

DEPARTMENT OF MECHANICAL ENGINEERING

Accredited by Institution of Engineers (India)

Saintgits College of Engineering

Kottukulam Hills, Pathamuttom P O, Kottayam

Department Handbook
2016– 17

Personal Profile

Name :
Designation :
Contact No. :
E-mail ID :

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1. ABOUT MECHANICAL ENGINEERING

Mechanical Engineering is a versatile branch encompassing the dimensions of all other engineering branches viz. Structural Engineering, Electrical Engineering, Robotics Engineering, Mechatronics, and Energy Science & Engineering. The Mechanical Technology which drives various machines around the globe is undoubtedly a rudimentary one. In the present scenario Mechanical Engineering incorporates and makes use of the developments in the Electronics and Information Technology field in order to reign as the most productive and beneficial realm of Engineering.

2. ABOUT THE DEPARTMENT

The Mechanical Engineering Department of SAINTGITS was established in the year 2002 with an intake of 60 students. The four year B.Tech course consists of 8 semesters integrated with theoretical and practical sessions. Currently the yearly intake is 120 students and they are allocated in 2 batches, ME- A & ME- B. M.Tech course in Machine Design was started in 2008 with a yearly intake of 18 students. Add-on courses on modelling and analysis software are being conducted for the UG students. In addition, coaching for GATE and other competitive examinations is also conducted by the department for pre-final and final year students.

3. VISION, MISSION, PEOs & POs

3.1 Vision

Transforming young minds into motivated, quality aware and environment - conscious technocrats.

3.2 Mission

Educating the students to excel professionally by:

- Providing facilities and environment conducive to a high quality education.
- Cultivating the spirit of entrepreneurship, applied research and responding effectively to the needs of the industry.
- Emphasizing the values of leadership, contributing to economic development, protecting the environment and improving the quality of human life.

3.3 Programme Educational Objectives (PEOs)

After 3 to 5 years of completion of the graduation, our graduates will be able to:

1. Enhance Professional Capability - They will apply mathematical, scientific and engineering principles for analyzing and solving mechanical engineering problems.
2. Excel technically and foster continued learning - They will be competent to design and develop meaningful solutions for efficient utilization of man, machine, money and materials, using modern techniques and tools and nurture continuous learning.
3. Address Social, Ethical and Environmental Concerns - They will deal with social, ethical and environmental concerns in technological advancements.
4. Enrich Essential Management Skills - They will augment management skills along with teamwork and effective communication for successful completion engineering projects.

3.4 Programme Outcomes (POs)

POs describe what students are expected to know or be able to do by the time of graduation from the program.

1. Engineering Knowledge-Apply knowledge of mathematics, science, and engineering fundamentals to the conceptualization of science and engineering models.
2. Problem Analysis- Identify, analyzes, formulates and research literature to interpret data for Mechanical Engineering problems using first principles of mathematics and engineering sciences.
3. Design/Development of solutions- Design solutions for Mechanical Engineering problems and develop systems, components or processes that meet specified requirements.
4. Conduct investigations of complex problems- Conduct investigations, analyses and interpretation of data, and synthesis of information to arrive at valid conclusions to complex Mechanical Engineering problems.
5. Modern Tool Usage- Demonstrate skills to select and apply modern engineering tools, understanding the constraints, using appropriate techniques.
6. Engineer & Society- Demonstrate understanding of the societal and legal issues and the consequent responsibilities relevant to engineering practice.
7. Environment & Sustainability- Understand the impact of engineering solutions in an environmental context and demonstrate knowledge of and need for sustainable development.
8. Ethics- Follow professional ethics with consequent responsibilities relevant to norms of engineering practice.
9. Individual & Team Work- Perform effectively as an individual, and as a member or leader in diverse teams, in multi-disciplinary settings as well.

10. Communication- Communicate technical ideas effectively with the engineering community and society by oral and written means.
11. Project Management and Finance- Manage a project effectively, understanding the limitations of general business practices including risk and finance management.
12. Life-long Learning- Engage in independent and life-long learning to meet global technological challenges.

3.5 Programme Specific Outcomes (PSOs)

1. Utilize their knowledge in Mechanical engineering on an applied basis.
2. Apply the learned principles to the analysis, design, development and implementation of more advanced mechanical systems or processes involving modern engineering tools.
3. Engage in lifelong learning and communicate technical ideas effectively with the engineering community, considering risk and finance management

4. ACADEMIC COMMITTEES:

4.1 Department Advisory Board (DAB)

The DAB consists of representatives from the management, senior faculty members, program co-ordinator, industry resource persons, alumni, parent representatives and professional body representatives.

DAB is the body authorized to finalize major academic policy decisions of the department. DAB meeting is convened once in a year, preferably in the month of June.

4.1 Members of Department Advisory Board (DAB)

Sl No	Name	Designation	Organization	Remarks
1	Er. Punnoose George	Executive Chairman	Saintgits Group of Institutions	Management
2	Lt.Col. John Jacob	COO & Associate Provost	Saintgits Group of Institutions	
3	Dr. M.C.Philipose	Principal	Saintgits College of Engg	Head of Institution
4	Dr. Sreejith.C.C	Professor & HoD	Mechanical Engg Department, SCE	PAC Member
5	Er. George.T.S	U G Co-ordinator	Mechanical Engg Department, SCE	
6	Dr. M.D.Mathew	Professor & Dean (PG & RS)	Mechanical Engg Department, SCE	
7	Dr. Jason Cherian Isaac	Professor	Mechanical Engg Department, SCE	

8	Prof. Muruganantham.P	Associate Professor	Mechanical Engg Department, SCE	
9	Prof. Hari.G	Professor	Civil Engg Department, SCE	Other Department
10	Dr. Roji George	Dean	Saintgits Institute of Management	Senior Faculty
11	Dr. George Issac	Principal & Professor	Federal Institute of Science & Tech, Angamaly	Academician from institution
12	Dr. Rijo Jacob Thomas	Associate Professor	TKM College of Engg, Kollam	
13	Er. Saji Varghese	General Manager	MRF Kottayam	Person from Industry
14	Er. P Ramesh	Manager - Operation & Maintenance	NTPC Ltd, Kayankulam	
15	Er. Shankar.H	Assistant Manager	VKL Spices, Alappuzha	
16	Er. Nidhi.M.B	National Executive Council Member, ISTE New Delhi	Mar Baselios College of Engg & Technology, Trivandrum	Professional Body Representative
17	Mr. Antony Joseph	Head- Corporation Relations	Saintgits Group of Institutions	Placement Representative
18	Rev. George Thomas	Vicar	Bethlehem Marthoma Church, Kollad	Social Representative
19	Er. Felix Isidore	Executive Engineer	Department of Irrigation, Kerala	Parent representatives
20	Mr. Kurian P Thomas	Joint Registrar (Retd)	M G University, Kottayam	
21	Er. Sherin George	Project Engineer	CINZAC Thermax TCA, Kochi.	Alumni, 2011-2015
22	Er. Mathew Joseph	P G Student	GEC, Thrissur	Alumni, 2010-2014
23	Er. Sajith Sunder	Managing Director	Entrepreneur	Alumni, 2009-2013
24	Er. Gibu Tom Aby	Assistant Plant Manager	Paragon, Kottayam	Alumni, 2008-2012

4.2 Programme Assessment Committee (PAC)

Is the apex body at the department level comprising of senior faculty members, Program Co-ordinator and Stream Co-ordinators.

4.2 Programme Advisory Committee (PAC)

1	Dr. Sreejith.C.C	Professor & Head of Department
2	Dr. M.D.Mathew	Professor, Dean (PG & RS)
3	Dr. Jason Cherian Issac	Professor
4	Prof. Muruganantham.P	Associate Professor & Associate Registrar
5	Er George.T.S	Program Co-ordinator (UG)
6	Prof. G.Anil Kumar	Stream Co-ordinator (Industrial Stream)
7	Er. Jenny John Mattam	Chief Co-ordinator (Staff Advisory system) and Finance Co-ordinator
8	Er. Cherian Paul	Stream Co-ordinator (Production Stream)
9	Er. Chacko Preno Koshy	Stream Co-ordinator (Design Stream)
10	Er. Vineeth.V.K	Stream Co-ordinator (Thermal Stream)

Department Strength

Faculty	37	Professor -4 , Associate Professor - 2, Assistant Professor - 31
Technical Staff	9	Lab Instructor - 3, Trade Instructor - 4, Machinist - 1, Trades Man - 1
UG Students		[S1 - , S3/4 - 126, S5/6 - 126, S7/8 -125]
PG Students		[S1 - , S3 -3]

5. DEPARTMENT ADMINISTRATION



Professor & Head

Dr. Sreejith C C
Ext: 222 Mobile:9446321253
E-Mail:hodme@saintgits.org
sreejith.cc@saintgits.org

Dr. Sreejith.C.C secured his PhD in Fluidized Bed Gasification and Combustion of renewable fuels from National Institute of Technology Calicut (NITC). He is an M. Tech holder in Refrigeration and Air Conditioning possessing 10 years teaching and 4 years research experience. His research areas of interest include Energy System Optimization, Modelling of Multi-Phase Flows, Computational Fluid Dynamics, I C Engine Simulation, Absorption/Adsorption Refrigeration and Nano-additives in I C Engine Fuels.

