RANE POLYTECHNIC TECHNICAL CAMPUS

No 82, Sethurappatti Village, Fatima Nagar Post, Tiruchirappalli – 620012

(Approved by AICTE, Affiliated to DOTE and DME Department accredited by NBA)

Mandatory Disclosure

1	**Name of the Institution**	Rane Polytechnic Technical Campus
2	**Name and address of the Trust/ Society/ Company and theTrustees**	Rane Foundation "Maithri" 132 Cathedral Road Chennai 600 086
3	**Name and Address of the Vice Chancellor/ Principal/Director**	Dr. R. Joshua Arul Kumar, 82, Sethurapatti Village, Fatima Nagar Post, Srirangam Taluk, Trichy-620012. 8220052623 r.joshuaarulkumar@ranepolytechnic.edu.in
4	**Name of the affiliating University**	Directorate of Technical Education, Tamil Nadu
5	**Governance**	
	Members of the Governing Council:	• L Lakshman, Managing Trustee, Rane Foundation & Chairman Emeritus, Rane Holdings Limited • L Ganesh, Trustee, Rane Foundation & Chairman, Rane Group • Harish Lakshman, Vice Chairman, RANE Group. • R Venkatanarayanan, President - Corporate Services, Rane Group • Dr V Kovaichelvan, Director, IQL, TVS Motor Company • Dr. AK Bakthavatsalam, Professor & Head , Dept. of Training & Placement, NIT Trichy • Dr. S Sundar, Director, Gnanam School of Business • Mr. K. Srinivasan, Chancellor, Shiv Nadar University • Dr. R. Joshua Arul Kumar, Principal, Rane Polytechnic & Member Secretary of GC
	Members of Academic Advisory Body	• Lakshmi Narasimhan , GM- HRD, Brakes India Ltd • Dhayanithi - MM Forging,Trichy. • Jagadesh Prasad, Manager HR, RBL • Senthil Pandian, REVL,Trichy. • M.Saravanan, Plant Head, ITC, Trichy • S. Ramanathan, DGM – Operations, RBL • R. Shivabalaji, Senior HRM, Rane – OSD

		Other Members: • B. Rajalakshmi, Head – Educational Initiatives, Rane Foundation • R. Joshua Arul Kumar, Principal, Rane Polytechnic • R. Ranjit Kumar, HoD – DME, Rane Polytechnic • M. Syed Meeran, HoD – DMTE, Rane Polytechnic
	Frequently of the Board Meeting and Academic Advisory Body	Once in a Semester
	Organizational chart and processes	Ref. Annexure I
	Grievance Redressal mechanism for Faculty staff and students **Staff & Student Grievance Redressal committee Members:**	**Staff:** • M.Kannan , Sr.Lecturer-Chemistry - Chairman • T.saravanan, Lecturer – Mechanical – Committee Members • S.Karpaga Devi, Sr.Secretary- Office - Committee Members • S.Lakshmi, Lab Asst.Mechatronics - Committee Members **Students:** • D.Micheal Francis, Sr.Lecturer-Maths - Chairman • M.Syed Meeran, HOD-Mechatronics - Committee Members • P.Dineshkumar, Sr.Lecturer-Mechanical - Committee Members • G.Senthur Balaji, Sr.Lecturer-Mechatronics - Committee Members • S.Daniel, Tech.Asst., Mechanical – Committee Members
	Establishment of Anti Ragging Committee **The Anti Ragging Committee details are available in the link:**	http://www.ranepolytechnic.edu.in/studentragging.html
	Establishment of Grievance Redressal Committee in the Institution and Appointment of OMBUDSMAN by the University **Grievance Redressal** **Ombudsman**	D.Micheal Francis, Sr.Lecturer – Maths Dr.R.Joshua Arul Kumar, Principal

	Establishment of Internal Complaint Committee (ICC)	• B.Rajalakshmi / b.rajalakshmi@ranegroup.com • P.V.Seethalakshmi / pv.seethalakshmi@ranegroup.com • K.Ajitha / k.ajitha@ranepolytechnic.edu.in • P.Dinesh Kumar / p.dineshkumar@ranepolytechnic.edu.in • S.karpagadevi / s.karpagadevi@ranepolytechnic.edu.in • A.Mani / susmithaathi@gmail.com • S.Thayanithi / thayatozic@gmail.com • B,Bala Gopal Babu / balgob5@gmail.com • C.Praveen / praveen24071980@gmail.com
	Establishment of Committee for SC/ST	• M.Kannan , Sr.Lecturer - Chemistry • P.Arockia Samy, Sr.Lecturer - Mechanical • S.Karpaga Devi, Sr.Secretary - Admin • K.Mohana, Technical Asst. - Mechatronics
	Internal Quality Assurance Cell	• B.Rajalakshmi , Dean-IQAC • Dr. R. Joshua Arul Kumar, Principal • R.Ranjitkumar, HOD- Mechanical • M. Syed Meeran, HOD – Mechatronics • J.Elangovan, Asst.Professor & Head – Basic Engg. • V.Abishanth - DME, 2nd Year • S.Antony - DME, 2nd Year • C.Aashishwaran – DMTE, 2nd Year • I.Sadhurahavan – DMTE, 2nd Year
6.	**Programmes**	
	Name of Programmes approved by AICTE	• Diploma In Mechanical Engineering • Diploma In Mechatronics Engineering
	Name of Programmes Accredited by NBA Programmes Accredited Applied for Accreditation – Applied but visit not happened	Diploma in Mechanical Engineering/2016-22 Diploma in Mechatronics Engineering

