- Mechatronics for Automation
- Robotics and Automation
- CNC, CIM
- Multibody Dynamics, Internet of Things
- Medical Mechatronics
- Advanced Computer Vision

2019 COURSES
1. CURRICULAR ASPECTS

1.3.1 COURSES OFFERED FOR SOCIETAL NEEDS/ CROSS CUTTING ISSUES

- Values and Ethics – 28 Students
- Human Values
- Human Rights
- Human relation at works (3rd semester in UG)

- Environmental Sustainability - 426 Students
  (4th semester core in UG)
- Green concepts
  (PG Manufacturing)

- Entrepreneurship Development
- Research Methodology and IPR
  (PG Mechatronics & Manufacturing)

- Gender and Culture Development – 27 Students
- Law and Engineering – 46 Students
  (4th semester in UG)

**2019 COURSES**

Link for Humanities and Audit courses list
https://docs.google.com/document/d/1kHXSWHBzzIXNOOG2EWS_Cwf3uR3qE365/edit?usp=drive_link&ouid=117649139199137794288&rtspot=true&sd=true

Course Wise Student details
https://docs.google.com/document/d/1w89-kv_JXk16CIG1bkD6DKkC05mUEgm/edit?usp=sharing
&ouid=117649139199137794288&rtspot=true&sd=true
1. CURRICULAR ASPECTS

1.1.1 OBE FRAMEWORK IN CURRICULUM & SYLLABI

Programme Articulation Matrix

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SEMESTER VII

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PRACTICAL

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TOTAL: 45 PERIODS

CO-PO/PSO MAPPING

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CO1: Understanding the process of Pattern making, moulding and core making.
CO2: Design and simulated the thermal, metallurgical and mechanical aspects during solidification in casting and welding and their role on quality of cast or weld objects.
CO3: Analyse the welding process behavior for conventional and newer welding techniques.
CO4: Have generalized knowledge on various welding technology used in manufacturing.
CO5: Design the gating and riser system needed for casting and requirements to achieve defect free casting.

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Syllabus

1. CASTING PROCESSES

2. SPECIAL CASTING PROCESSES

3. METAL JOINING PROCESSES

4. SPECIAL WELDING PROCESSES

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Course Outcomes:

At the end of the course, students will be able to:
CO1: Understand the process of Pattern making, Moulding and Core making.
CO2: Analyse the thermal, metallurgical and mechanical aspects during solidification in casting and welding and their role on quality of cast or weld objects.
CO3: Analyse the welding process behavior for conventional and newer welding techniques.
CO4: Have generalized knowledge on various welding technology used in manufacturing.
CO5: Design the gating and riser system needed for casting and requirements to achieve defect free casting.
2. Teaching - Learning and Evaluation

2.2.1 Advanced Learners and Slow Learners

**Advanced Learners**
- Advancing the subjects from higher semester (5 Courses, 11 Students)
- Drop the subjects by studying NPTEL courses (14 Courses, 26 Students)
- Value Added Courses from L&T and CUIC (9 Courses, 143 Students)
- Student Exchange Program (4 Nos.)

**Slow Learners**
- Conducting Extra Classes for Lateral Entry Students
- Re-exams, Assignment
- Maximum Period for completion of Programme - UG/PG – 7/4 Years
- 2 courses (maximum 8 credits) can be dropped in a semester
- Register Additional Online Course to acquire basic knowledge

**Special Class Arrangements:**
https://drive.google.com/file/d/1H6m0rqQ-Wh6J2P-mjd_Zr3aBREgS1oOF/view?usp=sharing

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2.3.2 ICT Enabled Tools

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2.3.1 Learnings: Experimental, Participative, Problem Solving

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2. Teaching - Learning and Evaluation

2.5.3 IT Integration and Reforms in Exam Procedure

2.6.1 Learning Outcomes Integrated with Assessment Process

Custom Grade Generation

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Timetable in SEMS

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May 2019
2. Teaching - Learning and Evaluation

