

DEPARTMENT OF MECHANICAL ENGINEERING

INFORMATION BULLETIN 2019-2020



GOVERNMENT ENGINEERING COLLEGE PALAKKAD SREEKRISHNAPURAM

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1 COLLEGE AT A GLANCE

1.1 Introduction

Government Engineering College, Sreekrishnapuram, Palakkad was established by the Government of Kerala in the academic year 1999-2000. Within a short span of time since inception, the college has achieved notable academic excellence. The college has been affiliated to the A.P.J. Abdul Kalam Kerala Technological University (KTU). It is under the administrative control of the Director of Technical Education, Government of Kerala. The present principal is Dr. P.C. Reghuraj.

The college offers 4-year full-time B.Tech courses in the following branches: 1. Computer Science and Engineering, 2. Electronics and Communication Engineering, 3. Information Technology 4. Mechanical Engineering, 5. Electrical and Electronics Engineering and M.Tech course in Computational Linguistics

1.2 Location

The campus is situated in Palakkad district at a walking distance from Mannampatta junction. It is only 25 km from the Ottapalam railway station and 35 km from Palakkad railway station. The nearest bus station is 1 km away.

1.3 Governance

The college is functioning under administrative control of Department of Higher Education, Govt. of Kerala.

Board of Governors

The Governance of the institution is done under the guidance of Board of Governors. The governing body of the institution is collectively responsible for overseeing the institutions' activities, determining its future direction, and fostering an environment in which the institutional mission is achieved.

The BoG of the institution is chaired by . Dr. A. K. Nandakumaran, Professor, Dept. of Mathematics, IISc Bangalore

1	Dr. A. K. Nandakumaran, Professor, Dept. of Mathematics, IISc Bangalore, E-Mail: nands@math.iisc.ernet.in, Ph:8023517577	Chairperson	Educationalist
2	Dr. K P Indiradevi Director of Technical Education DTE, Thiruvananthapuram. Email: indiradevikp@gmail.com	Member	(Ex-officio) Educationalist
3	Dr Jayakumar .S (Ex-officio) Director SPFU Email: spfu.teqip.kerala@gmail.com	Member	(Ex-officio) Educationalist
4	Dr.Asokan.T Professor, Mechanical Dept. IIT Madras, Email : asok@iitm.ac.in	Member	Educationalist

5	Joint Secretary/Additional Secretary Higher Education Dept. Thiruvananthapuram	Member	(Ex-officio) State Government Nominee
6	Dr.RameshUnnikrishnan Regional Officer & Director, AICTE- South Western Regional Office (SWRO) Trivandrum, Email : rameshtrivandrum@rediffmail.com	Member	Educationalist (AICTE Nominee)
7	Dr. B.S. Manoj, Professor& Head (Avionics / Computer Networking), Indian Institute of Space Science and Technology, Thiruvananthapuram E-Mail: bsmanoj@ieee.org, Ph: 9400016607.	Member	Educationalist
8	Joint Secretary/Additional Secretary, Finance Dept. Thiruvananthapuram.E-mail:ganiloffice@gmail.com,	Member	(Ex-officio) State Government Nominee
9	Controller of Examination KTU,Email: controller@ktu.edu.in	Member	University Nominee
10	Dr. P C. Reghu Raj Principal, GEC Sreekrishnapuram, Palakkad. E-Mail:pcreghu@gmail.com, Ph: 9447315446.	Member Secretary	(Ex-officio) Educationalist
11	Dr. P C Rafeeqe Professor and Head- CSE Dept. GEC, Sreekrishnapuram, Palakkad E-Mail: rafeeqpc@yahoo.co.in, Ph: 9495785370.	Institutional Member	Educationalist
12	Dr. K.R.Jayadevan Professor and Head- ME Dept. GEC, Sreekrishnapuram, Palakkad. E-Mail:jayadevankr@gecskp.ac.in. Ph: 9447236580	Institutional Member	Educationalist

Vision of the Institute

Excellence through the wings of science and technology.

Mission of the institute

To transform youth to talented engineers with creativity and integrity who can meet the technological challenges for the service of society.

