

Infrastructure and Facilities

Faculty Rooms and Facilities

Sl. No.	Room No	Size (Sq Mt)	Type	Location	Facility
1	Principal Cabin	25	Individual Room	Main Building	Enough Furniture, Cup boards, A/c, Light, Think Center/Desk Top with Internet, Intercom, CCTV
2	H1	15.4	-do-	Mech Dept (GF)	Enough Furniture, Cup boards, Fan, Light, Think Center/Desk Top with Internet, Intercom
3	P1	7.50	-do-	-do-	-do-
4	P2	7.50	-do-	-do-	-do-
5	P3	7.50	-do-	-do-	-do-
6	P4	7.17	-do-	-do-	-do-
7	P5	7.17	-do-	-do-	-do-
8	P6	7.17	-do-	-do-	-do-
9	P7	7.37	-do-	-do-	-do-
10	P8	7.37	-do-	-do-	-do-
11	P9	7.37	-do-	-do-	-do-
12	P10	8.50	-do-	-do-	-do-
13	P11	8.50	-do-	-do-	-do-
14	P12	7.67	-do-	-do-	-do-
15	P13	7.67	-do-	-do-	-do-
16	P14	7.67	-do-	-do-	-do-
17	P15	7.67	-do-	-do-	-do-
18	P16	7.67	-do-	-do-	-do-
19	P17	7.67	-do-	-do-	-do-
20	P18	7.67	-do-	-do-	-do-
21	P19	7.67	-do-	-do-	-do-
22	P20	7.67	-do-	-do-	-do-
23	Fit/Carp/Mac Shop-Block	20	-do-	-do-	-do-
24	Fit/Carp/Mac Shop-Block	20	-do-	-do-	-do-
25	Dean's Wing	10.0	-do-	Admin Block	-do-
26	Dean's Wing	10.0	-do-	Admin Block	-do-
27	P-CAD Lab, cabin	10.0	-do-	Main Building	-do-

Class Rooms

(Odd Semester)

a) For Lectures/Tutorials		
Sl. No.	Room No	Allocation
1	8	III SEM (A-DIV)
2	9	III SEM (B-DIV)
3	10	V SEM (A-DIV)
4	11	V SEM (B-DIV)
5	12	VII SEM (A-DIV)
6	8-12(shared)	VII SEM (B-DIV)
7	D3	I-SEM (A – D DIV)
b) For Electives		
8	8,9,10,12,T2	VII SEM/VSEM

(Even Semester)

a) For Lectures/Tutorials		
Sl. No.	Room No	Allocation
1	8	IVSEM (A-DIV)
2	9	IV SEM (B-DIV)
3	10	VI SEM (A-DIV)
4	11	VI SEM (B-DIV)
5	12	VIII SEM (A-DIV)
6	8-12(shared)	VIII SEM (B-DIV)
7	D3	I-SEM (E – I DIV)
b) For Electives		
8	10,11,12,T2	VI & VIII SEM

Detailed Information of Class Rooms

Room	Usage	Shared/ Exclusive	Capa city	Size (Sq.mt)	Facilities
8	III & IV SEM UG (A-DIV)	Exclusive	84	93.96	28 benches, Glass Board, LCD Projector with screen, 3 windows, enough fans & lights are fitted
9	III & IV SEM UG (B-DIV)	Exclusive	84	93.96	-do-
10	V & VI SEM UG (A- DIV)	Shared	70	93.96	35 benches (2students per bench), Glass Board, LCD Projector with screen, 3 windows, 2doors enough fans & tube lights are fitted
11	V & VI SEM UG (B- DIV)	Exclusive	84	82.6	28 benches (3students per bench), Glass Board, LCD Projector with screen, 3 windows, 1door enough fans & tube lights are fitted
12	4 th Year UG (for lecture& tutorial)	Shared	70	82.6	26 benches (2/3students per bench- mix type), Glass Board, LCD Projector with screen, 3 windows, 1door enough fans & tube lights are fitted
*PG-1(1 st floor-new PG block)	1 st year M.Tech (EAD) (for lecture& tutorial)	Exclusive	18	33	9 benches,18 chairs, Glass Board, LCD Projector with screen, 2 windows enough fans & tube lights are fitted
*PG-2(1 st floor-new PG block)	2nd year M.Tech (EAD) (for lecture& tutorial)	Exclusive	18	33	-do-
D3	Drawing (1 st Year) UG	Shared	120	281	120 Drawing Tables (one per student) 120 stools, Glass Boards, 11windows, 3 doors ,enough fans & lights are fitted
*Seminar hall(1 st floor-new PG block)	4 th year UG & MTech (1 st ,2 nd year), Faculty meeting ,Counseling	Shared	80+	141	40 tables and 80 chairs, podium, enough fans & tube lights are fitted
*PG-3(1 st floor-new PG block)	1 st year M.Tech (IAR) (for lecture& tutorial)	Exclusive	18	33	9 benches,18 chairs, Glass Board, LCD Projector with screen, 2 windows enough fans & tube lights are fitted
*PG-4(1 st floor-new PG block)	2nd year M.Tech (IAR) (for lecture& tutorial)	Exclusive	18	33	-do-