Attainment of PO,PSO,CO

Target for theory courses: 60%, Practical courses: 70%
Analytical courses: 50% target for attainment in COs
3. Research, Innovation and Extension

**3.1.1 Research Facility**

- Major Equipment UGC – UPE (443 Lakhs)
- 5 Axes CNC Machine, 2019 (60 L)
  - 17 Projects
- Non-Contact Roughness Tester, 2019 (40 L)
  - 66 Projects
- Ultrasonic Welding, 2018 (25 L)
  - 09 – PG Projects
- 6 Axes Robot with Torque Compliance Arm, 2019 (22 L)
  - Curriculum -Experiment
- 6 Axes ABB Robot, 2018 (22 L)
  - Curriculum - Experiment

**Workshop’s Conducted By Students – 48**

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**3.1.4 National Fellowship**

- Sabique P V (2017-2022) – National Fellowship for OBC
- Madhavan P (2017-20) - JRF-SERB Project Associate
- Lakshmi Narayanan P (2018-20) - JRF-SERB Project Associate

**Research lab link:** https://mitindia.edu/en/pt-infra/pt-relab

**Research Centres:**
- Centre for Robotics and Automation, 2022
- Centre for Intelligent Prosthetics and Exoskeleton - TANII, 2020
### Completed Projects

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<thead>
<tr>
<th>S. No.</th>
<th>Title / Principal Investigator</th>
<th>Duration</th>
<th>Funding Agency</th>
<th>Amount (Rs. Lakhs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Design and Development of Antibiogram Device 1-PG student, Product development</td>
<td>2016 - 19</td>
<td>UPE</td>
<td>443</td>
</tr>
<tr>
<td>2</td>
<td>Spirograph based nonwoven fibre mat reinforced polymer composite fabrication with near isotropic mechanical property – Dr. A. Siddharthan, 1-PhD; 4 -PG students</td>
<td>2017 - 20</td>
<td>DST SERB</td>
<td>47</td>
</tr>
<tr>
<td>3</td>
<td>Evaluation of mechanical property of injection moulded inorganic reinforced polymer composite bone screw with bioresorption: effect of volume fraction – Dr. A. Siddharthan, 1-PhD; 6 -PG students</td>
<td>2017 - 20</td>
<td>DST SERB</td>
<td>54</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td></td>
<td></td>
<td><strong>558.83</strong></td>
</tr>
</tbody>
</table>

### Ongoing Project

<table>
<thead>
<tr>
<th>S. No</th>
<th>Title / Principal Investigator</th>
<th>Duration</th>
<th>Funding Agency</th>
<th>Amount (Rs. Lakhs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Development of semi and fully automated intelligent exo-skeletal and prosthetics for disabled communities Dr. R. Sivaramakrishnan, Dept of PT Dr.P.Ganesh, Dept of PT 03-UG; 02-PG student</td>
<td>2020 - 23</td>
<td>TANII</td>
<td>1782</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td></td>
<td></td>
<td><strong>1782</strong></td>
</tr>
</tbody>
</table>

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**No of Students Completed Ph.D**

- Dr. A. Rajadurai: 01
- Dr R Sivaramakrishnan: 02
- Dr. A. Siddharthan: 02
- Dr. J. Jancirani: 03
- Dr. G. Bhaskar: 06
- Dr. G. Kumaresan: 01

**Equipment Sanctioned Under TANII**

- https://docs.google.com/document/d/19V9QzWf0OnOcxoykO-OmFTalyWJ78XR/edit?usp=sharing&ouid=117649139199137794288&rtpof=true&sd=true
3. Research, Innovation and Extension

3.3.1 Research Eco-System

CIPR – 2/3rd of Patent Registration Fee, University will pay for Student/Staff

Fees Concession - Ph.D
• 50 % Fees Concession for Teaching staff pursuing Ph.D., - 08

