HIGHLIGHTS OF ACADEMIC, RESEARCH, INNOVATION AND ENTERPRENEURIAL ECOSYSTEM @ MIT CAMPUS

Hearty welcome to

NBA EXPERT TEAM - CHAIRMAN & MEMBERS
GENESIS OF THE ANNA UNIVERSITY

- **4th September 1978**: Unitary type Technical University
- **2001**: Affiliating University Status

Four University Campuses

**CEG** - College of Engineering

**ACT** - Alagappa College of Technology

**MIT** - Madras Institute of Technology

**SAP** – School of Architecture & Planning

<table>
<thead>
<tr>
<th>YEAR</th>
<th>QS RANKING (Indian Institutions)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2024</td>
<td>10</td>
</tr>
</tbody>
</table>

**YEAR**  | **RANKING**
---|---
2024 | 427

**YEAR**  | **CATEGORY**  | **RANKING**
---|---|---
2023 | UNIVERSITY | 14
| ENGINEERING | 13
| RESEARCH | 13
| OVERALL | 18

**University Departments**: 35 (MIT = 9)

**Administrative Centres**: 25

**Research Centres**: 37 (MIT = 6)

**Affiliating Institutes**: 489
CEG Campus of Anna University is one of the oldest Technological Institutes established outside of Europe.

Institution of Eminence (IOE) status - Recommended by UGC Empowered Expert Committee.

University Grants Commission awarded "University with Potential for Excellence (UPE)" in Biomedical Engineering & Instrumentation.

**National Facilities:**

- Institute of Remote Sensing (Government of Tamil Nadu)
- Crystal Growth Centre (UGC)
- Educational Multimedia Research Centre (UGC)
- National Hub for Healthcare Instrumentation Development (DST)
- Atal Incubation Centre – AU Incubation Foundation (AIM – NITI Aayog)
- AU – NLCIL Hub for Energy, Environment and Sustainability (Neyveli Lignite Corporation)
- National Centre for Sustainable Coastal Management (Ministry of Environment, Forest and Climate Change)
- Tamil Nadu Unmanned Aerial Vehicle Corporation in partnership with CASR, MIT Campus
RESEARCH COLLABORATIONS @ NATIONAL LEVEL

91 National Institutions/Industries

- Inter University Accelerator Centre, National Health Systems Resources Centre, ICMR, IIT-Delhi
- C-DAC
- Pilani
- DAICT
- BARC, IIT-Bombay
- NIT-Warangal
- IIT-H, ICAR
- DRDO, ISRO
- MKU
- IGCAR
- NLC
- BHEL
- ISRO, ICFOSS
- IIT-Patna
- IIT-Guwahati
- IIT-Kharagpur
- ISI, VECC, DAE

Association of Indian Medical device Centre for Wind Energy Technology
CLRI
CVRDE
Dept. of Environment Directorate of Medical Education
Research Innovation Centre, DRDO,
IITM Research Park
Dept. of Nuclear Phy., U. Madras
IIT, Madras

Creating Wealth for Wellbeing

INDIAN COUNCIL OF MEDICAL RESEARCH
Serving the nation since 1911
**UNIVERSITY ACHIEVEMENTS [CEG, MIT, ACTECH, SAP]**

<table>
<thead>
<tr>
<th>Cycle</th>
<th>Year of Accreditation</th>
<th>Grade</th>
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</thead>
<tbody>
<tr>
<td>Cycle 1</td>
<td>2002</td>
<td>Five Star</td>
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<tr>
<td>Cycle 2</td>
<td>2014</td>
<td>A</td>
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<tr>
<td>Cycle 3</td>
<td>2023</td>
<td>A++</td>
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<table>
<thead>
<tr>
<th></th>
<th>2022</th>
<th>2023</th>
<th>2024</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>QS Global World Ranking</strong></td>
<td>801-1000</td>
<td>551-560</td>
<td>427</td>
</tr>
<tr>
<td><strong>Engineering &amp; Technology</strong></td>
<td>***</td>
<td>289</td>
<td>Awaiting</td>
</tr>
<tr>
<td><strong>Electrical &amp; Electronics Engineering</strong></td>
<td>301-350</td>
<td>251-300</td>
<td>Awaiting</td>
</tr>
<tr>
<td><strong>Mechanical Engineering, Aeronautical &amp; Manufacturing</strong></td>
<td>301-350</td>
<td>201-250</td>
<td>Awaiting</td>
</tr>
<tr>
<td><strong>Computer Science &amp; Information Systems Engineering</strong></td>
<td>401-450</td>
<td>351-400</td>
<td>Awaiting</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th></th>
<th>2021</th>
<th>2022</th>
<th>2023</th>
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</thead>
<tbody>
<tr>
<td><strong>Research</strong></td>
<td>32</td>
<td>21</td>
<td>13</td>
</tr>
<tr>
<td><strong>Engineering</strong></td>
<td>18</td>
<td>17</td>
<td>13</td>
</tr>
<tr>
<td><strong>University</strong></td>
<td>16</td>
<td>20</td>
<td>14</td>
</tr>
</tbody>
</table>

**Ranked 7 under SDG 6:** Clean Water & Sanitation THE – WUR Impact Rankings 2020

**Ranked 8 under SDG 7:** Affordable and Clean energy THE – Impact Rankings 2021

Clarivate India Research Citation Excellence Award (2021) for highest citations among the State Universities in India.
MIT - KEY MILESTONES

- MIT was established with distinct UG Programs (Automobile, Aeronautical, Electronics, Instrument Technology)
- Glider Aeroplane without engine was built and launched (Experiential Learning)
- Silver Jubilee celebrations of MIT - Smt. Indira Gandhi (PM)
- University Departments of Anna University
- AU-KBC Research Centre (PPP Model)
- Golden Jubilee Celebrations
- Diamond Jubilee - launched in collaboration with ISRO
- Centre for Aerospace Research
- ANUSAT Microsatellite
- Silver Jubilee celebrations of MIT - Smt. Indira Gandhi (PM)
- University Departments of Anna University
- AU-KBC Research Centre (PPP Model)
- Golden Jubilee Celebrations
- Diamond Jubilee - launched in collaboration with ISRO
- Centre for Aerospace Research
- ANUSAT Microsatellite
- CoE in IoT
- CoE in Automotive Technology
- Skill Development Centre (SDC = Rs. 546 Crore)
- CoE in Robotics & Automation
- Platinum Jubilee Celebrations
- 75 Crore Financial Support by Govt. of Tamil Nadu
- Total Land Area: 51.49 Acres
- MIT (Main Campus): 28.71 Acres
- MIT Annexe: 22.78 Acres
- Academic Buildings: 42,322 m²
- Hostel Buildings: 17251 m²
- Staff Quarters: 441 m²
- DGCA approved Remote Pilot Training Organization & Unmanned Aerial Vehicle Corporation (TN + CASR)
MIT BY NUMBERS