	For each Programme the following details are to be given(Preferably in Tabular form):	No. of seats	Duration	Fee (as approved by the state govt)	Placement Facilities	Campus placement in last three years with minimum salary ,maximum salary and average salary		
						2022-23	2021-22	2020-21
	Diploma In Mechanical Engineering	180	3	35,000	100%	1.50LPA 3.3.LPA 2.10LPA	1.68LPA 2.70LPA 2.10LPA	1.20LPA 3.84LPA 1.80LPA
	Diploma In Mechatronics Engineering	60	3	35,000	100%	1.50LPA 3.3.LPA 2.10LPA	1.68LPA 2.70LPA 2.10LPA	1.20LPA 2.40LPA 1.80LPA

7. Faculty

	Permanent Faculty	
	Principal	R. Joshua Arul Kumar
	Mechanical Engineering	1. R. Ranjith Kumar, Asst Prof & HOD – Mechanical
		2. S. Vinoth Kumar, Sr.Lecturer
		3. P. Arockia samy, Sr.Lecturer
		4. P. Dinesh kumar, Sr.Lecturer
		5. S.Arul Suresh, Lecturer
		6. M. Arumugam, Lecturer
		7. C. Prasanth, Lecturer
		8. S.Vadivel Murugan, Lecturer
		9. R.Hariharan, Lecturer
		10. R. Thiruppathi, Lecturer
		11. T. Saravanan, Lecturer
	Mechatronics	12. M.Syed Meeran, HOD, Mechatronics
		13. G. Kathiravan, Asst.Prof
		14. G. Senthur Balaji, Sr. Lecturer
		15. Y.Malkiya Manohar Singh, Lecturer
		16. R. Ravi Shankar, Lecturer
		17. G. Selvi, Lecturer
	Basic Engineering	18. J. Elangovan, HOD-Basic Engineering and Asst.Prof (Maths)
		19. D.Michael Francis, Sr.Lecturer – Maths
		20. P.Arun,Sr.Lecturer – Physics
		21. M.Kannan, Sr.Lecturer-Chemistry
		22. S.Charles Jebabalan, Sr.Lecturer English
		23. S.Nataraj, Sr.Lecturer – Physics
		24. K. Ajitha, Lecturer-Mathematics
		25. P.Jemima Christy Berlin, Lecturer – English

Profile of Principal

Name	**R. Joshua Arul Kumar**		
Date of Birth	15.08.1978		
Unique ID	8567 7629 7752		
Education Qualification	M.Tech., Ph.D		
Work Experience			
Teaching	20 Years		
Research	Nil		
Industry	Nil		
Others	Nil		
Area of Specialization	Deep Learning, Embedded Systems, Robotics & Neural networks		
Courses taught at Diploma/ Post Diploma/ Under Graduate/ Post Graduate/ Post Graduate Diploma Level	ASIC Design, Embedded System, MC based system Design, Neural networks		
Research guidance(Number of Students)			
No. of papers published in National/ International Journals/ Conferences		International	National
	Journals	3	--
	Conferences	10	2
	Book Chapter	1	--
Master (Completed/Ongoing)	Completed		
Ph.D. (Completed/Ongoing)	Completed		
Projects Carried out	Nil		
Patents (Filed & Granted)	Nil		
Technology Transfer	Nil		
Research Publications (No.of papers published in National/International Journals/Conferences)	Nil		
No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	Nil		

9. Fee

a. Details of Fee, as approved by State Fee Committee, for the Institution

Name	Fee (as approved by the state govt)
Diploma In Mechanical Engineering	35,000 (per annum)
Diploma In Mechatronics Engineering	35,000 (per annum)

b. Time schedule for payment of Fee for the entire Programme

Name	1st Semester – 6th semester
Diploma In Mechanical Engineering	17,500 (per semester)
Diploma In Mechatronics Engineering	17,500 (per semester)

c. No. of Fee waivers granted with amount and name of students

Type of waivers	Name of the student	Granted with amount
Merit Scholarship (2022-23)	Sanjay Benadick B	5000
	Guna C	5000
	Sarvesh T	5000
	Savitha R	5000
80% and above marks in SSLC & HSC (2022-23)	Hariharan K	Rs.5000
Girls students in first semester (2022-23)	-	-

d. Criteria for Fee waivers/scholarship -

Fee waivers:

Criteria	Fee Concession
80% and above marks in SSLC & HSC	5000
Girls students in first semester	50% fee concession

Scholarship:

Income criteria: Less than 2 lakhs per annum	Adhidravidar (SC, ST&SCC community)
Criteria: Less than 2 lakhs per annum More than 50% marks	Post Metric (Muslim, Christian)

10. Admission

a. Number of seats sanctioned with the year of approval

Course Name	No of seats sanctioned (2022-23)
DME	180
DMTE	60

b. Number of Students admitted under various categories each year in the last three years

Course	2022-23	2021-22	2020-21
DME	54	98	109
DMTE	41	52	45

11. Admission Procedure

a. Candidates seeking admission to the RPTC should get prescribed application from the Principal, RPTC by paying Rs.100/- in the form of Cash.

b. Completed application form should reach the Principal, RPTC within 15 days from the date of publication of Board Examination results.

Year of Diploma	Eligibility criteria
First year (Regular)	Pass in SSLC
Second year (Lateral entry)	Pass in HSC with: Passed 10+2 examination with Physics/ Mathematics / Chemistry/ Computer Science/Electronics/Information Technology/ Biology/Informatics Practices/ Biotechnology/ Technical Vocational subject/ Agriculture/ Engineering Graphics/ Business Studies/Entrepreneurship (Any of the three).