Travel Grants (Present a Paper - Int.Conf)
• Dr. G. B. Bhaskar - Rs.1,58,670 - University of Tanta, Egypt - 25.03.19 to 28.03.19
• Dr. M. Thirumal Azhagan - Rs. 1,30,076 – BITS Dubai - 20.11.19 to 22.11.19

Non GATE Contingency - Rs.1 Lakh

Awards
• Dr.G.Kumaresan & Dr.M.Manoj – Best NSS programme officer award

Consortium
• Professional Activity – Rs.50,000
• Membership TPS, IYPE

Guest Lectures -12 Nos. (from 2021-23)
• Prof.K.Narasimhan.,(Metallurgical Engg & Material science),IIT Bombay – 21.12.22
• Dr.P.Shanmugam (Chief Scientist -AcSIR)- 15.02.22

Fellowships
• ACRF -5 Nos.
• GATE -27 Nos.
• TN Govt stipend -11 Nos.

CSRC - Rs.50,000 paid to newly joined staff

3.4 Research Publications – 60
Q1-10, Q2-31, Q3-8, Q4-7

3.5.1 MOUs – 11 (2 Staff +9 Industry Sponsored Students)

https://drive.google.com/file/d/1EHxhfQJFx7Wd1vbfTeMZyCPCGahPS/view?usp=sharing

3.6.1 Extension Activities – NSS

https://drive.google.com/file/d/1KJlwcYZ5YEtPKzvPeLFX4eZKHUGMgv/view?usp=sharing

Makers Lab – 49 % (PT Students Usage)

https://drive.google.com/file/d/17db6D6uLAGniUBx7KGgOvCgMfmi6ZM/view?usp=sharing

Open Day on 05-09-2022 (110 Visitors) from school, polytechnic and other students 20/07/23 (148 Visitors)

Tangible Outcomes:
• Indian Patents : 4 Granted, 4 Published, Australian Patent – 1 granted, Patent Filed- 02
• Books/Book Chapters: 07
• Ph.D Graduated: 18

(https://www.intechopen.com/chapters/74686)
3. Research, Innovation and Extension

3.6.1 Extension Activities

PRODUCTS DEVELOPED

ANTIBIOGRAM DEVICE (UGC – UPE Pathogen Identification-6 Hour Accuracy (NABL) - 99.07% Supplied to Premier Hospitals(CMC Vellore, Microbiology Lab-Coimbatore) – 15th April 2019

AU – MIT BOT (Society driven) Donated to O manthurar Multispecialty Govt. Hospital, Chennai on 31st May 2020
## Extension Activity

### FDTPs Conducted

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Title</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Faculty Development Training Program on Unconventional Machining Processes, 4-11 December 2017</td>
<td>2017</td>
</tr>
<tr>
<td>2.</td>
<td>Faculty Development Program on “Dynamics of Machines” 8-25 June 2018</td>
<td>2018</td>
</tr>
</tbody>
</table>

### Conferences Conducted

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Title</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.</td>
<td>7th International and 28th All India Manufacturing Technology, design And Research Conference (AIMTDR 2018), 13-12-2018 to 15-12-2018 (Jointly organized by Mechanical, Production and Manufacturing Engineering)</td>
<td>2018</td>
</tr>
</tbody>
</table>

### Workshops Conducted

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Title</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.</td>
<td>One Day Workshop on 'Meteorology and Disaster Management', 30 March 2022.</td>
<td>2022</td>
</tr>
<tr>
<td>4.</td>
<td>One Day Workshop on “Incremental Forming”, on 18th March 2023.</td>
<td>2023</td>
</tr>
<tr>
<td>5.</td>
<td>One Day Workshop on “Friction Stir Welding”, on 24th February, 2023.</td>
<td>2023</td>
</tr>
<tr>
<td>6.</td>
<td>Two Day Workshop on “Advanced Unconventional Machining &amp; Fluid Power automation”, Sponsored by CSRC- in Commemoration of Dr.B.Mohan - 5 &amp; 6 April, 2023.</td>
<td>2023</td>
</tr>
<tr>
<td>7.</td>
<td>One Day Workshop on “Computational Fluid Dynamics”, on 22nd February, 2023.</td>
<td>2023</td>
</tr>
<tr>
<td>8.</td>
<td>Five days hands on training in “GAIT Analysis using BIOPAC System” sponsored by Genstech Marketing and Distribution PVT LTD &amp; TANII</td>
<td>2023</td>
</tr>
</tbody>
</table>
4. INFRASTRUCTURE AND LEARNING RESOURCES