09 Departments
UG = 11/PG = 14

3036 Undergraduate Students On-Roll

256 Postgraduate Students On-Roll

281 PhD Scholars On-Roll

06 Research Centres

204/120 Faculty/Staff Members (On-Roll)

05 Books 2019 - 2023

~54 Crore R & D Grants (2019 - 2023)

588 Publications 2019 - 2023

06/08 Patents Granted/Published 2019 - 2023

11/1865 Hostels/Students 7 (Boys)/4 (Girls) Hostel

52 ICT enabled Classrooms

97550 Books RF ID - Automation

19 Sports Courts & Rock climbing facility

1508/07/52/1 Gbps 1:3 CSR/WiFi Trees/Access Points/Bandwidth

23 Student Clubs
### UG AND PG PROGRAMMES OFFERED @ MIT

<table>
<thead>
<tr>
<th>S.No</th>
<th>No. of UG Programmes (Full Time): 11</th>
<th>Programmes Starting Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>B.E. Aeronautical Engineering</td>
<td>1949</td>
</tr>
<tr>
<td>2</td>
<td>B.E. Automobile Engineering</td>
<td>1949</td>
</tr>
<tr>
<td>5</td>
<td>B.E. Production Engineering</td>
<td>1977</td>
</tr>
<tr>
<td>7</td>
<td>B.E. Computer Science &amp; Engineering</td>
<td>2001</td>
</tr>
<tr>
<td>8</td>
<td>B.Tech. Information Technology</td>
<td>2001</td>
</tr>
<tr>
<td>9</td>
<td>B.E. Mechanical Engineering</td>
<td>2015</td>
</tr>
<tr>
<td>10</td>
<td>B.Tech. Artificial Intelligence &amp; Data Science</td>
<td>2022</td>
</tr>
<tr>
<td>11</td>
<td>B.E. Robotics and Automation</td>
<td>2022</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>S.No</th>
<th>No. of PG Programmes (Full Time): 14</th>
<th>Programmes Starting Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>M.E. Aeronautical Engineering</td>
<td>1970</td>
</tr>
<tr>
<td>2</td>
<td>M.E. Communication &amp; Networking</td>
<td>1970</td>
</tr>
<tr>
<td>3</td>
<td>M.E. Automobile Engineering</td>
<td>1978</td>
</tr>
<tr>
<td>4</td>
<td>M.E. Instrumentation Engineering</td>
<td>1978</td>
</tr>
<tr>
<td>5</td>
<td>M.E. Avionics</td>
<td>1993</td>
</tr>
<tr>
<td>6</td>
<td>M.E. Manufacturing Engineering</td>
<td>1993</td>
</tr>
<tr>
<td>7</td>
<td>M.E. Mechatronics</td>
<td>1998</td>
</tr>
<tr>
<td>8</td>
<td>M.Sc. Applied Mathematics</td>
<td>2005</td>
</tr>
<tr>
<td>9</td>
<td>M.Tech. Information Technology</td>
<td>2007</td>
</tr>
<tr>
<td>10</td>
<td>M.E. Aerospace Technology</td>
<td>2009</td>
</tr>
<tr>
<td>11</td>
<td>M.Tech. Rubber Technology</td>
<td>2010</td>
</tr>
<tr>
<td>12</td>
<td>M.E. Computer Science &amp; Engineering</td>
<td>2010</td>
</tr>
<tr>
<td>13</td>
<td>M.E. VLSI and Embedded Systems</td>
<td>2015</td>
</tr>
<tr>
<td>14</td>
<td>M.E. Wireless Technologies</td>
<td>2015</td>
</tr>
</tbody>
</table>

**B.E in Electronics & Instrumentation Engineering (2nd Cycle):**
- Accredited for 6 Years (2023 – 2028)

**B.E in Automobile Engineering (2nd Cycle):**
- Accredited for 3 Years (2023 - 2025)

*All the eligible UG programmes were accredited more than two times.*
*All UG and PG programmes have been approved by AICTE.*
### FACULTY ACHIEVEMENTS [MIT]

**Faculty members served as Vice Chancellors of reputed State Universities**

- **Prof. V. Vaidehi (2020 - 2023)**
  VC, Mother Teresa University
  Parent Dept
  Dept. of Electronics Engg.

- **Prof. S. Thamarai Selvi (2019 - 2022)**
  VC, Thiruvalluvar University
  Parent Dept
  Dept. of Computer Technology

### Research Activities [2019 – 2023]

<table>
<thead>
<tr>
<th>Sponsored Projects &amp; Consultancy</th>
<th>Amount (Rs. In Crore)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sponsored Projects &amp; Consultancy</td>
<td>53.57</td>
</tr>
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</table>

### IRINS

<table>
<thead>
<tr>
<th>Branch</th>
<th>h index (Scopus)</th>
<th>Total No. of Citations (Scopus)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dept. of Aerospace Engg.</td>
<td>23</td>
<td>2343</td>
</tr>
<tr>
<td>Dept. of Automobile Engg.</td>
<td>26</td>
<td>3424</td>
</tr>
<tr>
<td>Dept. of Electronics Engg.</td>
<td>17</td>
<td>2414</td>
</tr>
<tr>
<td>Dept. of Instrumentation Engg.</td>
<td>24</td>
<td>2794</td>
</tr>
<tr>
<td>Dept. of Production Technology</td>
<td>28</td>
<td>3671</td>
</tr>
<tr>
<td>Dept. of Computer Technology</td>
<td>26</td>
<td>3535</td>
</tr>
<tr>
<td>Dept. of Information Technology</td>
<td>17</td>
<td>1262</td>
</tr>
<tr>
<td>Dept. of Rubber and Plastics</td>
<td>17</td>
<td>958</td>
</tr>
<tr>
<td>Technology</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dept. of Applied Science and</td>
<td>13</td>
<td>567</td>
</tr>
<tr>
<td>Humanities</td>
<td></td>
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</tr>
</tbody>
</table>