12. Information of Infrastructure and Other Resources

Sl No	Details of Infrastructure/Resources	Area	Numbers available
1	Class rooms	74 Sqm	12
2	Tutorial Rooms	42 Sqm	03
3	Laboratories	90 sqm	14
4	Drawing Halls	174 sqm	1
5	Computer centres	150 sqm	1
6	Barrier Free Built Environment for disabled and elderly persons	Available	
7	Occupancy certificate	Available	
8	Fire and Safety Certificate	Available	
9	Hostel Facilities	Only day scholar	

- **Library**

Number of Library books	3625
Volume / Titles	3625 / 650
Journals available(Programme-wise)	DME - 8 , DMTE - 4
List of online National/ ~~International~~ Journals subscribed	Delnet Membership
E- Library facilities **Volume** **Titles**	 1000 500
Area	350 sqm
National Digital Library(NDL) subscription details	Available

- **Laboratory and Workshop**
  - List of Major Instruments / Equipment/Facilities in each Laboratory/Workshop

Laboratory / Workshop	Major Equipment's
Computer Lab	1. Desktop Computer 2. Laptop 3. Printer 4. Manageable Switch Cisco 5. LCD Projector 6. Sonic wall Soho 7. Server 8. UPS 9. CCTV Camera 10. DVR 11. Pace Finger Print Reader
Basic Engineering:	
Chemistry Lab	1. Chemical Balance 2. pH Meter 3. TDS – Conductivity meter 4. Electronic weighing machine 5. Kipps Apparatus
Physics	1. Micrometer (Screw Gauge 2. Vernier Calipers 3. Sonometer 4. Deflection Magnetometer 5. Travelling Microscope 6. Solar cell Kit 7. Joule's Calorimeter 8. Copper Voltameter 9. P-N Junction Diode 10. Spectrometer 11.Logic Gates 12.Electronic Balance

English	1. Projector 2. Computers 3. DVD player 4.
Mechanical Engineering:	
Computer Integrated Manufacturing Lab	1. CNC Lathe 2. CNC Milling
Special Machines Lab	1. Vertical Milling Machine 2. Cylindrical grinding machine 3. Surface grinding machine 4. Slotting machine 5. Tool and cutter grinding machine
Thermal Engineering Lab	1. Open cup apparatus 2. Close cup apparatus 3. Redwood viscometer 4. Saybolt viscometer 5. Refrigeration cycle test rig 6. Air compressor test rig
Automobile Engineering Lab	1. Mhors test (Petrol Engine) 2. Differential Unit 3. Synchromesh Gear box 4. Constant mesh Gear box 5. steering Assembly - rack and pinion type 6. Battery coil ignition system 7. Clutch set with puller
Foundry & Welding Lab	1.Welding Machine 2. Moulding board 3.Shovel (Small) 4.Shovel (large) 5.Lathe 6. Drilling machine 7. bench grinding machine
Measurements and Metrology Lab	1.Vernier 2. Micrometer 3. Vernier height gauge 4. Mechanical comparator 5. Gear tooth vernier caliper 6. Slip gauge on sine bar
Fluid Mechanics Lab	1. Francis Turbine Test 2. Reciprocating Pump 3. Centrifugal Pump 4. Orificemeter 5. Bernoulli's Apparatus
Strength of Materials Lab	1. UTM Machine 2. Rockwell Hardness testing machine 3. Impact testing machine 4. Torsion Testing Machine 5. Compression Testing machine 6. Spring testing machine
Process Automation Lab	1. Pneumatic trainer kit 2. Hydraulic trainer kit
Basic Workshop Lab	1. Benchwise 2. Carpentary wise 3. Pipe bending machine 4. Drilling Machine 5. Die with die stock

Mechatronics:	
Electronic Devices and circuit lab	1. DC Regulated power supply0-30V,1A 2. High Voltage Power Supply0-250V,1A 3. Signal Generator 1MHz 4. Dual trace CRO 20MHz/ 30MHz 5. Digital Multimeter 6. DC Voltmeter(Analog/Digital) 7. DC Ammeter(Analog/Digital)
Electrical Circuits, Machines & Drives	1. Dual power supply 2. Single phase Transformer 3. DC Shunt Motor with Loading arrangement 4. Stepper motor Control Kit 5. DC motor Speed control Kit 6. Star Delta Starter 7. Tachometer
Manufacturing Technology	1. Lathe 2. Milling Machine 3. Cylindrical Grinding Machine 4. Surface Grinding Machine 5. Shaper
CAD	1. Desktop Computer 2. Software - CAD Software
Analog And Digital Electronic	1. DC Regulated power supply 2. IC Voltage Power Supply 3. Signal Generator 4. Dual trace CRO 5. Digital Trainer 6. Desk Top Computer
Industrial Instrumentation and Sensors	1. DC Regulated power supply 2. Wheatstone bridge kit 3. Schering bridge kit 4. Strain gauge kit 5. Proximity Sensor – Inductive and Capacitive 6. IR Sensor
Microcontroller	1. 8051 Microcontroller kit 2. Digital I/O Interface board 3. Seven segment LED display interface board 4. 8 bit DAC interface board 5. Stepper motor control interface board
Robotics	1. Robot Off Line Simulation Software 2. Six Axis Robot 3. Computers 4. Line Follower Kit
C Programming Language	1. Desktop/Laptop Computers 2. Laser Printer 3. C-Compiler and Editor
Process Control	1. On-Off Level Process 2. On-Off Pressure Process 3. Temperature Process 4. Lvdt Trainer Module 5. Rtd Trainer Module
Industrial Automation Practical	1. Basic Pneumatic Trainer Kit 2. Electro Pneumatic trainer kit 3. Basic Hydraulic Trainer Kit 4. Electro Hydraulic trainer kit 5. PLC Module