**UG LABORATORIES**
- Material testing laboratory
- Fluid power systems laboratory
- Metallurgy laboratory
- Metrology laboratory
- Mechatronics laboratory
- CAD laboratory
- Engineering practices laboratory
- Metal cutting and CNC laboratory
- Thermal engineering laboratory
- Fluid mechanics and machinery laboratory
- Dynamics laboratory
- Welding & foundry laboratory

**PG LABORATORIES**
- Robotics & Automation Laboratory
- Metal Forming Laboratory
- Sensors and Data acquisition Laboratory
- Embedded and IOT Laboratory
- Industrial Automation Laboratory
- Embedded Systems Laboratory
- Green Practices Laboratory
- Fabrication Laboratory

**RESEARCH LABORATORIES**
- Nano Technology Laboratory (2)
- Polymer Processing Laboratory (5)
- UPE-Testing and Calibration Laboratory (1)
- UPE-Fabrication Assembly Laboratory (5)
- TANII Laboratory (7)

4.1.1 Facilities for Teaching Learning

- **Library Automation Software** – Rs. 58,999/-
- **Books** - 1500
- **Plagiarism Checking**
  - URKUND
  - TURNITIN

4.2.1

**PG Project Room**
- Research Scholar’s Room with 17 Computer, 2 WIFI Routers and Printer

**Lab utilization by other Departments**

<table>
<thead>
<tr>
<th>Classrooms</th>
<th>10</th>
</tr>
</thead>
<tbody>
<tr>
<td>Smart Classrooms</td>
<td>02</td>
</tr>
<tr>
<td>Seminar Hall</td>
<td>03</td>
</tr>
<tr>
<td>Laboratory</td>
<td>20</td>
</tr>
<tr>
<td>Research Lab</td>
<td>0</td>
</tr>
<tr>
<td>Computers</td>
<td>185</td>
</tr>
<tr>
<td>CCTV Camera</td>
<td>45</td>
</tr>
<tr>
<td>UPS Support</td>
<td>34</td>
</tr>
<tr>
<td>LCD Projector</td>
<td>13</td>
</tr>
<tr>
<td>Generator</td>
<td>02</td>
</tr>
<tr>
<td>RO Water plant (50L Capacity)</td>
<td>02</td>
</tr>
</tbody>
</table>

**Anna University – Subscribed**

<table>
<thead>
<tr>
<th></th>
<th>Taylor &amp; Francis</th>
<th>J-Gate</th>
<th>Emerald</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACM Digital Library</td>
<td>Oxboard University Press</td>
<td>Science Direct</td>
<td></td>
</tr>
<tr>
<td>American Society of Civil Engineers</td>
<td>American Society of Mechanical Engineers</td>
<td>Scopus</td>
<td></td>
</tr>
<tr>
<td>IEEE</td>
<td>Wiley Online Library</td>
<td>Springer</td>
<td></td>
</tr>
</tbody>
</table>

| Dept. Library Management System & Digitalization |
4. INFRASTRUCTURE AND LEARNING RESOURCES