He teaches U G subjects under thermal stream like Thermodynamics, I C Engines & Combustion, Refrigeration & Air conditioning, Thermal Engineering and Cryogenics besides basic subjects such as Fluid Mechanics and Hydraulic Machines. He has to his credit, 12 journal papers in peer reviewed International Journals like Fuel Processing Technology, Energy (Elsevier), International Journal of Sustainable Energy, International Journal of Green Energy, International Journal of ambient Energy (Taylor & Francis), Biomass Conversion & Bio-refinery, International Journal of Energy & Environmental Engineering (Springer). He has presented 8 conference papers in reputed International Conferences organized by IIT Chennai, IIT Kharagpur, NIT Trichy and NIT Calicut.

He is a regular reviewer of International Journal of Green Energy (Taylor & Francis) and Energy & Fuels (American Chemical Society, ACS). He is in the editorial panel of journals such as IRSN Renewable Energy (Hindawi), IRSN Thermodynamics (Hindawi) and Chemical & Environmental Engineering Advances. He is a member of the state level managing committee (SMC) of the ISTE, Kerala Section.

6. TEACHING FACULTY

Sl No.	NAME	DESIGNATION	CONTACT	E-MAIL	SEATING	EXTN
1	Dr. Sreejith C C	Professor & Head	9446321253	sreejith.cc@saintgits.org	Main Staff Room	222
2	Dr. M.D Mathew	Professor and Dean (PG & RS)	9496216954	dean.pg@saintgits.org	Administrative Block	505
3	Dr. Jason Cherian Issac	Professor	9447733536	jason.cherian@saintgits.org	Ground Floor	228
4	Prof. Sajan Thomas	Professor	9847418708	sajan.thomas@saintgits.org	Main Staff Room	225
5	Er. Muruganatham P	Associate Professor	9995554466	muruganatham.p@saintgits.org	Administrative Block	504
6	Prof. G Anil Kumar	Associate Professor	9447475484	anilkumar.g@saintgits.org	Main Staff Room	226
7	Er. Vinay Mathew John	Assistant Professor	9562474851	vinay.mathew@saintgits.org	Ramanujam Block	
8	Er. Jenny John Mattam	Assistant Professor	9947130129	jenny.john@saintgits.org	Main Staff Room	221
9	Er. Francis Augustine Joseph	Assistant Professor	9447780190	francis.augustine@saintgits.org	Main Staff Room	233
10	Er. Cherian Paul	Assistant Professor	9446093480	cherian.paul@saintgits.org	Main Staff Room	223
11	Er. Chacko Preno Koshy	Assistant Professor	9496849501	chacko.preno@saintgits.org	Third Floor	229
12	Er. Sivasubramanian P	Assistant Professor	9746251316	sivasubramanian.p@saintgits.org	Second Floor	
13	Er. Parvathy Venugopal	Assistant Professor	9645554414	parvathy.venugopal@saintgits.org	Second Floor	
14	Er. Sajeev A	Assistant Professor	9497555873	sajeev.a@saintgits.org	Main Staff Room	233
15	Er. Manoj Balakrishnan	Assistant Professor	9746613228	manoj.balakrishnan@saintgits.org	Main Staff Room	233
16	Er. Sailesh K S	Assistant Professor	8281203835	sailesh.ks@saintgits.org	Main Staff Room	233
17	Er. Philip Jacob Perakathu	Assistant Professor	8547113377	philip.jacob@saintgits.org	Ground Floor	228
18	Er. George T S	Assistant Professor	8547553377	george.ts@saintgits.org	Main Staff Room	233
19	Er. Tom Mathew	Assistant Professor	9496321244	tom.mathew@saintgits.org	Main Staff Room	232
20	Er. Tobin Thomas	Assistant Professor	9447789472	tobin.thomas@saintgits.org	Main Staff Room	232
21	Er. Liju Mathew Alexander	Assistant Professor	9446683056	liju.mathew@saintgits.org	Main Staff Room	232
22	Er. Arun K Varghese	Assistant Professor	9744254337	arun.k@saintgits.org	Main Staff Room	232
23	Er. Nandu S	Assistant Professor	9495732273	nandu.s@saintgits.org	Main Staff Room	231
24	Er. Bibin Varkey	Assistant Professor	9744985939	bibin.varkey@saintgits.org	Third Floor	229

25	Er. Davis Wilson	Assistant Professor	9846398091	davis.wilson@saintgits.org	Main Staff Room	231
26	Er. Sreejith R	Assistant Professor	9496333622	sreejith.r@saintgits.org	Main Staff Room	231
27	Er. Vineeth V K	Assistant Professor	9846284836	vineeth.vk@saintgits.org	Main Staff Room	231
28	Er. Nisthul G	Assistant Professor	9895825143	nisthul.g@saintgits.org	Main Staff Room	231
29	Er. Harikrishnan K R	Assistant Professor	9495377593	harikrishnan.k@saintgits.org	Third Floor	229
30	Er. Geo Sebastian	Assistant Professor	8547956714	geo.sebastian@saintgits.org	Main Staff Room	232
31	Er. Sreekumar C	Assistant Professor	9567386261	sreekumar.c@saintgits.org	Main Staff Room	232
32	Er. Easwaran Nampootheri	Assistant Professor	9446497892	easwaran.nk@saintgits.org	Second Floor	
33	Er. Jerin George	Assistant Professor	9497325630	jerin.gp@saintgits.org	Main Staff Room	233
34	Er. Jermy Varghese Thomas	Assistant Professor	9495953836	jermy.vt@saintgits.org	Ground Floor	228
35	Er. Visant PV	Assistant Professor	9946347587	visant.pv@saintgits.org	Main Staff Room	231
36	Er. Faizal K	Assistant Professor	8129261686	faizal.k@saintgits.org	Main Staff Room	231
37	Er. George John	Assistant Professor	9400741288	george.j@saintgits.org	Main Staff Room	231

6.1 TECHNICAL STAFF

1	Mr. Jacob Varghese	Lab Instructor	9495544568	jacob.varghese@saintgits.org	Machine Tool Lab	641
2	Mr. U. Joseph	Trade Instructor	9544737796	joseph.u@saintgits.org	FM & HM Lab	671
3	Mr. Jose.N.J	Trade Instructor	9446388242	jose.nj@saintgits.org	Machine Tool Lab	641
4	Mr. Jose Chakkalackal	Trade Instructor	9447850503	jose.c@saintgits.org	Machine Tool Lab	641
5	Mr. Baiju Kurian	Trade Instructor	9497819020	baiju.kurian@saintgits.org	Heat Transfer Lab	631
6	Mr. Rajeev.K.A	Lab Instructor	9495543604	rajeev.ka@saintgits.org	Mechanical Engg Lab	632
7	Mr. Benny.M.C	Machinist	9446909477	benny.mc@saintgits.org	Machine Tool Lab	641
8	Mr. Nidheesh.K.K	Trades Man	9946007093	nidheesh.kk@saintgits.org	Heat Engines Lab	661
9	Mr. Vipinkumar P Gopinath	Lab Instructor	9995083875	vipinkumar.p@saintgits.org	Research Lab	

7. LABORATORIES & FACULTY IN-CHARGE

LAB	FACULTY IN-CHARGE	TECHNICAL STAFF
Chief Lab Co-ordinator	Er. Philip Jacob Perakathu	
FM & HM LAB	Prof. Sajan Thomas	Mr. UJoseph
Machine Tool Lab	Er. Harikrishnan.K.R	Mr. Jacob Varghese, Mr. Jose.N.J, Mr. Benny.M.C
CAD LAB	Er. Francis.A.J	
CNC Lab	Er. George.T.S	Mr. Benny.M.C
Heat Engines Lab	Er. Nandu.S	Mr. Nidheesh.K.K
Adv. Machine tool lab	Er. Arun K Varghese	Mr. Jacob Varghese , Mr. Benny.M.C, Mr. Jose.C
Heat Transfer lab	Er. Geo Sebastian	Mr. Baiju Kurian
Mechanical Engg. Lab	Er. Manoj Balakirishnan	Mr. Rajeev.K.A
Measurements lab	Er. Sailash.K.S	Mr. Rajeev.K.A
Research lab	Er. Easwaran Namboothiry	Mr. Vipinkumar P Gopinath
Project lab	Er. Bibin Varkey	Mr. Vipinkumar P Gopinath
PG Lab	Er. Chacko Preno Koshy	Mr. Rajeev.K.A

8. STAFF ROOMS

STAFF ROOM	ROOM No.
Main Staff Room (First Floor)	CLC 201
Staff Room I (Ground Floor)	CLC 104
Staff Room II (Second Floor)	CLC 304
Staff Room III (Third Floor)	CLC 405

8.1 CLASS ROOMS

BATCH	ROOM No.
S1, S2 ME A	AB 211
S1, S2 ME B	AB 108
S3, S4 ME A	CLC 301
S3, S4 ME B	CLC 101
S5, S6 ME A	CLC 302
S5, S6 ME B	CLC 102
S7, S8 ME A	CLC 303
S7, S8 ME B	CLC 103

First Year M.Tech	CLC 402
Second Year M.Tech	CLC 403

9. VARIOUS CO-ORDINATORS

9.1. Technical Stream Co-ordinators

Responsibilities of Stream Co-ordinators are:

1. Review of the delivery of the courses under the stream.
2. Methods to improve the content delivery in lecture class.
3. Practices to be followed in the laboratories.
4. Requirements (infrastructure and others) for laboratories.
5. Research work being carried out/proposed in the respective stream.
6. Purchase and utilization of relevant software under the stream.
7. Suggestions in devising/framing question papers.
8. CO and PO attainment of the courses under the stream and suggesting remedial actions.
9. Regular monitoring of the syllabus coverage of the courses (this is monitored by the respective CSA also)
10. Ensuring the utilization of facilities (academic and infrastructure) under the stream.
11. Participation of the faculty under the stream in career refreshment courses/FDPs/Seminars/Workshops etc.
12. Organizing students and staff development programs under the stream.
13. Patronage of professional bodies under the stream.
14. Review of the projects (main and semester) under the stream.
15. Orientation to the faculty member under stream with regards to academic matters.
16. Commencement of new courses for students.
17. Organizing industry involved lecturers/ sessions for students.
18. Other assignments/responsibilities entrusted by the HOD time to time.