### Awards 2019 - 2023

- **05**

### Books Authored

- **05**

### Journals

- **588**

### Patents Granted/Published

- **06/08**

### Fellowships

- **07**

### GIAN

- **02**
<table>
<thead>
<tr>
<th>Bharat Ratna</th>
<th>Padma Bhushan</th>
<th>Dr. A.P.J. Abdul Kalam Award</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. A. P. J. Abdul Kalam (6th Batch)</td>
<td>Dr. Ram Narain Agarwal (6th Batch)</td>
<td>Dr. K Sivan (29th Batch)</td>
</tr>
<tr>
<td>Former, 11th President of India</td>
<td>Program Director, AGNII-DRDO</td>
<td>Indian Space Scientist, ISRO</td>
</tr>
<tr>
<td>Dr. K B Chandrasekhar (32nd Batch)</td>
<td>Mr. S. Rangarajan (6th Batch)</td>
<td>Dr. P M S Prasad (24th Batch)</td>
</tr>
<tr>
<td>CEO, Exodus Comm.</td>
<td>Author, Novelist and Screen Writer</td>
<td>Director, Reliance Industries</td>
</tr>
<tr>
<td>Dr. K B Chandrasekhar (32nd Batch)</td>
<td>Mr. S. Rangarajan (6th Batch)</td>
<td>Dr. P M S Prasad (24th Batch)</td>
</tr>
<tr>
<td>CEO, Exodus Comm.</td>
<td>Author, Novelist and Screen Writer</td>
<td>Director, Reliance Industries</td>
</tr>
<tr>
<td>Mr. Susi Ganesan (39th Batch)</td>
<td>Dr. P. Mannar Jawahar (24th Batch)</td>
<td>Mr. Dinesh Arjun (2014)</td>
</tr>
<tr>
<td>Indian Film Director</td>
<td>Former Vice-Chancellor, AU</td>
<td>CEO, Raptee Energy Inc.</td>
</tr>
<tr>
<td>Senior Software Engineer, Google</td>
<td>Co-Founder, Qoruz</td>
<td>Associate Prof., IIT Madras</td>
</tr>
<tr>
<td>No.</td>
<td>Program/Policy</td>
<td>Details</td>
</tr>
<tr>
<td>-----</td>
<td>----------------------------------------------------</td>
<td>-------------------------------------------------------------------------</td>
</tr>
<tr>
<td>49</td>
<td>Career Advancement Scheme</td>
<td></td>
</tr>
<tr>
<td>~54</td>
<td>Research Projects &amp; Consultancy Work</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Financial Support to Participate in International Conferences</td>
<td>Rs. 20.47 Lakh</td>
</tr>
<tr>
<td>19</td>
<td>Professional Development Fund – To become member in Professional Bodies</td>
<td></td>
</tr>
<tr>
<td>06</td>
<td>Erasmus Mundus Faculty Exchange Program</td>
<td></td>
</tr>
<tr>
<td>08</td>
<td>Intellectual Property Rights</td>
<td>(Published (08) + Granted (06)</td>
</tr>
<tr>
<td>14</td>
<td>Post-doctoral Research</td>
<td></td>
</tr>
<tr>
<td>05</td>
<td>Faculty Awards</td>
<td>(Innovation Award, Active Consultancy Award, Best Teacher Award)</td>
</tr>
<tr>
<td>08</td>
<td>Financial Support for Filing Patents</td>
<td>(75% of Patent Registration Fee will be borne by AU)</td>
</tr>
<tr>
<td>27</td>
<td>Partial Financial Support for Pursuing PhD</td>
<td>(50% reduction in Semester Fee)</td>
</tr>
<tr>
<td>162</td>
<td>Medical Insurance Policy</td>
<td>(Permanent Staff members)</td>
</tr>
<tr>
<td>07</td>
<td>Establishment of Endowment for Retired Faculty Members</td>
<td></td>
</tr>
</tbody>
</table>
STUDENT CENTRIC POLICIES & UTILIZATION

Scholarship Policy (2022 - 23)
1. First graduate scholarship (435) - Rs. 65 Lakh
2. 7.5% (101) - Rs. 43 Lakh
3. Central/State/Private/Alumni scholarship (1358) - Rs. 3.67 Crore

Anna Research Fellowship (2019 - 23)
Rs.31000/- p.m + 24% HRA

Entrepreneurship Development Cell Policy

Financial Support to Organize Cultural/Technical Events

PG Scholars Fellowship (2022 - 23)
Rs.65.52 Lakh

ON-campus Placement Policy (2022 – 23)
Average CTC/annum - Rs. 9 Lakh

Industry – Institute Interaction Policy (All UG On-Roll Students)

Internet Access Policy (UG & PG Students + Research Scholars + Staff Members)

1894

42

15 Lakh

61

768

3036

3897

Rs.4.75 Crore

Rs. 65 Lakh

Rs. 43 Lakh

Rs. 3.67 Crore

Rs.31000/- p.m + 24% HRA

Entrepreneurship Development Cell Policy

Financial Support to Organize Cultural/Technical Events

PG Scholars Fellowship (2022 - 23)

ON-campus Placement Policy (2022 – 23)

Industry – Institute Interaction Policy (All UG On-Roll Students)

Internet Access Policy (UG & PG Students + Research Scholars + Staff Members)
<table>
<thead>
<tr>
<th><strong>STRENGTH</strong></th>
<th><strong>WEAKNESS</strong></th>
<th><strong>OPPORTUNITIES</strong></th>
<th><strong>CHALLENGES</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Brand name (Universal) with highly qualified &amp; motivated faculty members.</td>
<td>✓ Modest Infrastructure (Big Auditorium, Data Centre).</td>
<td>✓ Improve collaborations in R &amp; D and consultancy through signed MoUs &amp; through Alumni.</td>
<td>✓ Competing with Central Institutes and Deemed to be Universities (Flexibility in implementation).</td>
</tr>
<tr>
<td>✓ Distinct UG Progs. (Aero, Auto, RPT, AI &amp; DS, R &amp;A) &amp; Interdisciplinary PG Progs. (Avionics, Mechatronics).</td>
<td>✓ Modest Sports facilities (Tennis, Swimming Pool etc.).</td>
<td>✓ Location advantage to further strengthen the interaction with industry (Chennai a hub for IT / Auto/ Aero).</td>
<td></td>
</tr>
</tbody>
</table>
# QUALITY ASSURANCE INITIATIVE & IMPACT

## INTERNAL QUALITY ASSURANCE CELL (IQAC)

### FUNCTIONS @ INSTITUTE & DEPARTMENT LEVELS

### INCHARGES @ INSTITUTE & DEPARTMENT COORDINATOR

## ROLES & RESPONSIBILITIES OF IQAC

- **Academic Audit**
- **Examination Audit (Internal and External)**
- **Feedback on Facilities**
- **Alumni Survey**
- **Employer Survey**
- **Graduate Exit Survey**
- **Student Feedback on Teaching**
- **National & International Ranking**

## ACCREDITATION STATUS

### NUMBER OF PROGRAMS ACCREDITATED

<table>
<thead>
<tr>
<th>Year</th>
<th>5/6 Years</th>
<th>3 Years</th>
</tr>
</thead>
<tbody>
<tr>
<td>1998</td>
<td>3</td>
<td>2</td>
</tr>
<tr>
<td>2008</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>2016</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>2023</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>

### ACCREDITATION

- **5/6 Years**
- **3 Years**

## 2023: THE NUMBER OF UG PROGRAMS APPLIED FOR ACCREDITATION IS 05

- B.E. Electronics & Communication Engineering
- B.E. Production Engineering
- B.Tech. Rubber & Plastics Technology
- B.Tech. Information Technology
- B.E. Computer Science & Engineering
QUALITY ASSURANCE INITIATIVE & IMPACT

FACULTY

Recruitment:
Ph.D. is mandatory for all cadres of Teaching Positions in Engineering.
Ph.D. with Post-doctoral research is mandatory for Teaching Positions in Science and Humanities.