2 DEPARTMENT OF MECHANICAL ENGINEERING

The Department of Mechanical Engineering at Government Engineering College, Sreekrishnapuram hill was established in the academic year 2012 and is now headed by Dr. K.R. Jayadevan. The department offers a four-year B.Tech course in Mechanical Engineering. The faculty of Mechanical Engineering are well qualified and academic as well as industrial expertise is not at dearth.

Vision of the Department

To become a recognised center for imparting outstanding education, research, and consultancy in Mechanical Engineering.

Mission of the Department

- Impart quality education to mould successful engineers.
- Commitment to continuous improvement in overall quality of teaching, research, and service.
- Provide state-of-the-art infrastructure and research facilities.

Program Educational Objectives [PEOS]

PEO-1: Acquire sound knowledge in mechanical engineering to excel in professional life.

PEO-2: Ignite passion for engineering to adapt to changes through lifelong learning.

PEO-3: Instill confidence to take up practical engineering problems, upholding ethical, social, and environmental commitments.

PEO-4: Inculcate team work, leadership, innovation, and entrepreneurship qualities

Program Specific Outcomes (PSOs)

PSO-1: Professional competence: Apply engineering knowledge, technical and managerial skills in an engineering industry.

PSO-2: Technical excellence: Create passion in mechanical engineering to pursue higher studies and research.

PSO-3: Social responsibility: Use technology for sustainable development

3 FACILITIES

(a) CAD Lab:

Provides training in programming languages such as C and C++, Autocad, Designing, Modelling and analysis softwares.

(b) Thermal Engineering laboratory:

The lab is equipped with various experimental setups like composite wall, metal rod, lagged pipe, forced convection, free convection, refrigeration test, and multistage compressors, emissivity apparatus, heat pipe apparatus, Stefan Boltzman Heat Exchanges, Pressure and Temperature and Pressure Calibrators, two stroke and four stroke single cylinder and multicylinder petrol and diesel engine test set up with different types of loading systems, Morse test facility, Retardation test facility, Heat balance test facility, fuel and lubricant properties test facility, compressors and blower.

(c) Instrumentation laboratory:

It is equipped with basic measuring instruments and modern instruments like sine bar, profile projector, metallurgical microscope, autocollimator, surface roughness tester, LVDT, strain gauges etc.

(d) Basic mechanical engineering workshops:

Facilities include fitting, carpentry, smithy, foundry, sheet metal, plumbing, welding etc.

(e) Fluid Lab:

The lab is equipped with flow measurement set up's such as orifices, notches, venturimeter, pipe friction apparatus, metacentric height apparatus, Bernoulli's theorem apparatus, Reynolds experiment set up, Pumps and Turbines, Computerised Turbine Test Rigs.

(f) Production engineering lab:

The lab is equipped with Lathe, Milling, shaper, planer, grinding, slotting, drilling, cutting and CNC lathe

4. KERALA TECHNOLOGICAL UNIVERSITY ORDINANCE (B.Tech 2016 Scheme)

4.1 Admission to Bachelor of Technology / B.Tech. / B.Tech. (Honours)

- (a) Eligibility for admission to the B.Tech., programme, admission policy and procedure shall be decided from time to time by following the guidelines issued by the Government of Kerala and the Government of India and other statutory body such as AICTE.
- (b) Subject to Clause 1(a), Admission to B.Tech., shall be based on the guidelines given by the State and Central Governments on reservation. Candidates for admission to B.Tech., programme shall have passed the Higher Secondary Examination, Kerala or 12th Standard V.H.S.E., C.B.S.E., I.S.C or any other examination considered equivalent to the above mentioned ones. Other eligibility criteria for admission is currently prescribed by the Government of Kerala through Government orders which is based on the entrance examination conducted by the Commissioner for Entrance Examinations, Government of Kerala and the marks in the qualifying examination subject to the relaxations allowed for backward classes and other communities as specified from time to time.
- (c) The Branches of study and number of students admitted are to be based on the approval by the All India Council for Technical Education and the Kerala Technological University.
- (d) Notwithstanding all that is stated above, the admission policy may be modified from time to time by the University, particularly to conform to directions from the Government of Kerala and the Government of India.
- (e) The B.Tech / B.Tech. (Honours) programme is a credit based programme. The duration of the B. Tech / B. Tech (Honours) programme will normally be four academic years spanning 8 semesters. The maximum duration shall be six academic years spanning 12 semesters.