9.1 STREAM CO-ORDINATORS

Sl No	Stream	Co-ordinator
1	Industrial Stream	Prof. G.Anilkumar
2	Production Stream	Er. Cherian Paul
3	Design Stream	Er. Chacko Preno Koshy
4	Thermal Stream	Er. Vineeth.V.K

9.2 P G Programme Co-ordinator

Major responsibilities PG Co-ordinator are:

1. Coordinates the academic activities of the post graduate program in Machine Design.
2. Monitor the course delivery and make suggestions for improvement.
3. Ensure the progress of the course delivery according to the lesson plan & course handouts.
4. Ensure proper mentoring system for PG students by coordinating the staff advisors of various PG classes.
5. Conduct the internal examinations and finalize the internal marks.
6. Ensure the quality of the Master Thesis work and manuscripts extracted from the thesis are published in journals and conferences.
7. Conduct the bi-weekly meeting of the post graduate students and discuss the academic progress.
8. Ensure the adherence to the PG academic calendar.
9. Coordinate the preparation and communication of the project proposals formulated by the students & the respective guides for external funding.
10. Delegate the project advisory ship and guarantee the timely completion of the project/thesis work.
11. Attend the PG cluster meeting and provide appropriate direction to the PG course co-ordinator and thesis guides based on the decisions taken in the meeting.
12. Attend the college level PG Co-ordinators' meeting by representing the department and make suggestions for improvement in PG academic curriculum.
13. Provide adequate and appropriate direction to the faculty members handling classes for PG in line with institute policy.
14. Ensure the required technical quality of the PG academic program by adopting the necessary measures and taking judicious decisions.
15. Any other PG program related responsibility entrusted by the HOD from time to time.

PG Co-ordinator

Er. Sailesh K S

9.3. Chief Co-ordinator (Staff Advisory System)

The Chief Co-ordinator (Staff Advisory System) will coordinate the activities of Chief Staff Advisors (CSAs) by providing appropriate directions and instructions. The Chief Staff Advisors will report to the Chief Co-ordinator regarding the student mentoring activities and the related academic activities of the respective batch.

Major responsibilities of Chief Co-ordinator (Staff Advisory System) are:

1. Direct and delegate the Chief Staff Advisors (CSAs) to carry out their assigned responsibilities and monitor the progress.
2. Ensure the systematic upkeep and maintenance of the student profiles in updated condition by providing suitable directions to the CSAs.
3. Ensure the conduct of UG student mentoring system with utmost flawlessness and diligence.
4. Convene the bi-weekly meeting of the CSAs and review the effectiveness of the mentoring system.
5. Convene the bi-weekly meeting of the student representatives (total 16 in number) and provide proper directions to them and address the grievances of the students (personal as well as academic).
6. Ensure the attainment of the minimum required attendance level (live) for each student of the department and recommend for remedial measures to the respective CSAs, if find not at the satisfactory level.
7. Make arrangements for making available the weekly consolidated attendance sheet to the CSAs so as to publish the same on class NBs and Main NB.
8. Update and maintain of the registers pertaining to the staff advisory system in the department.
9. Direct the CSAs to carry out the allotted work in time with regard to regular staff advisory responsibility.
10. Identify the weak students based on the series test marks and weekly test marks (to be provided by the CSAs) and suggest for remedial measures to the CSAs and monitor the same.
11. Work in close coordination with 'Student Development Co-ordinator' of the department who will make arrangements for the students (by proper motivation) to participate in various co-curricular activities in and outside the campus and properly record them.
12. Play an active and effective role between the HOD and CSAs with regard to the implementation of the college level as well as department level decisions which require the active engagement of the staff advisors.
13. Recommend for remedial tests/remedial classes/special coaching etc. for the weak students and guarantee the improvement in the academic performance by means of continuous monitoring.
14. Recommend for the appropriate measures to improve the academic standards of the students (including the university examination results) which demands successive and continuous fine-tuning of the student mentoring system by providing individual attention.

15. Any other related responsibility which comes under the purview of staff advisory system as per the direction of the HOD, in resonance with the requirements/policy at the college level.

Chief Co-ordinator (SAS)

Er. Jenny John Mattam

9.4. Chief Laboratory Co-ordinator

Chief Laboratory Co-ordinator will coordinate the laboratory related matters by properly guiding, directing and advising the faculty in charge of labs.

Roles and Responsibilities of Chief Laboratory Co-ordinator are:

1. Reporting authority of all the faculty members in charge of various laboratories under the department, with regard to academic matters related to the concerned lab.
2. The Chief laboratory Co-ordinator, in consultation with HOD, shall issue appropriate directions and guidelines to the faculty member(s) in charge of labs for timely processing and completion of the regular academic work.
3. Shall take adequate and proper initiatives to purchase/maintain the equipments/instruments required in each lab, which will be processed by the concerned faculty member in charge of the laboratory.
4. Ensure the systematic upkeep of all files, documents and registers, pertaining to each laboratory, in updated condition so as to present the same before the various inspection committees/teams and also before HOD/Principal/COO as and when required. Proper directions will be issued to the faculty members in charge of laboratories accordingly.
5. Oversee and monitor the conduct of lab examinations (both internal and university) by intimating and informing the concerned faculty members handling the laboratory classes.
6. Devise and implement appropriate plans and strategies with the objective of enhancing the academic quality with regard to training and learning exercise in the laboratories.
7. Supervise the equipment/instrument calibration process in each lab by urging the department laboratory calibration in charge and the other associated faculty members.
8. Entrusted to take proper and timely decision with regard to any other matter related to training / purchase / audit / HR management / file keeping / maintenance / repair of laboratory equipment / personal etc. by properly coordinating the faculty in charge of labs, in consultation with HOD.

Chief Laboratory Co-ordinator

Er. Philip Jacob Perakathu

10. CLASS ADVISORY SYSTEM

Each class is assigned with a Chief Staff Advisor (CSA) or Teacher in Charge. To give individual attention and help the students in matter of personal and academic importance, a class of 60/63 is again divided into three equal groups of 20/21 each under a Staff Advisor. The students can seek for both personal and academic advices of Staff Advisors. Besides, two students are elected as the class representatives.

Major responsibilities of Chief Staff Advisor (CSA) are:

1. Co-ordination of the staff advisors for maintaining the accreditation-related files.
2. Consolidation of fortnightly attendance and publishing the same.
3. Reporting the activities and progress of the class to the respective Head of the Department.
4. Intimating the parents about the result of Series Examinations, University Examinations, PTA meetings etc.
5. Class monitoring, in order to get the feedback from the students regarding the various subjects taught during the semester.
6. Monitor and consolidation of the duty leaves for internal programme and forward the same to the Vice - Principal / Principal.
7. Convene the meeting of staff advisors and reporting to Head of Department.
8. Conduct class committee meetings / course committee meetings of the class.
9. Any other academic responsibilities entrusted by the Principal/ HOD from time to time.

Major responsibilities of Staff Advisor (SA) are:

1. A friend, philosopher and advisor to the student.
2. Meeting the student once in a fortnight at least in normal circumstances.
3. Interaction with parents on academic and non-academic matters pertaining to the students in his/her group.
4. Ensuring the attendance of the student in class and general and total behavior including adherence to the dress code.
5. Grievance redressal of the students.
6. Maintenance of the student profile, which include the progress of the student since his/her inception in the first year.
7. Reporting to the Head of the Department in the fortnightly appraisal form for the first and second half of the month, through the CSA and Chief Co-ordinator (Staff Advisory System).
8. Motivating the students for co-curricular and extra-curricular activities.

9. Identifying the strength and weakness of students and timely action for special attention can be suggested to the Head of the Department.
10. Updating the attendance and marks in the website.
11. Any other student mentoring related duties assigned by the CSA with regard to the mentees under the SA.

10.1 List of Chief Staff Advisors and Advisors

Class	Chief Staff Advisor	Staff Advisors	Roll Nos.
S1/S2 A	Er.Chakco Preno Koshy	Er. Chakco Preno Koshy	01 - 21
		Er. Manoj Balakrishnan	22 - 42
		Er. Harikrishnan.K.R	43 - 62
S1/S2 B	Er.Arun K Varghese	Er. Arun K Varghese	01 - 21
		Er. Sreekumar.C	22 - 42
		Er. Faizal.K	43 - 63
S3/S4 A	Er.Geo Sebastian	Er. Tobin Thomas	01 - 21
		Er. Geo Sebastian	22 - 42
		Er. Visant.P.V	43 - 63
S3/S4 B	Er.Philip Jacob Perakathu	Er. George John	01 - 21
		Er. Sivasubramanian.P	22 - 42
		Er. Philip Jacob Perakathu	43 - 63
S5/S6 A	Er. Sreejith.R	Er. Nisthul.G	01 - 21
		Er. Easwaran Namboothiri	22 - 42
		Er. Davis Wilson	43 - 63
S5/S6 B	Er. Nandu.S.P	Er. Jermy Varghese Thomas	01 - 21
		Er. Nandu.S.P	22 - 42
		Er. Vinay Mathew John	43 - 63
S7/S8 A	Er. Bibin Varkey	Er. Liju Mathew Alexander	01 - 21
		Er. Sajeev.A	22 - 42
		Er. Cherian Paul	43 - 63
S7/S8 B	Er. Vineeth.V.K	Er. Francis Augustine Joseph	01 - 21
		Er. Parvathy Venugopal	22 - 42
		Er. Jerin George	43 - 63
S1M.Tech	Er Sailesh.K.S	P G Co-ordinator	
S3M.Tech	Er Sailesh.K.S	P G Co-ordinator	

Roles of Class Representative:

1. To make sure that the classroom, black-board, notice board, curtains etc. are maintained properly. Besides, lights and fans should be switched off when not in use.
2. To report any grievances of the class to the respective Chief Staff Advisor.
3. Any other responsibility entrusted by the CSA with respect to academic and co-curricular activities.