LIST OF PROGRAMME SPECIFIC LABS

Laboratory	Semester	Type	Area in Sq.mt	No of students	No of Expt prescribed
Material Science & Material Testing Lab	III	Exclusive	40.75	15-20/ Batch	11
Foundry & Forging Lab	III	Exclusive	219.04 (Foundry) 188.2 (smithy)	15-20/ Batch	07+03=10 (Foundry, Forging)
Measurement Lab	IV	Exclusive	56.83	15-20/ Batch	14
CEA/CAM Lab	VI	Shared	162.45	15-20/ Batch	16
Machine Shop Practice	V	Exclusive	286.16	15-20/ Batch	07
Energy conversion Lab (Inclusive of IC engine Section)	IV	Exclusive	199.80	15-20/ Batch	Fuels -7+ ICEngine- 4 =11
Fluid Mechanics & Fluid Machinery Lab	V	Exclusive	129.80	15-20/ Batch	14
Heat Transfer Lab	VI	Exclusive	92.07	15-20/ Batch	12
Dynamics Lab	VII	Exclusive	96.80	15-20/ Batch	10+(01- Modelling- Analysis)= 11
Workshop Practice	I &II	Exclusive	282.65	30-35 /batch	2+2+2+1= 07 (Fitting, Sheet Metal, Welding, Carpentry)

Laboratories and Major equipments

Sl. No.	Name of the Laboratory	No of students per set up (batch size)	Name of the important equipment
1	Work shop (I/II sem UG)	30-35 (2per setup - Fitting & Sheet Metal)	1. Vernier Height Gauge, surface plate & wire gauge 2. Bench Vices & Hand tools 3. Arc Welding M/c, 4. Bench drilling M/c 5. Soldering Guns 6. Surface plates
2	Material Science & Material Testing Lab (III sem UG)	15- 20 (5 per setup)	1. UTM-40T 2. Hardness Tester 3. Impact Testing M/c 4. Polishing M/c 5. Metallurgical microscope 6. Magnetic Crack Detector 7. Surface roughness Tester 8. Pin on disc wear testing m/c 9. Torsion testing machine 10. Fatigue testing machine
3	Forging & Foundry Lab (III sem UG)	15 – 20 (5 per setup for minor expts & 1 per major expt))	1. Sand Moulding equipments & Tools 2. Shear & Compression strength tester 3. Permeability tester 4. Clay content tester 5. GFN tester 6. Mould Hardness Tester 7. Open hearths 8. Forging tools
4	Measurements Lab (IV sem UG)	15 – 20 (5 per setup)	1. Calibrating set up for LVDT, Micrometer, Pressure gauge, Load cell, Thermocouple 2. Sine bar 3. Bevel Protractor 4. Profile projector 5. '3wire' setup 6. Strain indicator 7. Gauges 8. Comparator
5	Machine shop Practice (V sem UG)	15 – 20 (5 per set up-for Milling and Shaping & 1 per setup for Lathe)	1. Lathe 2. Milling M/c 3. Shaping M/c 4. Drilling M/c 5. Power Hacksaw 6. CNC Milling M/c (BFW)

6	Fluid Mechanics and Fluid machinery Lab (V sem UG)	15-20 (5 per setup)	<ol style="list-style-type: none"> 1. Francis Turbine 2. Pelton Turbine 3. Kaplan Turbine 4. R/P Pump 5. C/F. Pump 6. C/F. Blower 7. Minor loss set up 8. Major loss set up 9. Notch set up 10. Venturimeter & Orificemeter 11. Impact of jet apparatus 12. Wind Tunnel
7	Energy conversion Lab (IV sem UG)	15 – 20 (5 per setup)	<ol style="list-style-type: none"> 1. Junker's Calorimeter 2. Viscometers (Red wood & Saybolt) 3. Flash and Fire point 4. IC engines (petrol)- test rig 5. IC engines (diesel)- test rig 6. Refrigeration & Air conditioning test rig
8	Heat Transfer Lab (VI sem UG)	15- 20 (5 per setup)	<ol style="list-style-type: none"> 1. Heat Exchanger 2. H.T. set up (by nat & forced convection) 3. Composite wall apparatus 4. Lagged pipe apparatus 5. HT through fin apparatus 6. Critical heat flux apparatus 7. Boiling & Condensation test rig 8. Stefan Boltzman test set up 9. Emissivity test set up
9	CEA/ CAM Lab (VI sem UG)	15 – 20 (1 per setup)	<p><u>Hardwares</u></p> <ol style="list-style-type: none"> 1. Dell computers 2. HP workstations 3. HP P4 D. Tops 4. HP laptop 5. LCD Projector 6. HP Laserjet Printer 7. HP scanner <p><u>Softwraes</u></p> <ol style="list-style-type: none"> 1. Capsturn, Capsmill 2. ANSYS11.0 3. ADAMS2005 4. CATIA-V5,R6 5. SolidEdge-19 6. UG-NX4 7. FEMAP-Nastran 8. LS-DYNA 9. ProE-WildFire3.0 10. AutoCad, Invent11

			<ul style="list-style-type: none"> 11. Ansys/CFD 12. Altair Hyperworks 7 13. Flow vision CFD 14. Windows server 15. Fluent
10	Dynamics Lab (VIIsem UG)	<p style="text-align: center;">15 – 20 (5 per setup)</p>	<ul style="list-style-type: none"> 1. Polariscope 2. Governor set up 3. Gyroscope set up 4. Whirling set up 5. Strain indicator 6. Vibration set up 7. Balancing set up
11	BOSCH (COE) lab	<p style="text-align: center;">15-20 (5 per setup)</p>	<ul style="list-style-type: none"> 1. CNC vertical milling machine 2. Basic pneumatics and basic Hydraulics trainer kits 3. Electro pneumatics/ Electrohydraulic trainer kits 4. Sensorics kit 5. PLC trainer kits