4.2 Examination

- (a) At the end of the semester, end semester examination will be conducted in all lecture based courses offered in the semester and will normally be of three hours duration, unless otherwise specified. Supplementary examinations shall be conducted before the commencement of the next semester, for students who are eligible and have registered for them.
- (b) Students, who have completed a course but could not write the end semester examination for valid reasons like illness or personal exigencies, are allowed to write the supplementary examination or the end semester examination at the next opportunity and earn the credits without having to register for the course again provided they meet other eligibility criteria.
- (c) The main eligibility criteria for the end semester examination are attendance in the course, internal marks and no pending disciplinary action. The minimum attendance for appearing for the end semester examination is 75 percent in each course. Further, the internal evaluation marks in the course should be 45 percent or above. Students who do not meet these eligibility criteria are awarded an FE grade and have to register for the course again.
- (d) Students who could not write the end semester examination due to health reasons or other exigencies can register for the supplementary examination, with the approval of the principal provided they have 45 percent or above marks in the internal evaluations for the course. Candidates who received F grade can also write the supplementary examination. Grades awarded in the supplementary examination will be taken as the end semester grades in these courses.

4.3 Eligibility for Award of Degree

The award of B. Tech. / B. Tech. (Honours) degree shall be based on the recommendation of the Academic Committee and the approval of the Board of Governors and in accordance with the academic regulations, if any, issued for the said purpose by the University.

Award of B. Tech. Degree

A student will be eligible for the award of B. Tech. Degree of the University on satisfying the following requirements.

- i) Earned credits for all the core courses and the Project.
- ii) Earned the required minimum credits as specified in the curriculum for the branch of study.
- iii) No pending disciplinary action.

4.4 Fee charged by the University

Fee charged for the programme shall be decided by the University from time to time and informed to all concerned for compliance.

4.5 Discipline of the student – Action against breach of discipline

Every college shall have a Student's Welfare Committee and a Disciplinary Action Committee, constituted by the Principal of the college. Each college should have a Grievance Redressal and Appeals Committee constituted by the Principal to address the grievances of the students and to consider their appeals on any decisions made by the college.

4.6 Breach of guidelines and unfair practices in Examinations

These are viewed seriously and appropriate actions are to be taken by the colleges.

a. Language of Instruction and Examination

Unless otherwise stated, the language of instruction and examinations shall be English.

b. Academic Calendar

The University shall publish in its website the academic calendar for every academic semester indicating the commencement of the semester and beginning of instruction. It will specify the course registration and enrolment dates, the schedule for mandatory internal tests for theory courses, dates by which laboratory/practical evaluations are to be completed.

5. ACADEMIC CALENDER



APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

Academic Calendar - Jul 2019 to Jan 2020

(B.Tech, B.Arch, BHMCT, B.DeS, M.Tech, M.Arch, M.Planning, MCA and Evening B.Tech & M.Tech)

Please see separate Academic Calendar for MBA

(Bold Numbers in Class indicates Instructional days)