Ph.D. Supervisor Recognition:
Professor: A minimum of five UGC-recognized publications.
Associate Professor/Assistant Professor: A minimum of two UGC-recognized publications.

IMPACT

Clarivate India Research Citation Excellence Award (2021) for the highest citations among the State Universities in India.
Excellence in Research – Katral Award (2021).
Improvement in NIRM [Research Category].

<table>
<thead>
<tr>
<th>YEAR</th>
<th>RANK</th>
<th>SCORE</th>
<th>QNR</th>
<th>QLR</th>
</tr>
</thead>
<tbody>
<tr>
<td>2022</td>
<td>21</td>
<td>52.85</td>
<td>51.03</td>
<td>46.62</td>
</tr>
<tr>
<td>2023</td>
<td>13</td>
<td>59.65</td>
<td>57.03</td>
<td>61.63</td>
</tr>
</tbody>
</table>

STUDENT INTAKE QUALITY

Improvement in Core and IT Product Placements.

2022 - 23

ACADEMICS

SKILL DEVELOPMENT

SIEMENS
CURRICULUM & TEACHING LEARNING – PROCESS INVOLVED IN CURRICULUM DESIGN

- Define Outcomes
- Design Curriculum
- Deliver the Instruction
- Document the Results
- Determine the Advancement

Sources

- NBA Graduate Attributes (OBE)
- AICTE Model Curriculum
- Institute Vision and Mission
- Previous Curriculum and Syllabus
- Stakeholders feedback
- Program Specific Professional Bodies

Members

- Experts from Industries
- Experts from Academia
- Alumni
- Students
- Faculty members

Faculty level

Board of studies

- Heads of Departments
- Experts from Industries
- Experts from Academia
- Alumni
- Chair person of faculties
- Faculty members

Institutional level

Academic Council

- Experts from Academia
- Experts from Industries
- Government Representatives
- Vice Chancellor/Registrar/Dean
- Chair persons of faculties

Program Curriculum

- Heads of Departments
- Experts from Industries
- Experts from Academia
- Alumni
- Chair person of faculties
- Faculty members

Members

Syllabus

- sub-committee/DCC
- Alumni
- Students
- Faculty members

Departmental level

- Experts from Industries
- Experts from Academia
- Alumni
- Chair person of faculties
- Faculty members

Members

- Experts from Academia
- Experts from Industries
- Government Representatives
- Vice Chancellor/Registrar/Dean
- Chair persons of faculties

Members

Sources

• Define Outcomes
• Design Curriculum
• Deliver the Instruction
• Document the Results
• Determine the Advancement

*Major revision once in four years
*Minor amendments every year

DCC – Department Consultative Committee
### SALIENT FEATURES OF FFCS 2019

- Wide Choice in Electives (Verticals)
- Employability Enhancement Courses
- Major/Minor Specialization /Honors
- Flexi curriculum – Options to add or drop courses
- Industry relevant curriculum

### CATEGORIZATION OF COURSES

- HUMANITIES, SOCIAL SCIENCES & MANAGEMENT COURSES (14)
- BASIC SCIENCE COURSES (26)
- ENGINEERING SCIENCES COURSES (20)
- PROFESSIONAL CORE COURSES (72)
- PROFESSIONAL ELECTIVE COURSES (18)
- OPEN ELECTIVE COURSES (6)
- EMPLOYABILITY ENHANCEMENT COURSES (15)

#### Major/Minor Specialization /Honors

<table>
<thead>
<tr>
<th>Course</th>
<th>R2019 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>B.E. Electronics and Communication Engineering</td>
<td>171</td>
</tr>
<tr>
<td>B.E. Production Engineering</td>
<td>170</td>
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<tr>
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<tr>
<td>B.Tech. Information Technology</td>
<td>170</td>
</tr>
<tr>
<td>B.E. Computer Science &amp; Engineering</td>
<td>185</td>
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</table>

**BE ECE – 171 credits - Regulation 2019**
ACADEMIC TIMELINE

ACADEMIC TIMELINE – ODD SEMESTER

Centre for Academic Courses

Head of Department

Faculty Members

Additional Controller of Examinations

NOV - DEC

SEMS – Secured Examination Management System

Student Centric Teaching & Learning Methods:
• Lectures
• Assignments
• Tutorials
• Guest Lectures
• Experiential Learning
• Industrial Visits
• Seminars
• Project Based Learning

Student Enrollment through SEMS portal & Preparation of Lesson Plan and Course Materials by Faculty Members

Release of Academic Schedule

June 3rd Week

July 1st Week

July 2nd Week

August 2nd Week

September 4th Week

October 21st Week

November 21st Week

No of Classrooms = 79
No of Laboratories = 121
**Experiential Learning** (Choice Based Credit System)
- Theory Integrated with Lab
- Practical exposure through Labs
- Mini-projects in Theory and Lab courses
- Guest lectures from renowned professionals
- Skill development through Academia – Industry partnership
- Case studies
- Industrial Visit

**Special Courses**
- Online courses (195)
- Value-added courses (21)

---

**Project Based Learning** (Naalaiya Thiran)
- Sponsored by Tamil Nadu Skill Development Corporation in association with ICT Academy, NASSCOM and IBM.

**Industrial Visit**
- Students must go for an *industrial visit every year*, starting from second year.

**Industrial/Practical Training**
- Students are **encouraged to apply for industrial/practical training** in reputed industries.

**Internship**
- During VII and VIII semesters – a **semester long internship** can be taken by the students.
- Optionally students can take internship for 2/4/6 weeks (1/2/3 credits).
- Students can drop a professional elective if he/she completes a 6-week internship.

**Creative, Innovative and Socially Relevant Project**
- Student is expected to work on problems relevant to Society.

---

**Internship**
- During VII and VIII semesters – a semester long internship can be taken by the students.
  - Optionally students can take internship for 2/4/6 weeks (1/2/3 credits).
  - Students can drop a professional elective if he/she completes a 6-week internship.

**Project work**
- VII/VIII semester project work kindles the research aptitude of the students and enhances their problem-solving ability.

**All Final Year Projects**
- VII/VIII semester project work kindles the research aptitude of the students and enhances their problem-solving ability.