11. STUDENT REPRESENTATIVES**11.1 List of Student Class Representatives**

CLASS	Name of Student	Contact No.
S1, S2 ME-A		
S1, S2 ME-B		
S3, S4 ME A	Akshay M Kunnirickal	9446355160
	Aishwariya Ashok	8547212204
S3, S4 ME B	Joel George	9495873262
	Sravya G P	9447580234
S5, S6 ME A	Amal Krishnan	9961965336
	Anantha Krishnan S	9544570968
S5, S6 ME B	Joel T Varghese	9447703954
	Ligin Jacob Abraham	9446437830
S7, S8 ME A	Amal Abraham	8547390513
	Joel Jacob	9895755498
S7, S8 ME B	Rohin T George	9995067552
	Nandakrishnan	8129420013
S1 M.Tech		
S3 M.Tech	Jibin T Philip	7034402286

11.2. List of Student Placement Representatives

CLASS	Name of Student	Contact No.
S3, S4 ME A	Abhishek Anil	8893707950
	Anto Francis	9497150260
S3, S4 ME B	Pratish Rajan	9947893358
	Muhammed Suhail	8547575299
S5, S6 ME A	Febin P Sahib Nazeer	8891027850
	Jiddu Krishnan D	9526675663
S5, S6 ME B	Sachin Cherian Paulose	9562561472
	Nithin Berny	8547215759
S7, S8 ME A	Albin Thomas	9645597520
	Daniel Rojoy	7558065223
S7, S8 ME B	Vaisakh Padmakumar	9400085586
	Sandeep M Jayaram	8893948281

12. DEPARTMENTAL RESPONSIBILITIES OF FACULTY MEMBERS

PG Co-ordinator	Er. Sailesh.K.S
UG Co-ordinator	Er. George.T.S
NBA Co-ordinator	Er. George.T.S
Chief Co-ordinator(Staff Advisory System)	Er. Jenny John Mattam
Chief Lab Co-ordinator	Er. Philip Jacob Perakathu
Staff Secretary& Treasurer	Er. Tobin Thomas
Association Staff in-charge	Er. Sreejith.R
ISO Co-ordinator	Er. Sajeev.A
SAE collegiate club	Er. BibinVarkey
SAE BAJA Faculty	Er. Bibin Varkey, Er. Arun K Varghese Er. Jermy Varghese Thomas
PG Seminar & Project Co-ordinator	Er. Sailesh.K.S
UG Project Co-ordinator	Er. Vineeth.V.K
UG Seminar Co-ordinator	Er. Jermy Varghese Thomas
Semester Project Co-ordinator	Er. Nisthul.G
Series Exam Committee Members	
1. MG University	Er. Sivasubramanian.P, Er. Sreejith.R
2. KTU	Er. G.Anilkumar, Er. Sajeev.A
University Exam Committee Members	
3. MG University	Er. Sailesh.K.S, Er. Sivasubramanian.P
4. KTU	G Anilkumar, Er. Sajeev.A

Weekly Test Committee	Er. Davis Wilson (Convener) Er. Sreekumar.C, Er. Faizal.K
Library in charge	Er. Vineeth.V.K
Add-on Course Co-ordinator	Er. Arun K Varghese
GATE Coaching Co-ordinator	Er. Bibin Varkey
Faculty Tour Co-ordinator	Er. Tom Mathew
Technical talks for students	Stream Co-ordinators
Teaching Documents	Er. Nidheesh.K.K
Placement Representative	Er. Jermy Varghese Thomas Er. Vinay Mathew John
NAAC Co-ordinator	Er. Cherian Paul
SCIE Advisors	Er. Vinay Mathew John, Er. Visant P.V
PTA Executive Committee Member	Er. Parvathy Venugopal
Industry / NGO tie-ups	Stream Co-ordinators
Contact person with HR Department	Er. Nisthul.G
Editor, Dept. Hand Book	Er. Sivasubramanian.P
Editor, Dept. Newsletter	Er. Manoj Balakrishnan
Editor, Dept. Technical Magazine	Er. Sajeev.A
Time Table Co-ordinator	Er. Liju Mathew Alexander
Dept. Infrastructure in Charge	Er. Davis Wilson
In charge (Dept. notices / Dept. NB and related information)	Er. Nandu.S
Website Updation In-charge	Er. Nisthul.G
Moodle Co-ordinator & Auto Club	Er. Faizal.K
Alumni Co-ordinator	Er. Tobin Thomas
IIT/ Amrita Virtual Lab Co-ordinator	Er. Jiju V Elias
SMS Controller	Er. Nandu.S
NSS Tech Cell Representatives	Er. Davis Wilson
Online Attendance Co-ordinator	Er. Sreekumar.C
Knowledge Enhancement Programme (KEP) Co-ordinator	Er. Manoj Balakrishnan
QEEE Co-ordinator	Er. Francis Augustine Joseph
Campus Management Software In-charge	Er. Cherian Paul Er. Francis Augustine Joseph
Finance Co-ordinator	Er. Jenny John Mattom
KTU Audit Cell Member	Prof. Sajan Thomas
Department Blog	Er. Jerin George

ACCREDITATION TEAM**NBA Criterion Co-ordinators**

Er. George.T.S (Criterion 1)
 Er. Parvathy Venugopal (Criterion 2)
 Dr. Jason Cherian Issac & Er. Manoj
 Balakrishnan (Criterion 3)
 Er. Tom Mathew (Criterion 4)
 Er. Nisthul.G (Criterion 5)
 Er. Davis Wilson (Criterion 6)
 Dr. Sreejith.C.C (Criterion 7)
 Er. Easwaran Namboothiry (Criterion 8)
 Er. Liju Mathew Alexander (Criterion 9)
 Er.Jenny John Mattam (Criterion 10)

13. RULES AND REGULATIONS**13.1 College Timings**

Period	First	Second	Break	Third	Fourth
Timing	9:00 - 9:50 AM	9:50 - 10:40 AM	10:40 - 10:50 AM	10:50 - 11:40 AM	11:40 - 12:30 PM
Monday - Thursday: Lunch Break —12:30 to 1:30 PM—Lunch Break					
Period	Fifth	Sixth	Break	Seventh	
Timing	1:30 - 2:20 PM	2:20 - 3:10 PM	3:10 - 3:20 PM	3:20 - 4:10 PM	
Friday: Lunch Break —12:30 - 2:00 PM—Lunch Break					
Hour	Fifth	Sixth	No Break	Seventh	
Timing	2:00 - 2:50 PM	2:50 - 3:40 PM		3:40 - 4:25 PM	

13.2 Question Paper Pattern for Semester -End Examination:**(MGU, Prior to 2015 Admissions)**

The question papers of semester -end examinations of theory subjects shall be able to perform achievement testing of the students in an effective manner. The question paper shall be prepared. Duration of Semester - End examinations will be 3 hours.

- Covering all sections of the course syllabus
- Unambiguous and free from any defect/errors
- Emphasizing knowledge testing, problem solving & quantitative methods
- Containing adequate data/other information on the problem assigned
- Having clear and complete instructions to the candidate.

The pattern of question paper for theory subjects shall be as follows:

PART A:

Short answer questions

5 x 3 marks=15 marks

All questions are compulsory. There should be atleast one question from each module.

PART B:

Analytical/ Problem solving questions

5 x 5marks=25 marks

All questions are compulsory. There should be atleast one question from each module.

PART C:

Descriptive/Analytical/Problem solving questions

5 x 12marks=60 marks

Two questions from each module with choice to answer one question.