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Jul-19				Aug-19				Sep-19				Oct-19			
Days	Date	Description	Class	Days	Date	Description	Class	Days	Date	Description	Class	Days	Date	Description	Class
Mon	1			Thu	1	Commencement of Classes for all other programs	8	Sun	1			Tue	1	Exam Registration ends	43
Tue	2			Fri	2		9	Mon	2		27	Wed	2	Gandhi Jayanthi	
Wed	3			Sat	3			Tue	3		28	Thu	3		44
Thu	4			Sun	4			Wed	4		29	Fri	4		45
Fri	5			Mon	5		10	Thu	5		30	Sat	5		
Sat	6			Tue	6		11	Fri	6		31	Sun	6		
Sun	7			Wed	7		12	Sat	7	Onam Vacation begins		Mon	7	Mahanavami	
Mon	8			Thu	8		13	Sun	8			Tue	8	Vijayadasami	
Tue	9			Fri	9	Induction program ends: S1 B.Tech	14	Mon	9	Muharam		Wed	9		46
Wed	10			Sat	10			Tue	10	First Onam		Thu	10		47
Thu	11			Sun	11			Wed	11	Thiruvonam		Fri	11		48
Fri	12			Mon	12	Course-Sel, Reg & Mapping begins	15	Thu	12	Third Onam		Sat	12		
Sat	13			Tue	13		16	Fri	13	Fourth Onam		Sun	13		
Sun	14			Wed	14		17	Sat	14			Mon	14		49
Mon	15			Thu	15	Independence Day		Sun	15	Onam Vacation ends		Tue	15		50
Tue	16			Fri	16		18	Mon	16	Classes reopens	32	Wed	16		51
Wed	17			Sat	17			Tue	17	Exam Registration begins	33	Thu	17		52
Thu	18			Sun	18			Wed	18		34	Fri	18		53
Fri	19			Mon	19		19	Thu	19		35	Sat	19		
Sat	20			Tue	20		20	Fri	20		36	Sun	20		
Sun	21			Wed	21		21	Sat	21	Sree Narayana Guru Samadhi Day		Mon	21		54
Mon	22	Commencement of Classess S1 B.Tech/B.Arch	1	Thu	22	Course-Sel, Reg & Mapping ends	22	Sun	22			Tue	22		55
Tue	23		2	Fri	23	Sreekrishna Jayanthi		Mon	23	Test 1 to be Completed	37	Wed	23		56
Wed	24		3	Sat	24			Tue	24		38	Thu	24		57
Thu	25		4	Sun	25			Wed	25		39	Fri	25		58
Fri	26		5	Mon	26		23	Thu	26		40	Sat	26		
Sat	27			Tue	27		24	Fri	27		41	Sun	27	Deepavali	
Sun	28			Wed	28	Birthday of Ayyankali		Sat	28	Sports Meet (Coll. level) to complete		Mon	28	Sports Meet (Zon. level) to complete	59
Mon	29		6	Thu	29		25	Sun	29			Tue	29		60
Tue	30		7	Fri	30		26	Mon	30		42	Wed	30		61
Wed	31	Karkadaka Vavu		Sat	31							Thu	31		62



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Nov-19				Dec-19				Jan-20				Feb-20			
Days	Date	Description	Class	Days	Date	Description	Class	Days	Date	Description	Class	Days	Date	Description	Class
Fri	1		63	Sun	1			Wed	1	S7 B.Arch: Jury for training		Sat	1		
Sat	2			Mon	2	Last date for Forwarding IA Marks & Attendance to Uty of all Programs -		Thu	2	Mannam Jayanthi		Sun	2		
Sun	3			Tue	3			Fri	3			Mon	3		
Mon	4		64	Wed	4	Exam S7B.Tech, S7B.Arch, MCA5 and S3 PG Begins		Sat	4			Tue	4		
Tue	5		65	Thu	5	Exam S3 B.Tech, S3B.Arch, S3BHMCT, MCA3, MCA 7and S1 PG Begins		Sun	5			Wed	5		
Wed	6	Test 2 to be Completed	66	Fri	6	Exam S5 B.Tech, S5B.Arch, S1 BHMCT S1 B.DeS and MCA1 Begins		Mon	6	Commencement of classes for all other programs		Thu	6		
Thu	7		67	Sat	7			Tue	7			Fri	7		
Fri	8		68	Sun	8			Wed	8			Sat	8		
Sat	9			Mon	9			Thu	9			Sun	9		
Sun	10			Tue	10			Fri	10			Mon	10		
Mon	11		69	Wed	11			Sat	11			Tue	11		
Tue	12		70	Thu	12			Sun	12			Wed	12		
Wed	13		71	Fri	13			Mon	13			Thu	13		
Thu	14		72	Sat	14			Tue	14			Fri	14		
Fri	15	Class ends for S1 B.Tech/B.Arch, Publish attendance	73	Sun	15			Wed	15			Sat	15		
Sat	16			Mon	16	Commencement of classes S2 B.Tech/B.Arch		Thu	16			Sun	16		
Sun	17			Tue	17			Fri	17			Mon	17		
Mon	18	Publish IA Marks for all programs	74	Wed	18			Sat	18			Tue	18		
Tue	19	Start date for Forwarding IA marks & Attendance to Uty of S1 B.Tech/B.Arch	75	Thu	19			Sun	19			Wed	19		
Wed	20		76	Fri	20			Mon	20			Thu	20		
Thu	21	Last date for evaluation of Jury(B.Arch)	77	Sat	21	Christmas Vacation begins		Tue	21			Fri	21	Maha Shivarathri	
Fri	22	Last date for Forwarding IA marks & Attendance to Uty of S1 B.Tech/B.Arch	78	Sun	22			Wed	22			Sat	22		
Sat	23			Mon	23			Thu	23			Sun	23		
Sun	24			Tue	24			Fri	24			Mon	24		
Mon	25	Class ends for all other programs, publish attendance	79	Wed	25	Christmas		Sat	25			Tue	25		
Tue	26	Start date for Forwarding IA Marks & Attendance to Uty of all other Programs		Thu	26			Sun	26	Republic Day		Wed	26		
Wed	27	Exam S1/S8 B.Tech, S1 B.Arch Begins		Fri	27			Mon	27			Thu	27		
Thu	28	Last date for uploading Jury Marks (B.Arch)		Sat	28			Tue	28			Fri	28		
Fri	29			Sun	29			Wed	29						
Sat	30			Mon	30	Classes reopens, Reporting S7 B.Arch to College after training		Thu	30						
				Tue	31			Fri	31						