4.1.1 Facilities for Teaching Learning

- SERVO MOTOR DRIVE AND CONTROLLER
  Year: 2020 ; Rs. 9 lakh

- HYBRID STEPPER MOTOR DRIVE AND CONTROLLER
  Year: 2020 ; Rs. 9 lakh

- i7 COMPUTERS
  Year: 2020
  Rs. 7.7 lakh

- HORIZONTAL MILLING MACHINE
  Year: 2020; Rs. 9.44 lakh

- PLC BASED CONVEYOR DISTRIBUTION AND SORTING STATION
  Year: 2020 ; Rs. 12 lakh

- 2 AXES AUTOMATED LINEAR STAGE
  Year: 2020; Rs. 6.5 lakh

- GRINDING MACHINE
  Year: 2020
  Rs. 7.9 lakh

- VERTICAL MILLING MACHINE
  Year: 2020 ; Rs. 9.65 lakh

Total Number of Equipment Purchased = 49
Total Amount Sanctioned = ₹ 2.95 Crore,
Total Amount Spent = ₹ 2.77 Crore

4.4.2 Production Department
New Building
Rs. 10,00,00,000/-
CAM Lab Rewiring
Rs. 2,50,000/-
Additional Flood lights
Rs. 1,37,501/-
Embedded and IOT Lab additional electrical points
Rs. 2,88,782/-
Welding Additional Electrical Connection
Rs. 5,00,008/-
Central Workshop Renovation
Rs. 3,00,00,000/-
4. INFRASTRUCTURE AND LEARNING RESOURCES

Industry Supported Laboratory – SIEMENS Centre of Excellence (546.84 Crore)

26 Courses - 1040 Students of the department are benefitted

https://drive.google.com/drive/folders/1WDt3_HdhhPV0kIDzigiDdR4fYndy_JE?usp=sharing
5. Student Support and Progression

### 5.3.2

**Student Council**

**Student Welfare**

- **CTDT Project Titles:** 26
  - [https://drive.google.com/file/d/12i6VyeFEj0nkQCLyL0r_GEIT3pCQKRO/view?usp=drive_link](https://drive.google.com/file/d/12i6VyeFEj0nkQCLyL0r_GEIT3pCQKRO/view?usp=drive_link)

**Max. Package:** 28 LPA

**TOLARAM**

Mr. S. Sivanathan

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#### Membership in National Professional Bodies

<table>
<thead>
<tr>
<th>Organization</th>
<th>Staff</th>
<th>Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>Indian Institution of Production Engineers</td>
<td>10</td>
<td>171</td>
</tr>
<tr>
<td>The Robotics Society (TRS)</td>
<td>06</td>
<td>29</td>
</tr>
</tbody>
</table>

---

#### No. of Students Scholarships Recieved

<table>
<thead>
<tr>
<th>Year</th>
<th>Community</th>
<th>Mugavari</th>
<th>AMITA</th>
</tr>
</thead>
<tbody>
<tr>
<td>2018-19</td>
<td>121</td>
<td>25</td>
<td>5</td>
</tr>
<tr>
<td>2019-20</td>
<td>200</td>
<td>12</td>
<td>10</td>
</tr>
<tr>
<td>2020-21</td>
<td>200</td>
<td>10</td>
<td>0</td>
</tr>
<tr>
<td>2021-22</td>
<td>140</td>
<td>0</td>
<td>5</td>
</tr>
<tr>
<td>2022-23</td>
<td>92</td>
<td>0</td>
<td>5</td>
</tr>
</tbody>
</table>

---

#### Student Council

- Hostel Committee - 11 Students
- Athenaeum - 02 Students
- MIT meteorology - 06 Students
- Tamil Mandram - 05 Students
- Rotract Club - 05 Students
- MITRA - 04 Students
5. Student Support and Progression

5.2.3.1 Student Progression

Foreign Student Exchange Programme

1. Mr. Lokesh P (2014507027)
   University of Rovira I Virgil - QS Rank 661

2. Mr. Santhosh Kumar C J (2014507050)
   University of Rovira I Virgil - QS Rank 661

3. Ms. S. Nimishaa (2019507034)
   Université Francois-Rabelais, DE Tours, France - QS Rank 663

4. Mr. S. Sivanathan (2019507045)
   Mitacs - Globalink Research Internship ($9000)
   University of Northern British Columbia - QS Rank 785