Maximum Total Marks:100

13.3 Kerala Technological University (KTU) Curriculum (2016 Admission onwards)

KTU has come into existence, controlling and regulating the technical institutions of the state with effect from 2016 - 17 academic year. The detailed regulations are given in the college handbook (Page 59-71). For further information visit www.ktu.edu.in

14. SYLLABUS - PLACEMENT AND TRAINING

Syllabus for Aptitude training- B Tech First Year

Numerical Aptitude	Logical Reasoning	Verbal Ability
How to Prepare for Maths; Addition & Subtraction; Multiplication & Division; Divisibility; Squaring; Cube; Square roots & Cube roots; HCF & LCM; Fractions; Decimals; Fractions; Surds & Indices	Syllogism; Blood Relation; Venn Diagram; Series Completion; Directions and senses; Coding & Decoding	Grammar Introduction; Adverbs, Adjectives; Articles & Tenses; Subject verb agreement & Preposition Articulation skills; Listening skills; Techniques to reading; Essay and precis writing; Report writing; Presentation skills

Syllabus for Aptitude training- B Tech 3rd Semester

Numerical Aptitude	Logical Reasoning	Verbal Ability
Permutation and Combination; Probability; Ratio and Proportion; Partnership; Percentage; Average; Problems Based on Ages; Profit and Loss; Simple Interest; Compound Interest	Logical Deduction; Seating arrangement problems; Circular arrangement Problems; Inserting Missing Character	Communication; Listening skills; Reading comprehension; Presentation techniques; Group discussion; Interview skills; Technical writing skills; Curriculum Vitae; Report writing

Syllabus for Aptitude training- B Tech 4th Semester

Numerical Aptitude	Logical Reasoning	Verbal Ability
Alligation; Time and Work; Work and Wages; Pipes and Cisterns; Time and Distance; Trains; Boats and Streams; Elementary Mensuration - 1; Measurement of Areas; Elementary Mensuration - 2; Measurement of Volume and Surface Areas; Number series	Cubes and Dice; Data Sufficiency; Day Sequences; Puzzle test	Comprehension; Vocabulary Enhancement; Antonyms and synonyms; Choose the right word; One word substitutes; Subject verb agreement; Active and passive voice Tenses; Articles and prepositions; GK exercises

Syllabus for Aptitude training- B Tech 5th Semester

Numerical Aptitude	Logical Reasoning	Verbal Ability
Data Analysis & Interpretation; Trigonometry; Clocks & Calendar; Chain Rule; True discount; Banker's discount	Number ranking and time sequence; Logical sequence of words ; Assertion and reasoning Analogy	Speaking exercises; Conversations; Extempore; Grammar exercises; Vocabulary improvement game and exercises; Free Writing; Reading comprehension passages; Letter writing

Syllabus for Aptitude training- B Tech 6th Semester

Numerical Aptitude	Logical Reasoning	Verbal Ability
Permutation and Combination; Probability; Ratio and Proportion; Partnership; Percentage; Average; Problems Based on Ages; Profit and Loss; Alligation; Time and Work; Work and Wages; Pipes and Cisterns; Time and Distance; Trains; Boats and Streams; Data Analysis & Interpretation; Clocks & Calendar; Chain Rule	Syllogism; Blood Relation; Venn Diagram; Series Completion; Directions and senses; Coding and Decoding; Logical Deduction; Seating arrangement problems; Circular arrangement Problems; Cubes and Dice; Data Sufficiency; Day Sequences; Puzzle test; Number ranking and time sequence; Logical sequence of words.	Group discussion skills; Mock GD's; Interview skills; Mock Interviews; Personality development; Anger management; Corporate Grooming; Mobile phone etiquette; Dining etiquette

15. GATE COACHING

The Graduate Aptitude Test in Engineering (GATE) is an all-India examination that primarily tests the comprehensive understanding of various undergraduate subjects in engineering and science. GATE is conducted jointly by the Indian Institute of Science and seven Indian Institute of Technology (Bombay, Delhi, Guwahati, Kanpur, Kharagpur, Madras and Roorkee) on behalf of the National Coordination Board – GATE, Department of Higher Education, Ministry of Human Resources Development (MHRD), and Government of India. The score is used for admission to various post-graduate programmes (e.g. M.E, M.Tech and direct Ph.D.) in Indian higher education institutes with financial assistance provided by MHRD and other Government agencies. Recently, GATE scores are also being used by several Indian public sector undertakings (i.e., government-owned companies) for recruiting graduate engineers in entry-level positions.

GATE Coaching Classes:

The department of mechanical engineering conducts GATE coaching classes for final year mechanical engineering on all the Saturdays and other holidays.

Following are the objectives of this course

- Motivate the students for self-development and be prepared to take up the challenges in research and development.
- Rallies confidence in appearing technical competitive Examinations.
- Equip students in mounting comprehensive subject knowledge.
- Encourage students to pursue dream specifications.

This course offers the following aids to students to get a good GATE score

- GATE Qualified Experienced Faculty members
- Discussion and Doubt clarification of previous GATE papers
- GATE mock tests and subjects wise tests
- General Aptitude and Mathematics development classes

Course Co-ordinator: Mr. Bibin Varkey

16. MECHANICAL ENGINEERING ASSOCIATION

ARMS, The Association of Royal Mechanical Students of SAINTGITS had its evolution in the year 2004 and ever since then, the torch is being passed on to the emerging semesters for revealing their true spirits on this innovative platform. The association took shape with the initiative of Mechanical Engineering Students of our college and since then it is growing to new heights, thereby setting a new trend and leaving a trail of unparalleled success in its path.

16.1 ARMS exist to

Promote competitive spirit among faculty & students

Organize department Technical Fest

Acknowledge the Excellence among Faculty and Students

16.2 Office Bearers

16.2 Office Bearers		
Faculty in Charge	Er. Sreejith R	
President	Jevin Thomas George	7293874290
Secretary	Tharun Thomas	9048646881
Joint Secretary	Jerrin Mathew	7025446533
Treasurer	Sebin Jose	9496465644
Executive Committee Members	Ameen A Azhar	9497322699
	Jijo Abraham	9605705548
	Kurian V Kurian	9495914650
	Joel T Varghese	9447703954

16.3 Association Activities Planned for 2016-2017

Technical Fest - MECHNIUS

Alumni Interaction

Best B.Tech Project Competition

Best M.Tech Project Competition

Best B.Tech Seminar Competition

Best Paper Presentation Competition

Best Mini Innovative project competition

Best bugging engineer competition

Best designer competition
 Group discussion competition
 Aptitude test competition
 GEM of 2015-16 competition
 Merit Day

Technical Fest – MECHNIUS

Coined from the words Mechanical & Genius, MECHNIUS provided the apt platform for the budding professionals to get transformed from an Intellectual to a Genius. It is scheduled in the first week of August.

Faculty Co-ordinators	Er. Sreejith.R
Project Manager	Tharun Thomas
Asst. Project Manager	Jerrin Mathew, Sebin Jose

Alumni Interaction

Faculty In charge	Er. Cherian Paul, Er. Tobin Thomas
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Best B.Tech Project Competition

The Best project will be acknowledged with a cash prize of Rs 20000/-

Faculty In Charge	Er. Vineeth.V.K, Er. Jenny John Mattam, Er. Bibin Varkey, Er. Sreekumar.C
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Best M.Tech Project Competition

The Best project will be acknowledged with a cash prize of Rs1500/-

Faculty In Charge	Dr. Jason Cherian Issac, Er. Sailesh.K.S, Er. Parvathy Venugopal, Er. Sreejith.R
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Best B.Tech Seminar Competition

The Best three seminar will be acknowledged with a cash prize of Rs100/- each

Faculty In Charge	Prof. G Anil Kumar, Er. Vineeth.V.K
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Best Mini Innovative Project Competition

The competition is meant for the second and third year Mechanical students. The most innovative project two from each year will be acknowledged with a cash prize of Rs 500/- each.

Faculty In Charge	Er. Nisthul.G, Er. Vinay Mathew John
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Best Budding Engineer Competition

The Best Budding Engineer one from each batch [S3/S4 & S5/S6] will be appreciated with a cash prize of Rs 500/- each.

Faculty In Charge Er. Arun K Varghese, Er. Parvathy Venugopal,
Er. Jerin George

Best Designer Competition

The Best Designer among the three batches of Mechanical Engineering will be awarded with a cash prize of Rs 1000/-. Knowledge of Design Softwares will carry weightage.

Faculty In Charge Er. Tobin Thomas, Er. Sreekumar.C,
Er. Jermy Varghese Thomas

Group Discussion Competition

The winners will be acknowledged with a cash prize of Rs300/-, Rs200/- & Rs100/- respectively

Faculty In Charge Er. Vinay Mathew John, Er. George.T.S

Aptitude Test Competition

The winners will be acknowledged with a cash prize of Rs300/-, Rs200/- & Rs100/- respectively

Faculty In Charge Er. Vinay Mathew John, Er. George.T.S

“GEM of 2015-16” Competition

The BEST STUDENT from the Second and Third Year batch will be named as the GEM for 2014- 15 .The same person will be appreciated with a cash prize of Rs1000/-

Co-ordinators Respective Chief Staff Advisors under the leadership of
Chief Co-ordinator (SAS) and HoD

17. CHAPTER OF PROFESSIONAL BODIES

17.1 **SAE**® SAINTGITS CHAPTER

SAE India is an affiliate society of SAE International, registered as an Indian non-profit engineering and scientific society dedicated to the advancement of mobility community in India. As an individual member driven society of mobility practitioners, SAEINDIA comprises members who are individuals from the mobility community, which includes engineers, executives from industry, government officials, academics and students. Principal emphasis is placed on transport industries such as automotive, aerospace, and commercial vehicles.

SAE Saintgits Collegiate Club has been inaugurated by S. Sivakumar, DGM, Design Studio, Royal Enfield, Chennai on 3rd February 2010. At present, the SAE Saintgits Club is having more than 400 active members. SAEINDIA is a professional engineering society whose membership represents practically every engineering and scientific discipline. Its members combine their specialized abilities to further advance the research, development, design, manufacture and utilization of vehicles which operate on land, water, air and space.