---

**Curriculum & Teaching Learning Process**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
<th>Duration</th>
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<td>+256 (PG)</td>
<td>Practical exposure through Labs</td>
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<td>Mini-projects in Theory and Lab courses</td>
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<td>18</td>
<td>Guest lectures from renowned professionals</td>
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<td>58</td>
<td>Skill development through Academia – Industry partnership</td>
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EVALUATION PROCESS – OUTCOME BASED EDUCATION

Integration of Learning Outcomes in the Assessment and End Semester Examinations

R2019

Course Outcomes (COs) | Attainment Target
---|---

CO1  
CO2  
CO3  
CO4  
CO5  
CO6  

Mapping of PO with CO  
3 – High, 2 – Medium, 1 - Low

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QUESTION PAPER FORMAT – INTERNAL ASSESSMENT TEST

ANNA UNIVERSITY
DEPARTMENT NAME
ASSESSMENT TEST I / ASSESSMENT TEST II
DEGREE/BRANCH/SEMESTER
SUBJECT CODE/SUBJECT NAME (Regulation)

TIME: 90 Minutes  Date:  Max Marks: 50

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<th>CO</th>
<th>BL</th>
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21
EVALUATION PROCESS – OUTCOME BASED EDUCATION

Integration of Learning Outcomes in the Assessment and End Semester Examinations

QUESTION PAPER FORMAT – END SEMESTER EXAMINATION

Roll No. 

ANNA UNIVERSITY (UNIVERSITY DEPARTMENTS)
BE MECH THIRD SEMESTER END SEMESTER EXAMINATIONS – NOV/DEC 2022
Subject Code and Name
(Regulation 2019)

Time: 3hrs Max Marks: 100

CO 1
CO 2
CO 3
CO 4
CO 5

BL – Bloom’s Taxonomy Levels
(L1 - Remembering, L2 - Understanding, L3 - Applying, L4 - Analysing, L5 - Evaluating, L6 - Creating)

PART- A (10 x 2 = 20 Marks)
(Answer all Questions)

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PART- B (5 x 13 = 65 Marks)

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<td>15 (b)</td>
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PART- C (1 x 15 = 15 Marks) (Q.No. 15 is compulsory)

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Recommended Distribution of Marks:

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<th>Level of Questions</th>
<th>Lower Oder (L1 and L2)</th>
<th>Intermediate Order (L3 and L4)</th>
<th>Higher Oder (L5 and L6)</th>
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<tr>
<td>Recommended</td>
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<td>PG</td>
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<td>Distribution of Marks (%)</td>
<td>20 to 35</td>
<td>Minimum 40</td>
<td>15 to 25</td>
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<td>10 to 25</td>
<td>Minimum 50</td>
<td>15 to 25</td>
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### EVALUATION PROCESS – OUTCOME BASED EDUCATION

#### Checklist of Mark Distribution:

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<th>Marks / DL</th>
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#### Grading Mechanism:

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<td>A (Very Good)</td>
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<td>B+ (Good)</td>
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<td>B (Average)</td>
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<td>C (Satisfactory)</td>
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<td>WD (Withdrawal)</td>
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#### Classification of the Degree Awarded:

- **First Class with Distinction**: CGPA not less than 8.50
  - Cleared all subjects in first appearance within 5 years including 1 year break of study

- **First Class**: CGPA not less than 7.00
  - Cleared all subjects within 5 years including 1 year break of study

- **Second Class**: All other Students who qualify for the Award

#### Project Work:

- **Continuous Assessment**: 60 Marks
  - Review I (30 Marks)
  - Review II (30 Marks)

- **End Semester Examination**: 40 Marks
  - Report Evaluation (20 Marks)
  - Viva – Voce (20 Marks)

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<thead>
<tr>
<th>Project Co-ordinator</th>
<th>Member</th>
<th>Guide</th>
<th>Project Co-ordinator</th>
<th>Member</th>
<th>Guide</th>
<th>External Examiner</th>
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ATTAINMENT OF PROGRAM OUTCOMES/PROGRAM SPECIFIC OUTCOMES

PO / PSO Attainment

Direct Assessment (80%)

Through POs, PSO and COs – Articulation Matrix of all Courses

Indirect Assessment (20%)

Employer Survey (10%)

Graduate Exit Survey (60%)

Alumni Survey (30%)

Tools

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<tr>
<th>Direct Assessments</th>
<th>Indirect Assessments</th>
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<tr>
<td>Theory Internal Tests</td>
<td>Employer Survey</td>
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<tr>
<td>Theory Semester Exam</td>
<td>Alumni Survey</td>
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<tr>
<td>Laboratory Model Exams</td>
<td>Graduate Exit Survey</td>
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<td>Laboratory Semester Exams</td>
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<td>Projects</td>
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Frequency

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<th>Projects</th>
<th>Once in a</th>
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</table>

- Internal Quality Assurance Cell (IQAC) constantly monitors the OBE activities
- IQAC conducts OBE awareness programs to all faculty and staff members
- At the end of the Semester, the student feedback is obtained and shared with the concerned course instructor for improvement.
FACULTY CONTRIBUTIONS [2019 - 2023]

SPONSORED R&D PROJECTS AND CONSULTANCY

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<th>Year</th>
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AMOUNT IN CRORE

BOOK PUBLICATIONS

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JOURNAL PUBLICATIONS

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AMOUNT IN CRORE ~Rs. 54 Crore

PATENT DETAILS

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<tr>
<td>2023</td>
<td>2</td>
</tr>
</tbody>
</table>

06/08 Granted/Published

GRANTED | PUBLISHED

2019 | 2 | 1
2020 | 1 | 1
2021 | 1 | 1
2022 | 2 | 2
2023 | 2 | 1
FACULTY CONTRIBUTIONS – PRODUCT DEVELOPED - ANTIBIOMGRAMASCOPE

A batch of Semi-automated Antiibiogramscope

TOI, 10/4/19, P-6

Transdisciplinary Team

AU researchers develop robot to help healthcare staff

**CHENNAI:** A team of students and researchers of Anna University has designed and developed a robot to help health officials in treating COVID-19 patients in the hospital.

The special features of the robot – AU-MIT Bot – include automated delivery of food packets, water, and medicines. The machine can carry a payload of 40 kg and can be remote-controlled from a distance of about 300 metres.

T Thyagarajan, Dean-MIT (Project Coordinator) told *DT Next* on Saturday that unlike other robots, this machine features a three-in-one option. While the existing robots supply only food packets to the patients, the robot they designed not only has the option of automated delivery of food packets, water and medicines, but also has an inbuilt sanitiser that would aid in spraying disinfectant in the wards, said Thyagarajan.

The robot ensures the safety of healthcare workers during the rebuilding process, he said, noting, “In addition, patient’s condition can be monitored remotely using a Wi-Fi enabled camera.”

According to him, the sanitiser unit is capable of holding seven litres of disinfectant. “The disinfector can cover an area of about two metres,” he said adding that it can be controlled through a remote controller.