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Sl. No.	Events	Important Dates
ODD SEMESTER (2019-2020)		
1(a)	Commencement of ODD Semester Classes S1 B.Tech, S1 B.Arch	July 22, 2019
(b)	Induction Program for S1 B.Tech	July 22 to Aug 9, 2019
(c)	Commencement of ODD Semester for all other programs	Aug 1, 2019
(d)	Commencement of S1 B.Tech regular class	Aug 12, 2019
2	Course Committee/Class Committee Meeting	Aug 14 - 19, 2019
3	Course selection, Course Registration, Course Mapping	Aug 12 -22, 2019
4	Exam Registration	Sept 17 - Oct 1, 2019
5	Test 1 to be completed	Sept 23, 2019
6	College Level Sports to be completed	Sept 28, 2019
7	Zonal level Sports Fest To be completed	Oct 28, 2019
8	Test 2 to be completed	Nov 6, 2019
9	Course Committee/Class Committee Meeting	Nov 4 -8, 2019
10	Classes Ends for S1 B.Tech/B.Arch and Publish Attendance	Nov 15, 2019
11	Publication of IA Marks of all programs	Nov 18, 2019
12	Submission of IA marks & Attendance by Colleges to University of S1 B.Tech/B.Arch	Nov 19 - 22, 2019
13	Last date for evaluation of Jury(B.Arch)	Nov 21, 2019
14	Classes (EVEN Semester)Ends for all other programs and Publication of Attendance	Nov 25, 2019
15	End Semester Examination S1 B.Tech/B.Arch, S8 B.Tech (Time Table will be published later)	Nov 27, 2019
16	Submission of IA Marks & Attendance by Colleges to University of all other programs	Nov 26 - Dec 2, 2019
17	Last date for uploading of marks of Jury (B.Arch)	Nov 28, 2019
18	Exam S7B.Tech, S7B.Arch, MCA5 and S3 PG Begins (Time Table will be published later)	Dec 4, 2019
19	Exam S3 B.Tech, S3B.Arch, S3BHMCT, MCA3, MCA 7 and S1 PG Begins (Time Table will be published later)	Dec 5, 2019
20	Exam S5 B.Tech, S5B.Arch, S1 BHMCT S1 B.DeS and MCA1 Begins (Time Table will be published later)	Dec 6, 2019
21	Commencement of classess S2 B.Tech/B.Arch	Dec 16, 2019
22	Reporting the college after training by S7 B.Arch students	Dec 30, 2019
23	Jury for the Training: S7 B.Arch	Jan 1-3, 2020
24	Registration by S7 B.Arch students to S8 B.Arch	Jan 6, 2020
25	Commencement of classess for all other programs	Jan 6, 2020