The office bearers of SAE Saintgits for the year 2016 -17 are:

Faculty Mentors	Er. Bibin Varkey, Er. Arun K Varghese Er. Jermy Varghese Thomas	
Faculty in Charge (SAE)	Er. Bibin Varkey	
Chairman	Sandip M Jayaram	2013-2017 Batch
Vice Chairman	Shilpa G Pradeep	2014-2018 Batch
Secretary	Sentison Mathew	2013-2017 Batch
Joint Secretary	Kurian V Kurian	2014-2018 Batch
Treasurer	Tharun Thomas	2013-2017 Batch
Publicity Chairman	Justin Joseph	2013-2017 Batch
Programme Committee	Joel T Varghese	2014-2018 Batch

Activities Planned for 2016-2017

- Conducting Tier I Events as part of Student convention 2016
- Participating in SAE BAJA 2017 competition
- Conducting Technical talks for the students
- Arranging Industrial visits for faculty members
- Enrollment of new students to SAE INDIA professional body
- Mobilizing students to participate in various SAE activities organized by SAE INDIA

17.2. SESI Saintgits Chapter

The Solar Energy Society of India (SESI), established in 1976, and having its Secretariat in New Delhi, is the Indian Section of the International Solar Energy Society (ISES). Its interests cover all aspects of renewable energy, including characteristics, effects and methods of use, and it provides a common ground to all those concerned with the nature and utilization of this renewable non-polluting resource.

The major activities of the Society are:

- Publication of SESI Journal, a bi-annual technical journal containing papers on renewable energy utilization, technical notes and other items of interest of those involved in renewable energy research and development.
- Publication of a monthly newsletter, namely the SESI News Letter.
- Organization of one –day workshops on selected topics.
- Organization of the International Congress on Renewable Energy once in a year, where numerous scientific and technical papers are presented and discussed.
- Publication of the proceedings of the Annual Convention

The office bearers of SESI Saintgits Chapter for the year 2016 -17 are:

Staff in Charge	Er. Geo Sebastian	
Chairman	Mannu Thomas Mathai	9495100768
Vice Chairman	Boney Philip	949772137
Secretary	Aakash C	8547325459
Joint Secretary	Ligin Jacob Abraham	9446437830
Treasurer	Jithin George	9497003205

Activities Planned for 2016-2017

Technical talk for students by Sherin Thomas, Engineer Thermax
Training programme on FLUENT by Ranjith R, FISAT
Collaboration with renewable energy center, Mitadam

17.3. IIM Saintgits Chapter

The Indian Institute of Metals (IIM) is a premier body representing the family of professional metallurgists in India. IIM was formed in 1947 with the objectives of promoting and advancing the study and practice of Science and Technology of Metals & Alloys and protecting the interests of metallurgists and metallurgical engineers.

Department of Mechanical Engineering enrolled in the IIM under IIM, Trivandrum Chapter on 21st November 2014, total of 40 (1 Life member & 39 Associate) members are present in the Saintgits chapter of IIM at present.

Faculty in Charge: Er. George John

17.4. IIW Saintgits Chapter

The Indian Institute of Welding (IIW-India) was incorporated on the 22nd April, 1966 at Calcutta to foster the development of welding science, technology and engineering in India and since then has been serving the cause of the welding industry through its 13 branches / chapters throughout India.

Through its various activities and programmes, IIW-India is now recognised as the premier Institute related to welding in the country with over 4500 Individual and Corporate Members.

Faculty in Charge: Er. Cherian Paul

17.5. IEI Saintgits Chapter

Saintgits College of Engineering Students Chapter of The Institution of Engineers (India) [IE(I)] was inaugurated on July 30, 2015. The Mechanical Students chapter has 430 members at present.

The various activities conducted under the banner of IE(I) are

1. Year wise technical Quiz Competition for 2nd, 3rd, 4th year students
2. Paper presentation for the students
3. Industrial Visits
4. Technical Talks

Faculty in Charge: Davis Wilson

18. RESEARCH FACILITIES

- **3D Printer**

A fully featured 3D Printer (ProtoCentre 999) is fully available in the college. 3D printing or additive manufacturing (AM) consists of various processes for making a three-dimensional object of almost any shape from a 3D model or other electronic data source primarily through additive processes in which successive layers of material are laid down under computer control.

Faculty in Charge: Er. Arun K Varghese



- **CNC Machines**

Rapidly changing market demands, designs, more complicate designs with variety of materials and low products life cycle time, made product designer to evaluate various design alternatives within short period time. By using CAD/CAM & CAE made the task of product designer easier with more accuracy and precision. The facilities in the research lab include a CNC Lathe and a Milling machine (Make: LMW, CNC: Sinumeric-Siemens).



CNC Lathe



Turning Centre

Specification:

Title	Description	Smarturn
CNC system	Controller	Siemens
Capacity	Swing over bed	480 mm
	Chuck dia, max	165 mm
	Max. turning diameter	200 mm
	Max. turning length	262 mm
	Admit between centres	345 mm
Machine size	Front x Side	2275 X 1640 mm
	Machine Weight (Approx)	2300 kg

Title	Description	LV 45
CNC system	Controller	Siemens
Capacity	Swing over bed	480 mm
	Chuck dia, max	165 mm
	Max. turning diameter	200 mm
	Max. turning length	262 mm
	Admit between centres	345 mm
Machine size	Front x Side	1780 x 2716 mm
	Machine Weight (Approx)	2000 kg

Faculty in Charge: Er. George.T.S

- **Work Station**

Five high end workstations capable of doing all tasking CAE activities are available in the Research Lab. It has Intel Xeon processors, 16 GB RAM, Dedicated graphics card etc.

Software Available:

- Solid works 2014
- CATIA V6
- MATLAB R2011a
- ANSYS 15
- AutoCAD 2010
- KISSlicer
- Netfabb

- **Computerized SI Engine Test Rig**

The test rig consists of a twin cylinder four stroke water cooled petrol engine coupled with eddy current dynamometer and are mounted on an M.S Frame. It has a stainless steel panel board consisting of digital instruments such as DAQ board, torque controller with ammeter & main on/off switch. The panel board is designed to mount a computer on the table for monitoring the readings taken from the test rig.



Specification:

Twin Cylinder 4 Stroke Water Cooled Petrol Engine Coupled to Eddy Current Dynamometer, Engine: 5 hp@1500 rpm)

Faculty in Charge: Er. Nandu S

19. MEMORANDUM OF UNDERSTANDING (MOUs)

The department has signed MOUs with Autodesk Asia PTE Ltd, CADD Centre Training Services and CoreEL Technologies.

1) **Autodesk Asia PTE Ltd.**

AUTODESK provides free access to Autodesk softwares and will support to develop discipline specific design curricula & courseware embedded with Autodesk software on new emerging concepts. It also provides training in Autodesk softwares and provides Autodesk certification. Also to promote and encourage students to participate and showcase their Design Skills, Autodesk conducts National Design Competitions that will give an opportunity to students to benchmark them with global peers.

2) **CADD Centre Training Services**

CADD Centre provides training in mechanical design & CAD software to students as part of their curriculum as per the latest trends in the area of mechanical design. The training is in accordance with latest software and industry requirements.

3) **CoreEL Technologies**

CoreEL is a Synergistic Value Added Technology Products and Solutions Provider in India. They develop standard and custom system level products to Industry with markets like Defense and Space, Broadcasting and Professional Video, Education, Telecom and Networking and Security. The MOU enables to engage with the Industry on a regular basis to understand the needs of the industry and accordingly update the syllabus. It also provides knowhow to upgrade the infrastructure in VLSI, Embedded Domain and other information technology-related topics and to procure various industry standard hardware and software. It also collaborate with the industry for research programme, projects and student internships in the above fields and to faculty development programs for teaching staff, advanced training to students.

20. LIST OF BOOKS AVAILABLE IN DEPARTMENT LIBRARY

1 Industrial Stream Books

No.	Book No	Name of Book	Author(s)
1	ME 14	Research for Marketing Decisions	Green, Tull, Albaum
2	ME 124	Operations Research	J K Sharma
3	ME 30	Total Quality Management	Kulneet Suri
4	ME 35	Principles of Management	Tripathi & Reddy
5	ME 42	Industrial Engineering	O.P Khanna
6	ME 48	Industrial Engineering and Management science	S C Sharma
7	ME 64	Engineering Management	A.K Gupta
8	ME 65	Entrepreneurship Development	R K Singal
9	ME 81	Strategic Brand Management	Keller Lane
10	ME 92	Statistical Quality Control	M.Mahajan
11	ME 144	Statistical Quality Control	Mahajan
12	ME 142	Industrial Engineering	M Mahajan
13	ME 176	Industrial Engineering & Production Management	M Mahajan
14	ME 208	Principles of Management	Vishal Kumar
15	ME15007	Industrial Engineering and Management	Pravin Kumar
16	ME15009	Essentials of Management	Stephen P. Robbins & David A De Cenzo
17	ME 171	Operations Research	Mahajan
18	ME41539	Industrial and Business Management	M T Telsang
19	ME41541	Facilities Planning	J A Tompkins
20	ME41549	Essentials of Management	H Koontz
21	ME41550	Consumer Behaviour	L G Schiffman
22	ME41540	Genetic Algorithms	D E Goldberg
23	ME43815	Genetic Algorithms	David E Goldberg
24	ME41526	Supply Chain Management	S Chopra

25	ME42042	Operations Research	H A Taha
26	ME42489	Operations Management	Krajewski
27	ME43608	Operation Research	PAI
28	ME43603	Mechanical Reliability	LS Srinath