An obstacle avoidance mechanism has been incorporated in the robot and the range is tunable up to 30 cm, Thyagarajan said. The BOT covers a distance of about 35 metres in a minute, he added.

“After a successful demonstration, the robot was handed over to Dr R Narayanan Babu, Dean, Omandurar Government Medical College and Hospital in Chennai,” he said. Thyagarajan claimed that the robot would be immediately put to use at the government hospital, and added that more such machines would be supplied depending on the requirement.

**AU-MIT BOT**

Used in Omandurar Hospital, Chennai

Used to help the health workers by Delivering food items in COVID wards from a remote area

Remote sanitization

Dept. of Production Technology
Dept. of Electronics Engineering
Dept. of Automobile Engineering
Dept. of Instrumentation Engineering

Centre for Aerospace Research
### STUDENTS PERFORMANCE – ACADEMIC & PLACEMENT DETAILS

#### PASS PERCENTAGE (2018 - 2022)

<table>
<thead>
<tr>
<th></th>
<th>UG</th>
<th>PG</th>
</tr>
</thead>
<tbody>
<tr>
<td>2018-19</td>
<td>86</td>
<td>86.39</td>
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</table>

#### Department Pass Percentage (2022 - 2023)

<table>
<thead>
<tr>
<th>Department</th>
<th>Pass Percentage</th>
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<tbody>
<tr>
<td>B.E. ECE</td>
<td>93%</td>
</tr>
<tr>
<td>B.E. Prod. Engg.</td>
<td>88%</td>
</tr>
<tr>
<td>B.Tech. RPT</td>
<td>96%</td>
</tr>
<tr>
<td>B.Tech. IT</td>
<td>96%</td>
</tr>
<tr>
<td>B.E. CSE</td>
<td>96%</td>
</tr>
</tbody>
</table>
STUDENTS PERFORMANCE – ECOSYSTEM TO INNOVATE

Innovation Ecosystem

Research Centre – Unmanned Aerial Vehicle
Research Centre – Internet of Things
Research Centre – Robotics and Automation
Innovation Makers Lab
Entrepreneurship Development Cell

CTDT INNOVATIVE PROJECTS [2019 – 2023]

<table>
<thead>
<tr>
<th>No of Projects</th>
<th>No of Beneficiaries</th>
</tr>
</thead>
<tbody>
<tr>
<td>52</td>
<td>150</td>
</tr>
</tbody>
</table>

~12 Lakh

Hackathon 2023
Dept. of Information Technology
Winner

Hackathon 2023
Dept. of Computer Technology
Winner

Citi Campus Innovation Challenge
HACKATHON 2023
Winner

Winner – Rs. 2 lakh
Michelin Mobility Innovation Challenge
Dept. of Rubber and Plastics Technology

3rd Place
SAE Reverse Engineering Competition
Dept. of Production Technology

Winner
IIT Bombay Fossee Mapathon 2023
Dept. of Electronics Engg.

Winner

Rs. 12 Lakh

No of Projects: 52
No of Beneficiaries: 150

~12 Lakh
STUDENTS PERFORMANCE – SOLVING COMPLEX ENGINEERING PROBLEMS

UGC – UPE IN BIOMEDICAL INSTRUMENTATION

Dept. of Production Technology
Dept. Electronics Engineering
Dept. of Instrumentation Engg.

CHANAKYA FELLOWSHIP – IIT ROORKEE

Dept. of Information Technology

TANII – PROSTHETIC ARM & EXOSKELETON SYSTEMS
Dept. of Production Technology, Dept. Electronics Engineering

TAMILNADU STUDENT INNOVATORS (TNSI)

Prize
Rs. 1,00,000/-

Dept. of Production Technology
STUDENTS PERFORMANCE – PROFESSIONAL SOCIETIES/DEPT. ASSOCIATIONS

SOCIETY OF AUTOMOTIVE ENGINEERS INDIA

INTERNATIONAL SOCIETY OF AUTOMATION

IEEE STUDENT CHAPTER

Dept. of Production Tech.

Dept. of Computer Technology

The Association of Production Engineers

Electrofocus 2023

Electronics Engineers Association

Society of Plastics and Rubber Technologists

INTERNATIONAL SOCIETY OF AUTOMATION

IEEE STUDENT CHAPTER

Dept. of Production Tech.

Dept. of Computer Technology

The Association of Production Engineers

Electrofocus 2023

Electronics Engineers Association

Society of Plastics and Rubber Technologists
STUDENTS PERFORMANCES – ECOSYSTEM TO ENHANCE SOFT SKILLS

STUDENT CLUB ACTIVITIES

Number of Clubs

<table>
<thead>
<tr>
<th>Year</th>
<th>18-2017</th>
<th>20-2012</th>
<th>23</th>
<th>20</th>
</tr>
</thead>
</table>

Department Associations - 08
MIT Athenaeum
NSS – National Service Scheme
MIT MeT – MIT Meteorology Team
YRC – Youth Red Cross
NSO – National Sports Organization
Rotaract Club of MIT
MIT – Vibes, Raptors Club
MIT Black Crew
The Quiz Club of MIT
The MIT Quill, The Photo Society
MIT Tamil Mandram
PDA, Electoral Literacy Club
The Box Office
MIT Variety Team
Computer Society, IoT Club
Robotics Association of MIT
TED Club of MIT
AU Student Entrepreneurship Club
MIT Museum

EXTRA CURRICULAR ACTIVITIES

Ms. Preethi - 3rd Year ECE
Badminton - Runners
Long Jump
Hockey - Winners

2012-2017 2018-2022

Badminton - Runners

2018-2022
### STUDENTS PERFORMANCE - ACHIEVEMENTS

<table>
<thead>
<tr>
<th>NAME/DEPT.</th>
<th>GAME</th>
<th>YEAR/ORGANIZING INSTITUTE</th>
<th>ACHIEVEMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kirthana K I – B.E ECE</td>
<td>Wushu (W)</td>
<td>2023/Chandigarh University</td>
<td>Bronze Medal</td>
</tr>
<tr>
<td>Swetha K II – B.E ECE</td>
<td>Soft Tennis (W)</td>
<td>2023/Pt. Ravi Shankar Shukla Univ, Raipur</td>
<td>Bronze Medal</td>
</tr>
<tr>
<td>Leenarani S II – B.E CT</td>
<td>Soft Tennis (W)</td>
<td>2023/Pt. Ravi Shankar Shukla Univ, Raipur</td>
<td>Bronze Medal</td>
</tr>
<tr>
<td>Yoga Karthikeyan N I – B.E CSE</td>
<td>Wushu (M)</td>
<td>2023/Chandigarh University</td>
<td>1 Gold, 1 Silver and 1 Bronze Medal</td>
</tr>
<tr>
<td>Ebeen Rooban P II – B.Tech IT</td>
<td>Sepak Takraw (M)</td>
<td>2023/Manipur University</td>
<td>Bronze Medal</td>
</tr>
</tbody>
</table>