6. CURRICULUM AND SCHEME OF EXAMINATION
B.Tech Degree Course (2019 Scheme)

SEMESTER I

SLOT	COURSE NO.	COURSES	L-T-P	HOURS	CREDIT
A	MAT 101	LINEAR ALGEBRA AND CALCULUS	3-1-0	4	4
B 1/2	PHT 110	ENGINEERING PHYSICS B	3-1-0	4	4
	CYT 100	ENGINEERING CHEMISTRY	3-1-0	4	4
C 1/2	EST 100	ENGINEERING MECHANICS	2-1-0	3	3
	EST 110	ENGINEERING GRAPHICS	2-0-2	4	3
D 1/2	EST 120	BASICS OF CIVIL & MECHANICAL ENGINEERING	4-0-0	4	4
	EST 130	BASICS OF ELECTRICAL & ELECTRONICS ENGINEERING	4-0-0	4	4
E	HUT 101	LIFE SKILLS	2-0-2	4	--
S 1/2	PHL 120	ENGINEERING PHYSICS LAB	0-0-2	2	1
	CYL 120	ENGINEERING CHEMISTRY LAB	0-0-2	2	1
T 1/2	ESL 120	CIVIL & MECHANICAL WORKSHOP	0-0-2	2	1
	ESL 130	ELECTRICAL & ELECTRONICS WORKSHOP	0-0-2	2	1
TOTAL				23/24 *	17

SEMESTER II

SLO T	COURSE NO.	COURSES	L-T-P	HOU RS	CREDI T
A	MAT 102	VECTOR CALCULUS, DIFFERENTIAL EQUATIONS AND TRANSFORMS	3-1-0	4	4
B 1/2	PHT 110	ENGINEERING PHYSICS B	3-1-0	4	4
	CYT 100	ENGINEERING CHEMISTRY	3-1-0	4	4
C 1/2	EST 100	ENGINEERING MECHANICS	2-1-0	3	3
	EST 110	ENGINEERING GRAPHICS	2-0-2	4	3
D 1/2	EST 120	BASICS OF CIVIL & MECHANICAL ENGINEERING	4-0-0	4	4
	EST 130	BASICS OF ELECTRICAL & ELECTRONICS ENGINEERING	4-0-0	4	4
E	HUT 102	PROFESSIONAL COMMUNICATION	2-0-2	4	--
F	EST 102	PROGRAMMING IN C	2-1-2	5	4
S 1/2	PHL 120	ENGINEERING PHYSICS LAB	0-0-2	2	1
	CYL 120	ENGINEERING CHEMISTRY LAB	0-0-2	2	1
T 1/2	ESL 120	CIVIL & MECHANICAL WORKSHOP	0-0-2	2	1
	ESL 130	ELECTRICAL & ELECTRONICS WORKSHOP	0-0-2	2	1
TOTAL				28/29	21

B.Tech Degree Course (Mechanical Engineering) (2016 Scheme)

SEMESTER III:

Course code	Course name	L-T-P	Credits	Exam slot
MA201	Linear Algebra and Complex Analysis	3-1-0	4	A
ME201	Mechanics of Solids	3-1-0	4	C
ME203	Mechanics of Fluids	3-1-0	4	C
ME205	Thermodynamics	3-1-0	4	D
ME210	Metallurgy and Materials Engineering	3-0-0	3	E
HS200/HS210	Business Economics/Life Skills	3-0-0/2-0-2	3	F
ME231	Computer Aided Machine Drawing Lab	0-0-3	1	S
CE230	Material Testing Lab	0-0-3	1	T

Total Credits = 24

Hours: 28/29

Cumulative Credits= 71

SEMESTER IV:

Course Code	Course Name	L-T-P	Credits	Exam Slot
MA202	Probability Distributions, Transforms and Numerical Methods	3-1-0	4	A
ME202	Advanced Mechanics of Solids	3-1-0	4	B
ME204	Thermal Engineering	3-1-0	4	C
ME206	Fluid Machinery	2-1-0	3	D
ME220	Manufacturing Technology	3-0-0	3	E
HS210/HS200	Life Skills/Business Economics	2-0-2/3-0-0	3	F
ME232	Thermal Engineering Lab	0-0-3	1	S
ME230	Fluid Mechanics and Machines Lab	0-0-3	1	T