2 Production Stream Books

No.	Book No	Name of Book	Author(s)
1	ME 13	A Textbook of Production Engineering	P C Sharma
2	ME 15	Mechanical Measurements and Instruments	Rajput
3	ME 22	Workshop Technology	S K Garg
4	ME 23	Operations Research	S.Bhaskar
5	ME 32	Engineering Metrology and Instrumentation	R K Rajput
6	ME 55	Numerical Control of Machine Tools	Yorem Koren, Joseph
7	ME 57	A Textbook of Material Science and Metallurgy	O P Khanna
8	ME 72	Material Science	
9	ME 75	Fundamentals of Production Planning & Control	Stephen N chapman
10	ME 127	Mechanical Measurements	Thomas, Roy
11	ME 137	Manufacturing Technology	P C Sharma
12	ME 141	Machine Tools	fluid
13	ME 145	A Course in Workshop Technology Vol 1	Raghuwenshi
14	ME 146	Workshop Technology	B S Raghuwashi
15	ME 152	Production Engineering	R K Jain
16	ME 159	Engineering Metrology and Instrumentation	R K Rajput
17	ME 163	Workshop Technology	S K Garg
18	ME 203	Metrology and Instrumentation	Mathew Prins Korah Philip
19	ME 204	Product Design for the	

		Developing World	
20	ME 210	A Textbook of Material Science and Engineering	R K Rajput
21	ME41534	Mechanical Metallurgy	George E Dieter
22	ME41536	Manufacturing Engineering and Technology	S Kalpakjian
23	ME42044	Practical Non-destructive Testing	B Raj
24	ME43821	Production and Operations Management	Everette Adam, JR Arnold J Ebert
25	ME3663	Roots to Research	Sally
26	ME43568	Assembly Automation and Product Design	Geoffrey Boothroyd
27	ME43592	Introduction to Avionics Systems	RPG Collinson
28	ME43565	Reliability and Maintainability Engineering	Ebeling
29	ME43601	Marketing Research	GC Beri
30	ME43600	Manufacturing Science	Khan, haque
31	ME43716	The Science and Engineering of Cutting	Tong
32	ME43590	Injection Mould Design	R.G.W Pve
33	ME43605	Metal cutting theory and practice	Stephenson
34	ME43611	Rapid Prototyping and Engineering Applications.	Frank W, Liou
35	ME42356	ASM Handbook Failure Analysis and Prevention	
36	ME42357	ASM Handbook Failure Analysis and Prevention	
37	ME43556	Dictionary of Mechanical Engineering	
38	ME42360	Maintenance Engineering Handbook	R. Keithmoble
39	AE27992	Advanced cNtrol Theory	A .Nagoorkani
40	ME 110	CNC Technology and Programming	Tilakraj
41	ME13606	Non destructive test and	Prasad Nair

		Evaluation of materials	
42	ME 4	An Introduction to NC/CNC Machines	S. Vishal

3 Design Stream Books

No.	Book No	Name of Book	Author(s)
1	ME 1	A Textbook of Machine Design	R.S.Khurmi, J.K Gupta
2	ME 6	Fundamentals of Machine Drawing	Sadhu Singh, P.L Sah
3	ME 7	Machine Drawing	P I Varghese & K C John
4	ME 8	Machine Design	P.C Sharma , D.K Agarwal
5	ME 18	Design Data book	S.Md,Jalaludeen
6	ME 28	Theory of Machines	R S Khurmi
7	ME 33	Machine Drawing	M S Gill
8	ME 37	Elements of Material Science	Van Vlack
9	ME 38	Engineering Graphics	P.I Varghese
10	ME 39	Machine Drawing	P.I Varghese, K.C John
11	ME 45	Design of Machine Elements	V.B Bhandari
12	ME 47	Mechanical Engineering Design	Shigley, Mischke
13	ME 50	Design Data Handbook	Mahadevan & Reddy
14	ME 56	Strength of Materials	R.K. Bansal
15	ME 66	Engineering Mechanics	R.K Bansal
16	ME 67	Finite Element Analysis	S.S Bhankkath
17	ME 69	Engineering Graphics	K N Anilkumar
18	ME 71	Engineering Mechanics	
19	ME 74	Theory of Machines	V P Singh
20	ME 76	Engineering Design Communication & Modelling Using Unigraphics NX	Gang Qi
21	ME 80	Solutions Manual- Engineering Mechanics of Solids	Popov
22	ME 82	Machine Drawing	Ajeeth Singh

23	ME 86	Recent Trends in Aerospace Design and Optimization (Proceedings)	
24	ME 87	Recent Trends in Aerospace Design and Optimization (Proceedings)	D.Koner
25	ME 89	Machine Drawing	P.I Varghese
26	ME 93	Mechanical Vibrations	V.P Singh
27	ME 95	Machine design A basic approach	Dr. S S Wadhana & Er. SS Jolly
28	ME 96	Handbook on Properties of Engineering Material & Design Data for Machine Elements	Shariff
29	ME 100	CAMS - Design, Dynamics & Accuracy	Harold & Rothbart
30	ME 101	Dynamics of Machinery	A R Holowenko
31	ME 102	Wear of Metals	A W Sankar
32	ME 103	Friction & Wear	A D Sarkar
33	ME 104	Theory and Practical of Lubrication for Engineers	D D Fuller
34	ME 105	Tensor Analysis	I S Sokolnikoff
35	ME 106	Experimental Stress Analysis	J W Dally
36	ME 111	Strength of Materials	
37	ME 112	Engineering Drawing & Computer Graphics	H singh
38	ME 122	Mechanical Design Analysis	M F Spotts
39	ME 123	Theory of Machines II	Vinay Mathew John
40	ME 131	Engineering Graphics using AutoCAD	Jeyopooan
41	ME 140	Theory of Machines	R K Bansal & J S Brar
42	ME 147	Theory of Machines	V P Singh
43	ME 150	Engineering Graphics	P I Varghese
44	ME 151	Theory of Machines	V P Singh
45	ME 157	Design Data Handbook	Mahadevan & Reddy

46	ME 161	Engineering Mechanics (Statics & Dynamics)	D S Kumar
47	ME 162	Machine Drawing	M S Gill
48	ME 164	Machine Drawing	
49	ME 167	Engineering Graphics	P Varghese
50	ME 168	Machine Drawing	P I Varghese & K C John
51	ME 182	Theory of Machines	Rattan
52	ME 206	Engineering Graphics	K N Anilkumar
53	ME 207	Engineering Graphics	K N Anilkumar
54	ME16001	Engineering Design	Clive L. Dym
55	ME16002	Engineering Design	Clive L. Dym
56	ME15005	Kinematics & Dynamics of Machinery	Charles Wilson & Peter Sadler
57	ME15006	Design of Machine Elements	M.F Spotts & T. E Shoup
58	ME15008	Computer Aided Design and Manufacturing	M. Groover & E. Zimmers
59	ME41523	Mechanical Vibrations	S G Kelly
60	ME41524	Theory of Machines	T Bevan
61	ME41525	Theory of Elasticity	S.P. Timoshenko
62	ME41527	Strength of Materials	W A Nash
63	ME41528	Strength of Materials	S Timoshenko
64	ME41529	Solid Mechanics	S M A Kazimi
65	ME41530	Mechanical Measurements	T G Beckwith
66	ME41537	Kinematics and Dynamics of Machinery	C E Wilson
67	ME41544	Fundamentals of Machine Component Design	R C Juvinall
68	ME41551	Design of Machine Elements	V B Bhandari
69	ME41552	Computer Graphics	D D Hearn
70	ME41678	Advance Mechanics of Materials	A P Boresi
71	ME41679	Theory of Vibrations with applications	William T Thomson
72	ME41680	Mechanical Engineering Design	R G Budynas

73	ME41681	Finite Element Method	D L Logan
74	ME41682	Kinematics and Dynamics of Machinery	R L Norton
75	ME42030	Concepts and Applications of Finite Element Analysis	R D Cook
76	ME42032	Design of Machine Elements	M F Spotts
77	ME42035	Fundamentals of Finite Element Analysis	D V Hutton
78	ME42039	Modern Experimental Stress Analysis	J F Doyle
79	ME42040	Nano: The Essentials	T Pradeep
80	ME42045	Strength of Materials	J P D Hartog
81	ME42202	Automotive Mechanics	W H Crouse
82	ME42203	Theory of Machines and Mechanisms	J J Uicker
83	ME43738	Automotive Mechanics	Joseph Heitner
84	ME43721	Mechanical Fault Diagnosis	R A Collacott
85	ME43728	Fundamentals of Vibration	Leonard Meirovitch
86	ME43612	Strength of Materials	U C Jindal
87	ME44100	Introduction To Acoustics	Robert D Finch
88	ME44096	Deformation and Fracture Mechanics of Engineering Materials	Richard W Hertzberg
89	ME43820	Introduction To Solid Mechanics	Irving H Shames
90	ME43818	Engineering Mechanics of Solids	Egor P Popov
91	ME43598	Machine Design	Hall, Holdwenko
92	ME42361	Machine Design	Erdman
93	ME43596	Machine Design	Norton
94	ME 8145	Mechanical Engineering Design	Shigley
95	ME11662	Introduction to Machine Design	Bhandari
96	ME43570	Design of Machine elements	Spotts, Shoup
97	ME42359	Friction & Wear of materials	Robinowicz
98	ME43718	Vibration of continuous systems	S S Rao