- **List of Experimental Setup in each Laboratory/Workshop**

Laboratory / Workshop	List of Experiments
Chemistry	**1. Quantitative Analysis:** • Estimation of Sulphuric Acid • Estimation of Sodium Hydroxide • Comparison of Two Hydrochloric Acid Solutions • Estimation of Mohr's Salt • Estimation of Iron • Comparison of Strengths of Two Potassium Permanganate Solutions • Estimation of Residual Chlorine of Water • Estimation of Total Hardness of Water • Determination of pH using pH meter • Water Quality testing using Total Dissolved Solids (TDS) **2. Qualitative Analysis - Salt Analysis** **3. Effluent Analysis – Lead, Copper, Zinc**
Physics	• Micrometer (Screw Gauge). • Vernier Calipers. • Parallelogram Law • Lami's Theorem • Comparison Of Viscosities • Stokes' Method • Sonometer. • Deflection Magnetometer • Refractive Index • Spectrometer • Solar Cell • Laws Of Resistances • Joule's Calorimeter • Copper Voltameter • P-N Junction Diode • Logic Gates
Basic Workshop	• Fitting • Carpentry • Electrical • Plumbing
Communication Skill	• Listening skill • Reading skill • Speaking skill • Writing skills
Computer Application	• MS Office

Laboratory / Workshop	List of Experiments
Mechatronics: (M Scheme) **CAD**	• Machine & Assembly drawings in 2D only • 3D solid modeling practice • Isometric Drawing
Process Control	• Transient response of thermocouple • Effect of Capacity • On- off control of temperature process • On – off control of pressure process • Differential output of a thermocouple • Measurement of temperature using RTD • Measurement of temperature using thermistor • Measurement of Pressure • Characteristics of control valve • Response of PID controller • Measurement of displacement using LVDT
Robotics	• Robot system connection and component recognition. • Robot operation, moving the various axis continuous and intermittent motions. • Writing programs off-line a. Homing operation, b. Recording positions. • Write a Program for stacking the object using offline. • Write a Program for stacking the object using offline. • Write a Looping program using offline. • Writing programs on-line a. Homing operation, b. Recording positions. • Teaching positions via XYZ co-ordinates. • Write a Program using XYZ Coordinates. • Write a program using wait, speed commands. • Measurement of Robot work envelope. • Measurement of Robot of motion. • Measurement of Repeatability. • Practical's connected with Photo sensor/transducer. • Study of Vision system in Robot.
Process Control	• Transient response of thermocouple • Effect of Capacity • On- off control of temperature process • On – off control of pressure process • On off control of level process • Differential output of a thermocouple • Measurement of temperature using RTD • Measurement of temperature using thermistor • Measurement of Pressure • Characteristics of control valve • Response of PID controller • Measurement of displacement using LVDT

N Scheme: **Analog and Digital Electronics**	• Realization of basic gates using NAND & NOR gates. • Realization of logic circuit for De-Morgans Theorems • Test the performance of Half Adder and Full Adder. • Test the performance of Half Subtractor and Full Subtractor. • Test the performance of Decoder/Encoder. • Test the performance of RS, D, T & JK flip-flops. • Test the performance of Parity generator and checker using parity checker/ generator IC's. • Test the performance of Multiplexer/De-multiplexer using IC 4051 • Test the performance of Inverting Amplifier and Non inverting amplifier using Op-ampIC 741. • Test the performance of Summing Amplifier, Difference Amplifier. • Test the performance of Zero Crossing Detector and Voltage Comparator using Opamp IC 741 • Test the performance of Integrator and Differentiator using Op-amp IC 741. • Test the performance of A stable multivibrator using IC 555. • Test the performance of IC Voltage Regulator Power Supplies using IC 7805, IC7912. • Design the PCB of 4- bit ripple counter using FF using Software tool Multisim /Or CAD etc
Industrial Instrumentation and Sensors	• Calibration of given ammeter and voltmeter • Measurement of power and power factor of single phase load • Measurement of unknown resistance using Wheatstone bridge. • Measurement of value of unknown capacitance using Schering Bridge • Generate different type of Lissajous Patterns using CRO • Measure the force using Strain gauge experiment module • Measure the sensing range of Inductive proximity sensor • Measure the sensing range of capacitive proximity sensor • Detect the level of water in a tank using float switch and control the pump based on the level • Construct and test the circuit for Detecting metal and non-metal object using proximity sensor • Construct and test the circuit for Detecting the Object using IR sensor • Construct and test the circuit to Measure the temperature using temperature sensor (Thermocouple OR RTD) • Construct and test the circuit to Measure

	the sensing range of Analog Ultrasonic sensor module
Microcontroller	• 8 / 16 bit addition, Subtraction, Multiplication,division • BCD to Hex code conversion • Smallest / Biggest number • Time delay routine (Demonstrate by Blinking LEDS). • Timer/ counter of 8051 • Interfacing Digital I/O board • Interfacing DAC • Interfacing Stepper motor • Interfacing Seven segment LED display or LCD • Sending data through the serial port between microcontroller kits • Interfacing DC motor using PWM.
CAD & CAM	• CAD Geneva Wheel, Bearing block, Bushed bearing, Gib and Cotter joint, Screw Jack, Connecting rod • CAM – LATHE Linear and circular interpolation, Stock Removal Cycle, Canned Cycle • CAM – MILLING Linear and circular interpolation – Grooving Drilling,tapping,countersinking canned cycle Mirroring
Machine Tool Testing and Maintenance	**1. Machine Tool Alignment** • Conduct test for the lathe machine and prepare a test chart. • Conduct test for the shaping machine and prepare a test chart. • Conduct test for the drilling machine and prepare a test chart. • Conduct test for the surface grinding machine and prepare a test chart. • Conduct test for the milling machine and prepare a test chart. • Conduct test for the slotting machine and prepare a test chart. **2. Maintenance (Dismantle, inspect and assemble the following machine components)** • Lead screw and nut, Tailstock, Bench vice, Three jaw chuck, Four jaw chuck, Drill chuck
Process Automation	**1. Pneumatics Lab** • Direct operation of single and double acting cylinder • Operation of double acting cylinder with quick exhaust valve • Speed control of double acting cylinder using metering-in and metering-out circuits • Automatic operation of double acting cylinder in single cycle - using limit switch • Automatic operation of double acting cylinder in multi cycle - using limit switch