Total Credits = 23

Hours 27/28

Cumulative Credits= 94
130

SEMESTER V:

Course Code	Course Name	L-T-P	Credits	Exam Slot
ME301	Mechanics of Machinery	3-1-0	4	A
ME303	Machine Tools and Digital Manufacturing	3-0-0	3	B
ME305	Computer Programming and Numerical Methods	2-1-0	3	C
EE311	Electrical Drives and Control for Automation	3-0-0	3	D
HS300	Principles of Management	3-0-0	3	E
ME3xx	Elective 1	3-0-0	3	F
ME341	Design Project	0-1-2	2	S
EE335	Electrical and Electronics Lab	0-0-3	1	T
ME331	Manufacturing Technology Lab 1	0-0-3	1	U

Total Credits = 23

Hours: 28

Cumulative Credits= 117

Elective 1

1. ME361 Advanced Fluid Mechanics
2. ME363 Composite Materials and Mechanics
3. ME365 Advanced Metal Casting
4. ME367 Non-Destructive Testing
5. ME369 Tribology
6. ME371 Nuclear Engineering
7. ME373 Human Relations Management

SEMESTER VI:

Course Code	Course Name	L-T-P	Credits	Exam Slot
ME302	Heat and Mass Transfer	3-1-0	4	A
ME304	Dynamics of Machinery	2-1-0	3	B
ME306	Advanced Manufacturing Technology	3-0-0	3	C
ME308	Computer Aided Design and Analysis	3-0-0	3	D
ME312	Metrology and Instrumentation	3-0-0	3	E
ME3xx	Elective 2	3-0-0	3	F
ME332	Computer Aided Design and	0-0-3	1	S

	Analysis Lab			
ME334	Manufacturing Technology Lab II	0-0-3	1	T
ME352	Comprehensive Exam	0-1-1	2	U

Total Credits = 23

Hours: 27

Cumulative Credits= 140

Elective 2

1. ME362 Control System Engineering
2. ME364 Turbo Machinery
3. ME366 Advanced Metal Joining Technology
4. ME368 Marketing Management
5. ME372 Operations Research
6. ME374 Theory of Vibration
7. ME376 Maintenance Engineering

SEMESTER VII:

Course Code	Course Name	L-T-P	Credits	Exam Slot
ME401	Design of Machine Elements 1	3-1-0	4	A
ME403	Advanced Energy Engineering	3-0-0	3	B
ME405	Refrigeration and Air Conditioning	2-1-0	3	C
ME407	Mechatronics	3-0-0	3	D
ME409	Compressible Fluid Flow	2-1-0	3	E
ME4xx	Elective 3	3-0-0	3	F
ME451	Seminar and Project Preliminary	0-1-4	2	S
ME431	Mechanical Engineering Lab	0-0-3	1	T

Total Credits = 22

Hours: 27

Cumulative Credits= 162

Elective 3

1. ME461 Aerospace Engineering
2. ME463 Automobile Engineering
3. ME465 Industrial Hydraulics

4. IE306 Supply Chain and Logistics Management
5. ME467 Cryogenic Engineering
6. ME469 Finite Element Analysis
7. ME471 Optimization Techniques

SEMESTER VIII:

Course Code	Course Name	L-T-P	Credits	Exam Slot
ME402	Design of Machine Elements 11	3-0-0	3	A
ME404	Industrial Engineering	3-0-0	3	B
ME4xx	Elective 4	3-0-0	3	C
	Elective 5(Non Departmental	3-0-0	3	D
ME492	Project		6	

Total Credits = 18

Hours: 30

Cumulative Credits= 180

Elective 4

1. ME462 Propulsion Engineering
2. ME464 Robotics and Automation
3. ME466 Computational Fluid Dynamics
4. ME468 Nanotechnology
5. ME472 Failure Analysis and Design
6. ME474 Micro and Nano Manufacturing
7. ME476 Material Handling and Facilities Planning

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