### EVENTS

- HACKATHON
- AUTO EXPO
- WORKSHOP
- VARIETY SHOW
STUDENTS PERFORMANCE – EXTENSION ACTIVITIES

President Award

NSS

Visit to Orphanage

Mass Cleaning Campaign

NSO

Blood Donation Camp

YRC
MAJOR RESEARCH FACILITIES

Research Centres – Thrust Areas

- Drone Technology (CASR)
- Information Sciences & Life Sciences (AUKBC)
- Next Generation Automobile Technology (CEAT)
- Internet of Things (CloT)
- Robotics and Automation (CRA)
- Value Added Courses – Industry Process 4.0 (SSDC)

CENTRE FOR AEROSPACE RESEARCH

UAV Propulsion Laboratory

- Rs. 20 Crore

UAV Integration Laboratory & Avionics Laboratory

CENTRE FOR EXCELLENCE IN AUTOMOBILE TECHNOLOGY

- Rs. 10 Crore

- Transient Dynamometer
  (Approx Rs. 200,00,00/-)
  (Order Placed)

- GDI Engine, Dynamometer and Open ECU Control
  (Approx Rs. 55,00,000/-)

- Emission Analyzer
  (Approx Rs. 145,00,000/-)
MAJOR RESEARCH FACILITIES

AUKBC RESEARCH CENTRE

Rs. 55 Crore
(2001 - 2022)

Tangible Outcomes

- International publications: 461 (Journals- 276, Conferences- 185)
- No. of Ph.D. Graduated - 59
- No. of M.S. (By Research) Graduated - 40
- Patents granted - 7, including 5 US patents
- Technology Transferred - 10

CENTRE FOR INTERNET OF THINGS

Rs. 2.27 Crore

- Optoelectronics Lab
- Soil Processing Lab
- Security and Data Analytics Lab
- Embedded and IoT Lab

CENTRE FOR ROBOTICS AND AUTOMATION

Rs. 10 Crore

- Indrual Robot (TATA - T1 RAMBO)
- LIGHT WEIGHT ROBOT (KUNOVA)
- ASG IRBC WELDING ROBOT
- MT SURUKA ROBOT (MA STEER ROBOT)

UPE - LIMITED MANUFACTURING FACILITY

Rs. 6.40 Crore

Dept. of Production Technology

- 5 Axis CNC Machine Centre
  USD 72,000
  (Approx. INR 60,00,000/-)
- Power Press Brake
  Rs. 34,99,965/-

DEPT – WISE GRANTS RECEIVED FROM
DST-FIST/UGC-SAP/MHRD/RUSA

Amount in Lakh

- 171
- 159
- 165
- 42
- 94
- 58
- 133
- 53
- 100

- DRPT
- DoEE
- DINS
- DoCT
- DAME
- DIT
- DPT
- DASE
- Health Centre

Rs. 55 Crore
(2001 - 2022)

- Optoelectronics Lab
- Soil Processing Lab
- Security and Data Analytics Lab
- Embedded and IoT Lab

Rs. 2.27 Crore

- Indrual Robot (TATA - T1 RAMBO)
- LIGHT WEIGHT ROBOT (KUNOVA)
- ASG IRBC WELDING ROBOT
- MT SURUKA ROBOT (MA STEER ROBOT)

Rs. 6.40 Crore

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Rs. 10 Crore

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- DoEE
- DINS
- DoCT
- DAME
- DIT
- DPT
- DASE
- Health Centre

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DEPT – WISEGRANTS RECEIVED FROM
DST-FIST/UGC-SAP/MHRD/RUSA

Amount in Lakh

- 171
- 159
- 165
- 42
- 94
- 58
- 133
- 53
- 100

- DRPT
- DoEE
- DINS
- DoCT
- DAME
- DIT
- DPT
- DASE
- Health Centre
FACILITIES @ SIEMENS SKILL DEVELOPMENT CENTRE

- **Skill Development Centre** – Year of Establishment 2018 - through PPP mode in Collaboration with M/s. Siemens and M/s. Designtech Limited (Rs. 492 Crore) and Tamil Nadu Skill Development Corporation Limited (Rs. 54.68 Crore).

- Number of Beneficiaries = **5171** (2020 – 2023)

Rs. 546.84 Crore
### FACILITIES – INFRASTRUCTURE

<table>
<thead>
<tr>
<th>S.NO</th>
<th>INFRASTRUCTURE</th>
<th>NUMBERS</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>CLASS ROOMS</td>
<td>79</td>
</tr>
<tr>
<td>2</td>
<td>LABORATORIES</td>
<td>121</td>
</tr>
<tr>
<td>3</td>
<td>AUDITORIUM</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>DRAWING HALL</td>
<td>2</td>
</tr>
<tr>
<td>5</td>
<td>SEMINAR HALL</td>
<td>10</td>
</tr>
<tr>
<td>6</td>
<td>EXAMINATION HALL</td>
<td>2</td>
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</table>

<table>
<thead>
<tr>
<th>S.NO</th>
<th>LIBRARY RESOURCES</th>
<th>NUMBERS</th>
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<tbody>
<tr>
<td>1</td>
<td>Print Books</td>
<td>97550</td>
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<tr>
<td>2</td>
<td>Book Bank Books</td>
<td>9456</td>
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<tr>
<td>3</td>
<td>Back volumes</td>
<td>12781</td>
</tr>
<tr>
<td>4</td>
<td>Magazines and News Papers</td>
<td>20</td>
</tr>
<tr>
<td>5</td>
<td>PhD Thesis</td>
<td>14260</td>
</tr>
<tr>
<td>6</td>
<td>E-Books</td>
<td>2500</td>
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<tr>
<td>7</td>
<td>E-Journals/ Databases</td>
<td>32000+</td>
</tr>
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</table>

### SERVICES

- Circulation Services
- RFID Based Library Automation
- Automated Self-Check out services
- Online Public Access Catalogue and Internet Services
- Digital Knowledge Services
- Remote Access Services (Mobil-APP)
- Reference Services
- Online access to Old Question papers
- New Arrival Service and Book Bank Services
GOVERNANCE, LEADERSHIP AND MANAGEMENT

Governing Bodies

- Anna University Syndicate
  - Academic Council
  - Finance Committee
  - Executive Committee (for Autonomous Centres)
    - Standing Committee
    - Board of Studies
    - Syllabus Sub Committee

- Vice Chancellor
- Registrar
- Departments (35)
- Autonomous Administrative Centres (25)
- Autonomous Research Centres (37)

Committees

- Grievance Redressal committee
- Prevention of Sexual Harassment (POSH)
- Anti-ragging committee
- Strategic Planning committee
- Syllabus sub-committee
- E-governance committee
- Central Purchase committee
- Department level Purchase committee