	2.Hydraulics Lab • Direct operation of double acting cylinder • Direct operation of hydraulic motor • Speed control of double acting cylinder metering-in and metering-out control
PLC Lab	• Direct operation of a motor using latching circuit • Operation of a motor using 'AND' logic control • Operation of a motor using 'OR' logic control • On-Delay control of a motor and Off – Delay control of a motor • Automatic operation of a Double acting cylinder-single cycle • Automatic operation of a Double acting cylinder-single cycle - forward, • Automatic operation of Double acting cylinder-Multi cycle • Sequential operation of double acting cylinder and a motor
Thermal and Automobile Practical	**1. Thermal lab** • Determine flash and fire point of the given oil by using open cup apparatus and closed cup apparatus. • Determine the absolute viscosity of the given lubricating oil by using Redwood viscometer / Say bolt viscometer. • Draw a port time diagram of two stroke petrol / diesel engines. • Draw a valve timing diagram four stroke petrol / diesel engines. • To conduct a load test on petrol / diesel engines. • To conduct a morse test on multi cylinder petrol / diesel engines. • To conduct a Heat balance test on a four stroke petrol (or) diesel engines. **2. Automobile lab** • Dismantling, assembling of pressure plate , clutch plate and steering gear box. • Dismantling, inspecting and assembling of gear box and find out the gear ratios. • Dismantling,inspectingand assembling of final drive and differential units.Adjusting of backlashand correct tooth contact of crown and pinionof differential unit. • Removing camshaft, replacing timing gears, removing valves and adjusting valve clearance. • Removing, servicing and replacing solex carburator (or) MPFI system. • Dimantling, and assembling of inline fuel injection pump (or) CRDI system and injectors. • Test a battery with specific gravity test and charge the battery with constant ampere/voltage method. Dismantling, overhauling and assembling of starter motor and alternator (or) dynamo.

Laboratory / Workshop	List of Experiments
Robotics	• Position recording using Cartesian co-ordinate system - (No. of positions to be specified - 9) • Position recording using Polar co-ordinate system - (No. of positions to be specified- 9) • Pick and place the objects - No. of objects to be specified- 6) • Pick and stack the objects - (No. of objects to be specified- 6) • Spray painting practice - (Area to be specified - 300mm x 300mm) • Spot welding practice - (No. of spots to be specified - 9) • Arc welding practice – (Length of weld to be specified) • Assembling practice - (Simple assembling) • Profile cutting practice - (Complicated profile – combination of lines and arcs) • Machine loading and unloading practice with time delay - (No. of times to be specified- 9)

- **Computing Facilities**

Internet Bandwidth	100mbps
Number and configuration of System	4 - I3, I5, Dual core, Core 2 duo
Total number of system connected by LAN	165
Total number of system connected by WAN	40
Major software packages available	AUTOCAD, CNC, MS OFFICE 2010
Special purpose facilities available (Conduct of online Meetings/Webinars/Workshops, etc.)	LCD Projector, Screen, Headphone, Handy Camera, Web camera
Facilities for conduct of classes/courses in online mode (Theory & Practical)	LCD Projector, Screen, Headphone, Handy Camera, Web camera
Innovation Cell	Ref. Annexure II
Social Media Cell	Facebook , YouTube
Compliance of the National Academic Depository (NAD), applicable to PGCM/ PGDM Institutions and University Departments	Not Applicable

- **List of facilities available**

Games and Sports Facilities	Volleyball, Cricket, Kabaddi, Kho-Kho, Ball badminton, Badminton
Extra-Curricular Activities	Pencil Drawing, Painting, Spell bee, Photography
Soft Skill Development Facilities	**Finishing school program, Training and Placement**

- **Teaching Learning Process**

Curricula and syllabus for each of the Programmes as approved by the University	**Available in our website:** http://www.ranepolytechnic.edu.in/syllabus.html
Academic Calendar of the University	Annexure - III
Academic Time Table with the name of the Faculty members handling the Course	
Internal Continuous Evaluation System and place	• Class-in-charges to collect the feedback (written form) from the students after periodical exams both on course content and delivery by staff member. • HOD to analyze and discuss with respective staff member • Review with principal and get suggestion for further action if necessary. • Suggest the improvements to the staff through HOD. • Ensure that the suggestions are incorporated by the staff.
Student's assessment of Faculty, System in place	• Send Self – Assessment form (My Pride) from Principal's desk to all staff members by mail before Apr 31 every year • Ensure that all staff fill up Self- Assessment form (My Pride) before May 31 and mail it to the Principal. • Principal & Management representative will collect students' feedback forms during college hours. • HODs' will give feedback report about Staff (Teaching & Non-Teaching) to the Principal. • Students feedback, Self-Assessment form, HOD feedback & Principal feedback will be consolidated by the Principal & Management representative • Increments and Pay revision will be based on the 'performance & consolidated report' made by Principal & Management representative

- **Enrolment and placement details of students in the last 3years**

Year	No. of students enrolled	No.of students placed on campus
2022-23	127	127
2021-22	132	132
2020-21	185	185