Student Support:
Student Participation Expenses Co-curricular Activities, Competition etc., - Rs.50,000 (Project Count – 32 (2022-23))
TRS Membership Reimbursement for Students (19 Students) – Rs.22,420 (2022 – 23)

5.2.1 State, National, International Level Examinations

<table>
<thead>
<tr>
<th>Exams</th>
<th>GATE</th>
<th>CAT</th>
<th>GRE</th>
<th>IELTS</th>
<th>TOFEL</th>
<th>Civil Service</th>
<th>TANCET</th>
</tr>
</thead>
<tbody>
<tr>
<td>2018-23</td>
<td>10</td>
<td>04</td>
<td>03</td>
<td>04</td>
<td>01</td>
<td>02 (2021-1) (2023-1)</td>
<td>05</td>
</tr>
</tbody>
</table>
5. Student Support and Progression

Higher education in Foreign Universities

1. Mr. Crispin Sujith (2015509066)
   - Mr. Sankesh S (2015509050)
   - Northeastern University
     - QS Rank 388

2. Mr. Raja Natrajan (2018509032)
   - Western University
     - QS Rank 114

3. Mr. Ramkumar Kannan
   - (2016509036)
   - University of Texas
     - QS Rank 72

4. Mr. Lakshmi Kumar
   - (2016509027)
   - Universitat Dortmund
     - QS Rank 851

5. Mr. Roshan Balaji Muthusamy
   - (2016509034)
   - Texas A&M University
     - QS Rank 164

Student Progression:
- UG to PG – 47 Nos.
- PG to PhD Students – 23 Nos.

AIC-AU Incubation Foundation-Approved Startup (2020)
Mr. Dinesh Arjun, B.E., Prodn
(2012-16 Batch) – CEO Raptee Energy

Student Higher Studies Details:
https://drive.google.com/drive/folders/10EftVHnSEzc1pLWf_DrAYJU-OM8IMdDL?usp=sharing

5.2.3.1 Student Progression

TAME Activity
22.09.22

TAPE Activity
06.10.22

Department Magazine

Parents Meeting
12.02.20

Meterology & Disaster Management Workshop
30.03.2022

Alumni Interaction

RTRA Workshop
24th May 2023

Alumni Meet 2020
**Student Achievements – Co-curricular Activities**

- SAEINDIA - Bicycle Design Competition July 2022 - 3rd Position
- SAE Reverse Engineering competition 3rd position during - March 2023
- 2nd Position - QUADSKI at VASHISHT'23-IITDM Kacheepuram.
- Engineering contraption competition conducted by Caterpillar - 3rd position - October 2022
- Participated in Aerohan 23 Competition - Qualified for 2nd phase

**Student Achievements – Extra-curricular Activities**

- Best Paper Certificate - Ms. Keerthana.S AMMA 2023 (AMRITA)
- Best Paper Presentation – Mr. Tamilselvan B (ICMCTT – 23)
6. Governance, Leadership and Management

6.1.2 Decentralization and Participative Management

- Teaching Staff
- Technical Staff
- Non-Technical Staff

- Committee
  - Department Consultative Committee
  - Purchase Committee
  - Maintenance Committee

- Academics & Research
  - PG Chief Superintendent
  - SSC Syllabus Sub Committee
  - Time Table Coordinator
  - Dept. R&D Proposal Coordinator
  - RESEARCH SCHOLARS
  - Research Forum

- Class Committee
  - PG Professor I/C
  - Faculty Advisor
  - UG/PG STUDENTS

- RESEARCH SCHOLARS

- PhD Coordinator

- Infrastructure
  - Laboratory in charge
  - Technical Staff
  - Classes
  - Library
  - Project Room
  - Testing & Consultancy
  - CSRC Coordinator

- Central Workshop
  - Professor I/C
  - General Foremen
  - Technical Staff

- Society/Professional Bodies
  - National
    - TAPE
    - TAME
  - Local
    - IIPE
    - TRS