99	ME43604	Mechanical Vibration & Industrial noise	Lasithan
100	ME43664	Theory of Machines and Mechanisms	Singh
101	ME40096	Dynamics of Machinery	S. Balaguru
102	ME42355	Advanced Strength of Materials	Hartog
103	ME43586	Fundamentals of Strength of Materials	Chandramouli
104	ME43577	Engineering Metrology & Measurements	Raghavendra
105	ME43618	Theory of Plates and Shells	Timoshenko
106	ME15010	Automobile Engineering	K.M.Gupta
107	ME43594	Introduction to Physical Metallurgy	AVNER
108	ME43561	An Introduction to Metallurgy	Sir Alan Cottrell
109	ME43588	Industrial Robotics	Mikell P Groover
110	ME43595	Introduction to Robotics	Craig
111	ME43593	Introduction to Mechanics	Appuu Kuttan
112	ME43574	Engineering Drawing	Shah Rana
113	ME43573	Engineering Drawing & Graphics	French
114	ME15001	Engineering Graphics	Sankar
115	ME43618	Mechanics	Young
116	ME15002	Engineering Mechanics	Dr D S Kumar
117	ME43575	Engineering Mechanics	Timoshenko
118	ME43711	Engineering Mechanics and Dynamics	Meriam
119	ME43576	Engineering Mechanics	Nelson
120	ME39162	An introduction to CATIA V6 release 2012	Kirstic Plantenberg
121	ME 27	Mechanical Engineering	D S Kumar
122	ME 43	Introduction to Robotics	John. J.Craig
123	ME 70	Automobile Engineering	R K Singal
124	ME 83	Modern Inertial Sensors & Systems	Bose, Puri & Banerjee

125	ME 90	English for Technical Communication	Viswamohan
126	ME43562	An Introduction to Modern Vehicle Design	Happian
127	ME 115	Basic Mechanical Engineering	Rajesh Kumar R
128	ME 132	Basic Mechanical Engineering	Rajesh & Arun mathew
129	ME 148	Mechanical Objectives	G K publishers
130	ME 178	Basic Mechanical Engineering	Rajesh Kumar R
131	ME15010	Automobile Engineering -II	P.S. Gill
132	ME41531	Principles of Interactive Computer Graphics	William M Newman
133	ME43614	The Finite Element Method using MathLab	Hwon Bang
134	ME43558	An Introduction to game Theoretic modeling	Michael, Mesterton
135	ME43579	Feedback Control of Dynamic systems	Frankline powell

4 Thermal Stream Books

No.	Book No	Name of Book	Author(s)
1	ME 2	Fundamentals of heat and mass transfer	C.P Kothandaraman
2	ME 3	Non conventional Energy Resource	S.Hasan Saeed, D.K Sharma
3	ME 5	A Textbook of Power Plant Engineering	P C Sharma
4	ME 9	Steam tables	K K Ramalingam
5	ME 17	Heat and mass transfer	K.Kannan
6	ME 20	Power Plant Engineering	A K Raja
7	ME 24	A text book on Thermal eEngineering	R.S.Khurmi, J.K Gupta
8	ME 41	Refrigeration & Air Conditioning	P.L Ballaney
9	ME 44	Power Plant Engineering	G.R Nagpal
10	ME 46	Fundamentals of Compressible Flow	Yahya
11	ME 49	Internal Combustion Engine	V. Ganesan

12	ME 52	Power Plant Engineering	Rajput
13	ME 53	Hydraulics and Fluid Mechanics including Hydraulic Machines	P N Modi
14	ME 59	Thermal Science and engineering	Dr.D.S Kumar
15	ME 61	Refrigeration & Air Conditioning	R K Rajput
16	ME 73	Refrigeration & Air Conditioning	R.K Rajput
17	ME 78	Fundamentals of Heat and Mass Transfer	M. Thirumaleshwar
18	ME 88	Proceeding on STTP on Aerospace Engg	
19	ME 91	Heat & Mass Transfer Data Book	Domkundar
20	ME 97	Heat And Mass Transfer	
21	ME 108	Hydraulic And Fluid Mechanics	S S Ramamrudham
22	ME 113	A Text Book On Refrigeration And Air Conditioning	
23	ME 118	Engineering Thermodynamics	K K Ramalingam
24	ME 119	Thermal Science And Engineering	K K Ramalingam
25	ME 125	Thermal Science And Engineering	Dom Kundwar
26	ME 126	Fluid Mechanics	Dr. D S Kumar
27	ME 135	Hydraulics Machines	
28	ME 143	Heat And Mass Transfer	Dom Kundwar
29	ME 155	Fundamentals Of Compressible Flow	Yahya
30	ME 156	Gas Tables	Yahya
31	ME 158	Power Plant Engineering	G R Nagpal
32	ME 160	Engineering Thermodynamics	P K Nag
33	ME 165	A Textbook Of Hydraulic Machines	R K Rajput
34	ME 170	I.C Engines	V M Domkindwar
35	ME 172	RAC Data Book	Domkundwar
36	ME 173	Refrigerant Properties & Psychometric Properties	Domkundwar
37	ME 174	Heat & Mass Transfer	Domkundwar & Arora
38	ME 175	A Course in Thermal Engineering	Domkundwar & Kothandaraman
39	ME 177	Refrigeration and Air-conditioning	Dom Kundwar Arora

40	ME 214	Engineering Thermodynamics	Engineering Thermodynamics
41	ME15003	Engineering Thermodynamics	R.K.Rajput
42	ME15004	Engineering Heat & Mass Transfer	Mahesh M Rathore
43	ME41520	Introduction to Computational Fluid Dynamics	A W Date
44	ME41521	Thermodynamics	Y A Cengel
45	ME41532	Power Plant Technology	M M El-Wakil
46	ME41538	Internal Combustion Engine Fundamentals	J B Heywood
47	ME41542	Fundamentals Of Heat And Mass Transfer	Incropera
48	ME41546	Fluid Mechanics	P K Kundu
49	ME41548	Fluid Mechanics	J F Douglas
50	ME41677	Gas Turbine Theory	HHH Saravanamuttoo
51	ME42031	Cryogenic Engineering	T M Flynn
52	ME42033	Elements Of Gas Dynamics	H W Liepmann
53	ME42034	Fundamentals Of Aerodynamics	J D Anderson Jr
54	ME42036	Gas Dynamics	M J Zucrow
55	ME42038	Mechanics Of Flight	A C Kermode
56	ME42041	Numerical Heat Transfer And Fluid Flow	S V Patankar
57	ME42204	Model Compressible Flow	J D Anderson Jr
58	ME43566	Applied Fluid Mechanics	D N Roy
59	ME41521	Thermodynamics	Yumus C Cengel,Micheal A Boles
60	ME44797	Fundamentals Of Aerodynamics	ArnoldM Kuethe,Chuen Yen Chow
61	ME43819	Principles of Refrigeration	Roy J Dossat
62	ME43666	Turbo Machines	A Valan
63	ME 120	A Basic Course in Environmental Studies	S Deswan & A Deswan
64	ME43717	Diesel Engine	Dempse
65	ME43613	Principles of Combustion	KUO
66	ME43558	An Introduction to Combustion	Turns

67	ME43585	Fundamentals of Gas Dynamics	Zucker Biblarz
68	ME43583	Fluid Mechanics	Majumdar
69	ME43567	Applied Gas Dynamics	Rathakrishnan
70	ME43563	Basics of Fluid Mechanics and Hydraulic Machine	Zoeb Husain
71	ME43667	Solid and Fluid Mechanics	S S Bhavikatti
72	ME43571	Design of Thermal Systems	Stoecker
73	ME42363	Thermodynamics of Materials	Ragone
74	ME43617	Thermodynamics and Energy System Analysis	Lucien Bore
75	ME42354	Advanced Engineering Thermodynamics	Bejan
76	ME43665	Computational Fluid Dynamics	Tu, Yeoh, Liu
77	ME43580	Finite Element Analysis	H.V.Lakshminarayana
78	ME 5	A Textbook of Power Plant Engineering	P C Sharma
79	ME43578	Computational Fluid Dynamics	zikanov
80	ME43712	Fundamentals of Heat Exchanger Design	Shah Sekalic
81	ME43609	Principles of Heat And Mass Transfer	Incropera Dewitt
82	ME42358	Cryogenics Systems	Barron, RF
83	ME37	Power Plant Engineering	RK Rajputu
84	ME43607	Oil Hydraulic Systems	SR majumdar
85	ME41532	Power Plant Technology	M El-Wakil

5 Other Books

No.	Book No	Name of Book	Author(s)
1	ME 34	NC(ET)2-07 Proceedings	Saintgits college ISTE chapter
2	ME 99	GRE Exam 2003 edition	Kaplan publishers
3	ME 129	Think and Grow Rich	Napolean Hill
4	ME 130	Address book Saintgits 2006-2010	
5	ME 153	TOEFL	Galgotia
6	ME 200	MGU - Course Regulations of B.Tech Degree Courses (Revised)	
7	ME 209	University Solved Question	2010 Scheme

		Paper S1S2	
8	ME 212	University Solved Question Paper S1S2	2010 Scheme
9	ME 213	MGU - Revised Scheme and Syllabus and Syllabus for Combined I and II Sem	
10	ME 215	Kerala Expedition 2	Kerala Expedition 2
11	ME 216	Kerala Expedition 2	Kerala Expedition 2
12	ME 217	Kerala Expedition 2	Kerala Expedition 2
13	ME41522	Projects	P Chandra
14	ME41553	Advanced Engineering Mathematics	E Kreyzig
15	ME43797	CRUISE	Placement
16	ME43796	CRUISE	Placement
17	ME43795	CRUISE	Placement
18	ME43767	CRUISE	Placement
19	ME43766	CRUISE	Placement
20	ME43765	CRUISE	Placement
21	ME41553	Advanced Engineering Mathematics	E Kreyzig
22	ME43797	CRUISE	Placement
23	ME43796	CRUISE	Placement
24	ME43795	CRUISE	Placement
25	ME43767	CRUISE	Placement
26	ME43766	CRUISE	Placement
27	ME43765	CRUISE	Placement
28	ME41553	Advanced Engineering Mathematics	E Kreyzig
29	ME43797	CRUISE	Placement
30	ME43796	CRUISE	Placement