13. List of Research Projects/ Consultancy Works

Industry Linkage	1. Resource person for Finishing school program 2. IITP for Teachers
MoUs with Industries (minimum3(10))	**5 Industries** 1.RBL 2.ZF Rane(OSD) 3.Worth Industries 4.Siemens Centre, NIT 5.REVL

14. LoA and subsequent EoA till the current Academic Year

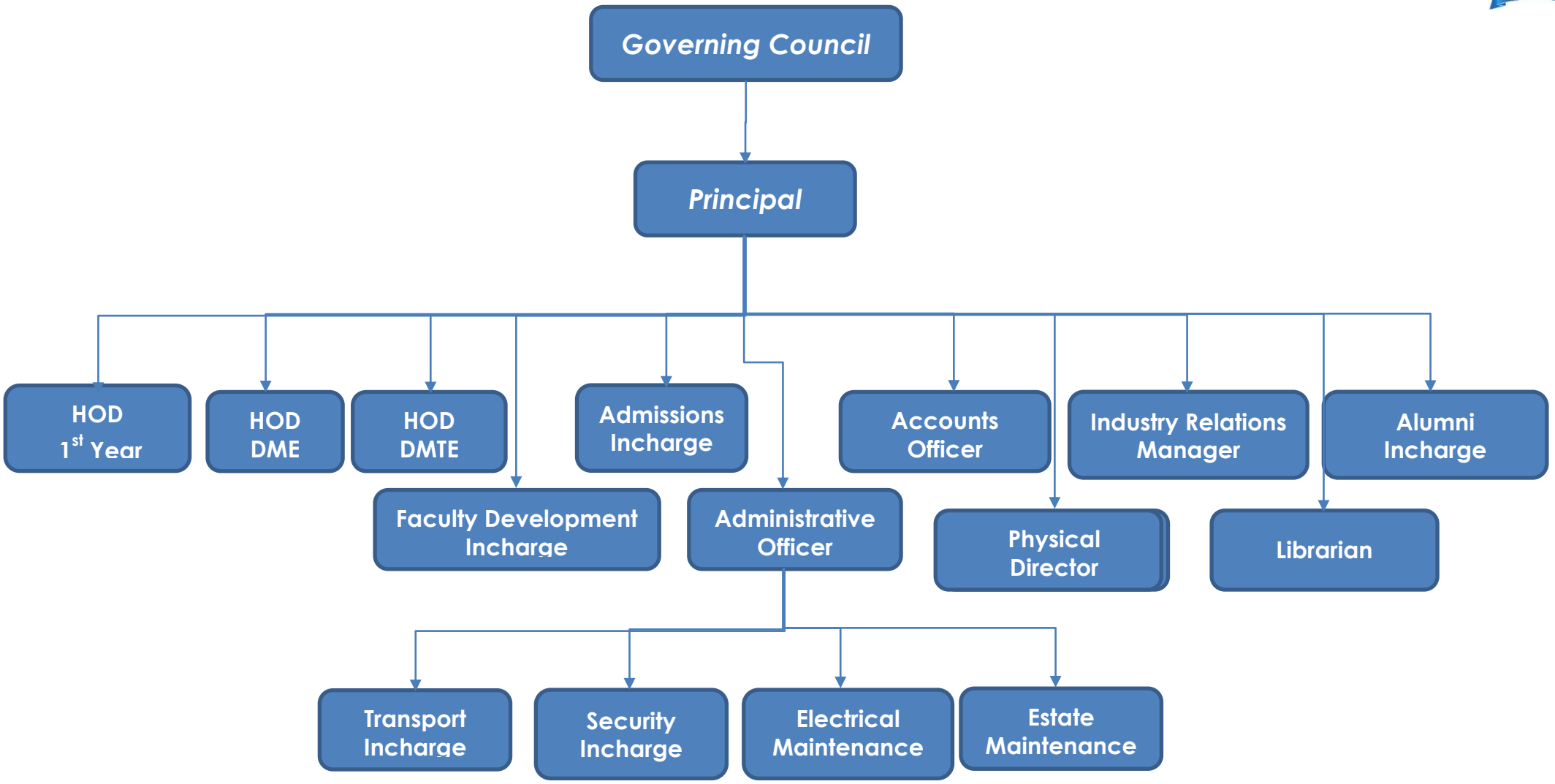
LOA and subsequent EOA (2012-24)	**Available in our website:** **http://www.ranepolytechnic.edu.in/affiliation.html**

15. Accounted audited statement for the last three years

Audit Report (2020-22)	**Available in our website:** **http://www.ranepolytechnic.edu.in/aboutaudit.html**

Annexure – I

Organization Chart



Annexure – II

Innovation Cell

MoE's INNOVATION CELL (GOVERNMENT OF INDIA)

INSTITUTION'S INNOVATION COUNCIL (Ministry of Education Initiative)

AICTE

CERTIFICATE

This is to certify that

RANE POLYTECHNIC TECHNICAL CAMPUS, Tiruchirappalli

has established Institution Innovation Council(IIC) as per the norms of Innovation Cell, Ministry of Education, Govt. of India during IIC Calendar year 2021-22