Decentralized Governance

DCC – Department Consultative Committee
MCC – Multiple Course Committee

Financial Audit
FINANCIAL RESOURCES - BUDGET UTILIZATION

EQUIPMENT/COMPUTER/TEACHING AIDS/FURNITURE

<table>
<thead>
<tr>
<th>Year</th>
<th>Amount in Crore</th>
</tr>
</thead>
<tbody>
<tr>
<td>2012-2017</td>
<td>2.43</td>
</tr>
<tr>
<td>2018-2022</td>
<td>11.16</td>
</tr>
</tbody>
</table>

AMOUNT IN CRORE

OPERATIONAL EXPENDITURE (MAINTAINENCE/CONTINGENCY/CONSUMABLES)

<table>
<thead>
<tr>
<th>Year</th>
<th>Amount in Crore</th>
</tr>
</thead>
<tbody>
<tr>
<td>2012-2017</td>
<td>2.03</td>
</tr>
<tr>
<td>2018-2022</td>
<td>3.84</td>
</tr>
</tbody>
</table>

NEW BUILDINGS/RENOVATION

<table>
<thead>
<tr>
<th>Year</th>
<th>Amount in Crore</th>
</tr>
</thead>
<tbody>
<tr>
<td>2012-2016</td>
<td>34.98</td>
</tr>
<tr>
<td>2017-2022</td>
<td>51.53</td>
</tr>
</tbody>
</table>

- Research Centres
- Renovation of Examination Hall
- Sewage Treatment Plant
- Hostel Blocks
- New Academic Blocks
- Additional Building for Library

BUDGET2023 ALLOCATED
Equipment and Accessories for ICT-Enabled Classroom
Rs. 1 Crore
### FINANCIAL RESOURCES - BUDGET UTILIZATION

<table>
<thead>
<tr>
<th>Infrastructure Built-Up</th>
<th>2022-23</th>
<th>2021-22</th>
<th>2020-21</th>
<th>2019-20</th>
</tr>
</thead>
<tbody>
<tr>
<td>RE</td>
<td>ACTUALS</td>
<td>RE</td>
<td>ACTUALS</td>
<td>RE</td>
</tr>
<tr>
<td>1</td>
<td>6712</td>
<td>3897</td>
<td>5362</td>
<td>2620</td>
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<tr>
<td>2 Library</td>
<td>4108</td>
<td>3978</td>
<td>2965</td>
<td>2588</td>
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<tr>
<td>3 Laboratory equipment</td>
<td>23184</td>
<td>14020</td>
<td>27686</td>
<td>15351</td>
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<tr>
<td>4 Laboratory consumables</td>
<td>2788</td>
<td>2404</td>
<td>2985</td>
<td>2714</td>
</tr>
<tr>
<td>5 Maintenance and spares</td>
<td>8670</td>
<td>6418</td>
<td>8161</td>
<td>6014</td>
</tr>
<tr>
<td>6 Training and Travel</td>
<td>1402</td>
<td>1182</td>
<td>3864</td>
<td>1879</td>
</tr>
<tr>
<td>7 Miscellaneous expenses</td>
<td>7042</td>
<td>5299</td>
<td>7140</td>
<td>5163</td>
</tr>
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<td>8 Others, specify</td>
<td>4280</td>
<td>3281</td>
<td>2800</td>
<td>1324</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>58186</strong></td>
<td><strong>40479</strong></td>
<td><strong>60963</strong></td>
<td><strong>37653</strong></td>
</tr>
</tbody>
</table>

% of Utilization: 70, 62, 80, 70
VISION & MISSION OF ANNA UNIVERSITY

VISION

To be a world-class institution by producing professionals with high technical knowledge, professional skills and ethical values and remain a preferred partner to the industry and community for their economic and social development through excellence in teaching, research and consultancy. Anna University shall be recognized as a point of reference, a catalyst, a facilitator, a trend setter and a leader in technical education.

MISSION

Anna University shall contribute to the educational, economic and social development by,

• producing students who are intellectually and technically equipped with well defined knowledge, skills and ethics who are creative thinkers, inspiring leaders and contributing citizens.
• introducing high quality academic and research programmes and providing extension services in cutting edge technologies.
• ensuring a supportive campus climate with dynamic leadership and development opportunities to meet the needs of the students, faculty and staff.
• **enhancing academic productivity** through induction of quality faculty, accelerated graduation, credit banking, augmented continuing education opportunities and adoption of current technology.

• **sharing the intellectual resources and the infrastructural facilities** among the academia from other institutions and among the industrial society, funding agencies and government.

• **enhancing the collaborative partnership between Industry and Institute** for commercializing and transferring the latest technological know-how towards societal development.

• **setting up a Global University Network Campus** that embodies the ideals of an open, democratic and global society catering to the needs of the global community and satisfying cultural, ethnic and racial diversity.

• **expanding global participation spread across continents** with the aid of interactive satellite-based education and the usage of digital library.

• **enriching the national and international character** of the University.

• **ensuring efficient administrative coordination** and effective decision making through necessary reforms and by strategically allocating resources.

• **benchmarking against technologically sound global leaders** with a view towards continuous improvement.
### WAY FORWARD

<table>
<thead>
<tr>
<th>BIOMEDICAL INSTRUMENTATION</th>
<th>DATA ANALYTICS AND ARTIFICIAL INTELLIGENCE</th>
<th>ELECTRIC VEHICLE</th>
<th>INDUSTRIAL IoT &amp; INDUSTRY PROCESS 4.0</th>
<th>NEXT GENERATION DRONES</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Research Parameters</strong></td>
<td><strong>2020-2023</strong></td>
<td><strong>2023 - 2026</strong></td>
<td><strong>2020-2023</strong></td>
<td><strong>2023 - 2026</strong></td>
</tr>
<tr>
<td>Number of Scopus Indexed Publications</td>
<td>588</td>
<td>1000</td>
<td>08</td>
<td>20</td>
</tr>
<tr>
<td>Number of Patents (Granted)</td>
<td>06</td>
<td>15</td>
<td>25</td>
<td>40</td>
</tr>
<tr>
<td>Number of Technology Transfer</td>
<td>02</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Grants from extramural R&amp;D and Consultancy Projects (in Crore of Rs.)</td>
<td>54</td>
<td>100</td>
<td>102</td>
<td>150</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>11/14</td>
<td>15/18</td>
</tr>
</tbody>
</table>
WAY FORWARD

ACADEMIA – INDUSTRY COLLABORATED CLASSROOMS

Teacher centered classroom

Student centered classroom

Learning by Doing

moving towards

Teacher

Industry Practitioner

Teacher-led Learning (in class or virtually)

Digital Learning (self-guided or assigned)

Teacher & Industry Experts - led Learning

Blended learning

Digital Learning (self-guided or assigned)
THANK YOU EXPERT TEAM MEMBERS