- Quality Cell
  - IQAC Coordinator
  - NAAC Coordinator
  - NBA Coordinator

- E Governance
  - Academica Software for all Staff

- Feedback

- Governance, Leadership and Management

- TAPE
- TAME
- IIPE
- TRS
## Fund Utilization

### Year | Amount alloted (Lakh) | Amount spent (Lakh) | % of Utilization
--- | --- | --- | ---
2017-18 | 33.75 | 28.01 | 78.3
2018-19 | 55 | 39.68 | 72.1
2019-20 | 65.10 | 58.56 | 85.3
2020-21 | 56.45 | 49.03 | 86.8
2021-22 | 75 | 72.68 | 96.9
2022-23 | 89.75 | 88.42 | 98.5

### Remuneration Through Testing Charge-Rs.26,545

| Dr. Rajadurai | DEAN, MIT & HOD | 2015-2018 |
| Dr. Siddharthan | TNTB & ESC, CWC Prof.Incharge | 2018-Till date |
| Dr. J. Jancirani | Nodal Officer - SCOE | 2020-23 |
| Dr. G. Bhaskar | DCOE, Treasurer (Co.op Stores) | 2015-Till date |
| Dr. C. Nandakumar | Deputy Warden | 2012-18 & 2021-Till date |
| Dr. N. Srirangarajalu | NRI Counselor | 2017-Till date |
| Dr. P. Karthikeyan | Deputy Director (CAC), Deputy Director (CRA), Deputy coordinator (Makers Lab) | 2020-Till date |
| Dr. V. Mugendiran | Secretary (Co.op Stores) | 2015-Till date |
| Dr. G. Kumaresan | Programme Officer (NSS), Residential Counselor | 2013 - Till date | 2019 – Till date | 2015 - Till date |
7. Institutional Values and Best Practices

7.1.1 Facilities for Women

- Women's day Celebration
- Caterpillar Visit - 13
- 79 Girls out of 401 Students

Kalpana Chawla Women's Room

7.1.4 Rainwater Harvesting

7.1.5.2 Battery operated bike, Mobility inside campus

7.1.5.5 Tree cover and Drip irrigation system

Values, Rights, Duties and Responsibilities of Citizens

- 75th Independence Day Celebration
- International Yoga Day Celebration
- Universal Human Values Day (UHV)

Ramp for Physically Challenged

Fire Extinguisher – 40 Nos.
7. Institutional Values and Best Practices

7.2.1 Best Practices

**Digitalization of Student Request**

**STUDENT REQUEST PORTAL**
- Bonafide Certificate
- Scholarship
- Lab Usage Request
- On Duty Request

**EMAIL NOTIFICATION, APPROVAL BY FACULTY ADVISOR**

**STUDENT REQUEST PORTAL**

**APPROVAL BY HEAD OF THE DEPARTMENT NOMINEE**

**Research Forum Meeting**

**Phase VIII - Lectures 208**

**PRESENTER**
- RESEARCH SCHOLARS (30 Mins per Scholar)
  - FULL TIME (13 Scholars)
  - PART TIME (31 Scholars)

**MODERATORS**
- Two Teaching Faculty Members

**EVENT MOTTO**
1. Inculcate research interest among PG students
2. Awareness about ongoing research work and domains
3. Sharing of Knowledge about testing facility and methods among peer group

**AUDIENCE**
- All Research Scholars
- All Post Graduate Students
- Teaching Faculty Members

**Research Forum Schedule and attendance:**
https://mitindia.edu/en/journals-subscribed
ROADMAP FOR NEXT 5 YEARS

- Continuing Education Programme
- National & International Networking
- Funded Projects
- International Conferences/Workshops
- Patents
- E Content Development
- Technology Transfer
- Increasing Utilization Facilities

- MoU with Industry
- Research & Consultancy
- Industrial Projects
- Student Projects
- Skill development programme

- Association with Int. Professional Societies
- Employability/Entrepreneurship
- Skill Based Curriculum
- Lab Integrated Courses
- Foreign exchange programme
- Online Courses