Prof.Anil D.Sahasrabudhe
Chairman, AICTE

Dr. Abhay Jere
CIO, MHRD,
Innovation Cell

Date : 05-04-2022

Certificate No : 6503

Annexure – III

2023-24 Odd Semester

Academic Calendar

Date and Day	Details of Activity	No. of Days	Event Coordination
Monday, June 12, 2023	College Reopens for 2nd & 3rd Year, Lateral Inauguration	S1 - 1	
Tuesday, June 13, 2023		S1 - 2	
Wednesday, June 14, 2023		S1 - 3	
Thursday, June 15, 2023		S1 - 4	
Friday, June 16, 2023		S1 - 5	
Saturday, June 17, 2023	Saturday Holiday		
Sunday, June 18, 2023	Sunday Holiday		
Monday, June 19, 2023		S1 - 6	
Tuesday, June 20, 2023		S1 - 7	
Wednesday, June 21, 2023	First year Inauguration - Induction Program Starts International Yoga Day Celebrations	S1 - 8	Basic Engineering Dept
Thursday, June 22, 2023	NBA Review	S1 - 9	Principal
Friday, June 23, 2023		S1 - 10	
Saturday, June 24, 2023	FSP Training		FSP Incharges
Sunday, June 25, 2023	Sunday Holiday		
Monday, June 26, 2023	MSME Day - Visit to a nearby MSME	S1 - 11	EDP Club
Tuesday, June 27, 2023	Class Committee Meeting -DMTE, II Year	S1 - 12	CC Chairman
Wednesday, June 28, 2023	First Year induction program ends	S1 - 13	
Thursday, June 29, 2023	**Bakrid- Holiday**		
Friday, June 30, 2023		S1 - 14	
Saturday, July 01, 2023	Saturday Holiday		
Sunday, July 02, 2023	Sunday Holiday		
Monday, July 03, 2023		S2 - 1	
Tuesday, July 04, 2023	Class Committee Meeting -DME - II Year	S2 - 2	CC Chairman
Wednesday, July 05, 2023	Health Check up Day	S2 - 3	PHC, Nagamangalam
Thursday, July 06, 2023		S2 - 4	
Friday, July 07, 2023	Rejuvenate - Group Review	S2 - 5	
Saturday, July 08, 2023	FSP Training, PTA Meeting -1		
Sunday, July 09, 2023	Sunday Holiday		
Monday, July 10, 2023		S2 - 6	
Tuesday, July 11, 2023	World Youth Skills Day Celebration - Student Club Inauguration	S2 - 7	Dept Extracurricular Incharges
Wednesday, July 12, 2023		S2 - 8	
Thursday, July 13, 2023		S2 - 9	
Friday, July 14, 2023		S2 - 10	
Saturday, July 15, 2023	Saturday Holiday		
Sunday, July 16, 2023	Sunday Holiday		
Monday, July 17, 2023	CAT - 1 - 2nd Year	S2 - 11	Exam Cell
Tuesday, July 18, 2023	CAT - 1 - 2nd Year	S2 - 12	Exam Cell
Wednesday, July 19, 2023	CAT - 1 - 2nd Year	S2 - 13	Exam Cell
Thursday, July 20, 2023	CAT - 1 - 2nd Year, World Chess Day Celebration	S2 - 14	P. Ed Staff

Friday, July 21, 2023		S2 - 15	
Saturday, July 22, 2023	FSP Training		FSP Incharges
Sunday, July 23, 2023	Sunday Holiday		
Monday, July 24, 2023		S2 - 16	
Tuesday, July 25, 2023	Class Committee Meeting -DME	S2 - 17	CC Chairman
Wednesday, July 26, 2023	Class Committee Meeting -DMTE	S2 - 18	CC Chairman
Thursday, July 27, 2023		S2 - 19	
Friday, July 28, 2023		S2 - 20	
Saturday, July 29, 2023	Muharam - Saturday Holiday		
Sunday, July 30, 2023	Sunday Holiday		
Monday, July 31, 2023		S2 - 21	
Tuesday, August 01, 2023	CAT- 1- First Semester & 3rd Year	S3 - 1	
Wednesday, August 02, 2023	CAT- 1- First Semester & 3rd Year	S3 - 2	
Thursday, August 03, 2023	CAT- 1- First Semester & 3rd Year	S3 - 3	
Friday, August 04, 2023	CAT- 1- First Semester & 3rd Year	S3 - 4	
Saturday, August 05, 2023	Saturday Holiday		
Sunday, August 06, 2023	Sunday Holiday		
Monday, August 07, 2023	Rejuvenate - Group Monthly Review	S3 - 5	
Tuesday, August 08, 2023	Cycle 1 - Practical Exam - 2nd & 3rd Year	S3 - 6	Exam Cell
Wednesday, August 09, 2023	Cycle 1 - Practical Exam - 2nd & 3rd Year	S3 - 7	Exam Cell
Thursday, August 10, 2023	Cycle 1 - Practical Exam - 2nd & 3rd Year	S3 - 8	Exam Cell
Friday, August 11, 2023		S3 - 9	
Saturday, August 12, 2023	FSP Training, PTA Meeting -2, Intl Youth Day		FSP Incharges, Principal
Sunday, August 13, 2023	Sunday Holiday		
Monday, August 14, 2023		S3 - 10	
Tuesday, August 15, 2023	Independence Day - Alumni Meet		Alumni Incharge
Wednesday, August 16, 2023		S3 - 11	
Thursday, August 17, 2023		S3 - 12	
Friday, August 18, 2023	World Humariatrian Day Celebration	S3 - 13	NSS Team
Saturday, August 19, 2023	Saturday Holiday		
Sunday, August 20, 2023	Sunday Holiday		
Monday, August 21, 2023	CAT - 2 - 2nd Year	S3 - 14	Exam Cell
Tuesday, August 22, 2023	CAT - 2 - 2nd Year	S3 - 15	Exam Cell
Wednesday, August 23, 2023	CAT - 2 - 2nd Year	S3 - 16	Exam Cell
Thursday, August 24, 2023	CAT - 2 - 2nd Year	S3 - 17	Exam Cell
Friday, August 25, 2023		S3 - 18	
Saturday, August 26, 2023	FSP Training		FSP Incharges
Sunday, August 27, 2023	Sunday Holiday		
Monday, August 28, 2023		S3 - 19	
Tuesday, August 29, 2023		S3 - 20	
Wednesday, August 30, 2023	CAT - 2 - 3rd Year	S3 - 21	
Thursday, August 31, 2023	CAT - 2 - 3rd Year	S3 - 22	
Friday, September 01, 2023	CAT - 2 - 3rd Year	S4 - 1	S3 - 24
Saturday, September 02, 2023	Saturday Holiday		S3 - 25
Sunday,September 03, 2023	Sunday Holiday		
Monday, September 04, 2023		S4 - 2	
Tuesday, September 05, 2023	Teachers Day, International Charity Day Celebrations	S4 - 3	NSS Team, Social Club
Wednesday, September 06, 2023	Krishna Jayanthi - Holiday		
Thursday, September 07, 2023	Intl. Literacy Day Celebrations	S4 - 4	Language Club
Friday, September 08, 2023	Rejuvenate - Group Monthly Review	S4 - 5	

Saturday, September 09, 2023	FSP Training		FSP Incharges
Sunday, September 10, 2023	Sunday Holiday		
Monday, September 11, 2023	CAT 2 - First year	S4 - 6	Exam Cell
Tuesday, September 12, 2023	CAT 2 - First year	S4 - 7	Exam Cell
Wednesday, September 13, 2023	CAT 2 - First year Last date for Exam Fee Payment without Fine to DOTE	S4 - 8	Exam Cell
Thursday, September 14, 2023	CAT 2 - First year	S4 - 9	Exam Cell
Friday, September 15, 2023		S4 - 10	
Saturday, September 16, 2023	Saturday Holiday		
Sunday, September 17, 2023	Sunday Holiday		
Monday, September 18, 2023		S4 - 11	
Tuesday, September 19, 2023		S4 - 12	
Wednesday, September 20, 2023	Last Date for Exam Fee Payment with Fine to DOTE, Model- 2nd & 3rd Year	S4 - 13	
Thursday, September 21, 2023	Model- 2nd & 3rd Year	S4 - 14	
Friday, September 22, 2023	Model- 2nd & 3rd Year	S4 - 15	
Saturday, September 23, 2023	Model- 2nd & 3rd Year		
Sunday, September 24, 2023	Sunday Holiday		
Monday, September 25, 2023		S4 - 16	
Tuesday, September 26, 2023		S4 - 17	
Wednesday, September 27, 2023	Intl. Day of Food Loss and Waste - Awareness Creation	S4 - 18	Environment Club
Thursday, September 28, 2023	Milad Un Nabi -Holiday		
Friday, September 29, 2023		S4 - 19	
Saturday, September 30, 2023	Saturday Holiday		
Sunday, October 01, 2023	Sunday Holiday		
Monday, October 02, 2023	Gandhi Jeyanthi -Holiday		
Tuesday, October 03, 2023	Model - 1st Year	S5 - 1	
Wednesday, October 04, 2023	Model - 1st Year, Rejuvenate - Group Monthly review	S5 - 2	
Thursday, October 05, 2023	Model - 1st Year	S5 - 3	
Friday, October 06, 2023	Last working Day for 2nd & 3rd Year, Model 1st Year	S5 - 4	
Saturday, October 07, 2023	Saturday Holiday		
Sunday, October 08, 2023	Sunday Holiday		
Monday, October 09, 2023	Coaching begins for First year	S5 - 5	
Tuesday, October 10, 2023		S5 - 6	
Wednesday, October 11, 2023		S5 - 7	
Thursday, October 12, 2023		S5 - 8	
Friday, October 13, 2023	Hall ticket issue for DOTE Exams - 2nd & 3rd year	S5 - 9	
Saturday, October 14, 2023	Saturday Holiday		
Sunday, October 15, 2023	Sunday Holiday		
Monday, October 16, 2023		S5 - 10	
Tuesday, October 17, 2023		S5 - 11	
Wednesday, October 18,		S5 - 12	

2023			
Thursday, October 19, 2023		S5 - 13	
Friday, October 20, 2023	Rejuvenate - Group Monthly Review	S5 - 14	
Saturday, October 21, 2023	Saturday Holiday		
Sunday, October 22, 2023	Sunday Holiday		
Monday, October 23, 2023	Ayutha Pooja -Holiday		
Tuesday, October 24, 2023	Vijaya Dasami -Holiday		
Wednesday, October 25, 2023		S5 - 15	
Thursday, October 26, 2023		S5 - 16	
Friday, October 27, 2023		S5 - 17	
Saturday, October 28, 2023	Last working Day for 1st Sem students	S5 - 18	
Sunday, October 29, 2023	Sunday Holiday		
Monday, October 30, 2023	Commencement of DOTE Exams - 2nd & 3rd Year		
Tuesday, October 31, 2023			
Wednesday, November 01, 2023			
Thursday, November 02, 2023			
Friday, November 03, 2023			
Saturday, November 04, 2023	Saturday Holiday, Hall ticket issue for 1st Semester		
Sunday, November 05, 2023	Sunday Holiday		
Monday, November 06, 2023	Commencement of DOTE Exams - 1st Year		
Tuesday, November 07, 2023			
Every Tuesday afternoon	First Year - Basic Literacy/ Numeracy Activities		Maths/ English Staff
Every Thursday afternoon	Club Activities for First year		Club Incharges
Every Wednesday First Hour	Assembly Session for first years		Language Staff
Every Monday	Smart dressing Day		All Students & Staff
All Tuesdays	No Mobile Day		All Students & Staff
Fridays	Day of Appreciation		All Students & Staff