



E.G.S. PILLAY ENGINEERING COLLEGE
(An Autonomous Institution, Affiliated to Anna University, Chennai)
Nagore Post, Nagapattinam - 611 002, Tamilnadu.



Minutes of Board of Studies (BoS) Meeting

Name of the Department	Mechanical Engineering
Names of the Programmes	B.E - Mechanical Engineering
	M.E - Manufacturing Engineering
Meeting No	01
Date & Time	07-07-2017 & 10:00 a.m.
Venue	Mechanical Seminar Hall

The names of members present in the Board of Studies is given in Annexure - I

1. Chairman / BoS welcomed all members for the 1st meeting of Board of Studies.
2. Chairman / BoS introduced the members.
3. Chairman / BoS briefed the members about the Agenda.
 - Dissemination of Department Vision, Mission, PEOs, POs and PSDs
 - To finalize the curriculum and syllabi of first and second semester B.E -Mech and M.E -Manufacturing Programmes
 - To finalize the curriculum of 3rd - 8th Semester B.E-Mech and 3rd & 4th Semesters of M.E- Manufacturing Programmes
 - To discuss the question paper pattern for UG/PG Programme and Evaluation methodologies
 - For UG programme, The following value added courses are to be conducted
 - > Modelling using CREO parametric
 - > Hands on training in SOLIDWORKS (Industrial Design)
 - > Heat ventilation and Air Conditioning
 - For PG programme, The following value added courses are to be conducted
 - > Oil and Gas in Engineering & Technology
 - > NDT Technologies in Radiography technology
 - Any other matters

4. The following are the suggestions given by the member of Board of Studies.
 - The Board of Studies members have gone through the curriculum and syllabi of first and second semester B.E -Mech and M.E -Manufacturing Programmes.
 - The Board of Studies members have gone through the curriculum of 3rd - 8th Semester of B.E -Mech and 3rd & 4th Semesters of M.E - Manufacturing Programmes.
 - Total number of credits for B.Mech programme should be within 180.

UG: B.E. - Mechanical Engineering

1st Sem:

- ~~At present~~ At present the syllabus of mechanical engineering the syllabus may be revised, bearing in mind the standard of 1st year students

Dr. S. RAMABALAN, M.E., Ph.D.,
PRINCIPAL

E.G.S. Pillay Engineering College,
Thethi, Nagore - 611 002.
Nagapattinam (Dt) Tamil Nadu.

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Post Graduate: M.E Manufacturing Engineering

- All Syllabus may be revised based on the job requirement.

Question Paper Patterns

UG/PG Programme.

Part A = 10 x 2 = 20 Marks

Part B = 5 x 12 = 60 Marks (Either or)

Part C = 1 x 20 = 20 Marks (Either or)

Total = 100 Marks, Duration = 3 Hours

Evaluation Methods

Theory

Continuous Assessment = 40%

Semester Examinations = 60%

Practical

Continuous Assessment = 50%

Semester Examinations = 50%


The following resolutions were passed

- It is resolved to recommend the curriculum and syllabi of first and second semester of B.E Mech and M.E. Manufacturing Programmes to the Academic Council for approval.
- It is resolved to recommend the curriculum of 3rd – 8th Semester B.E Mech and 3rd and 4th semester M.E. Manufacturing Programmes to the academic Council for approval.
- It is resolved to recommend the question paper pattern UG/PG Programmes and evaluation methodology for approval.

The Chairman, Board of Studies thanked all the members for their valuable suggestions and coordination.

Date: 07.07.2017

Place: Nagapattinam


Chairman – BoS (Mech)

CHAIRMAN
Board of Studies
Department of Mechanical Engineering
E.G.S. Pillay Engineering College,
(Autonomous)
Nagapattinam.

ATTESTED


Dr. S. RAMABALAN, M.E., Ph.D.,
PRINCIPAL

E.G.S. Pillay Engineering College,
Thethi, Nagore - 611 002.
Nagapattinam (Dt) Tamil Nadu.



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Board of Studies Meeting

Attendance

Name of the Department : Mechanical Engineering

Meeting No : 01

Date & Time : 07-07-2017 & 9.30 A.M.

Venue : Board Room

Sl.No.	Name	Category	Signature
1	Dr. S. KRISHNAMOHAN	Chairman	
2	Dr. R. SARAVANAN	University Nominee	
3	Dr. M. DURAISELVAM	External Expert Members	
4	Dr. K. KRISHNAMOORTHY		
5	Mrs. C. NIRUPAMA	Industry / Corporate Sector	
6	Mr. BERTRAM GODWINPAUL IGNATIUS		
7	Dr. V. ANANDAKRISHNAN	Alumnus	
8	Prof. G. GURUMOORTHY	Internal Members	
9	Prof. N. RAMANUJAM		
10	Dr. V. SIVARAMAN		

Chairman - BoS (MECH)

CHAIRMAN

Board of Studies

Department of Mechanical Engineering
E.G.S. Pillay Engineering College,
(Autonomous)
Nagapattinam.

ATTESTED

Dr. S. RAMABALAN, M.E., Ph.D.,
PRINCIPAL

E.G.S. Pillay Engineering College,
Thethi, Nagore - 611 002.
Nagapattinam (Dt) Tamil Nadu.



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Department of Mechanical Engineering

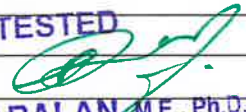
Action Taken for BOS Meeting Minutes held on 07.07.2017

Name of the Department	Mechanical Engineering
Name of the programmes	B.E- Mechanical Engineering
	M.E-Manufacturing Engineering
Meeting No	01
Date Time	07-07-2017&10 a.m
Venue	Mechanical seminar hall

- As per the BoS committee suggestion the following revisions are carried out

List of New courses Introduced in regulation 2017

Course Code	Course Name	Change details
B.E- Mechanical Engineering		
1701MA101	Engineering Mathematics-I	New Course
1701PH101	Applied Physics for Engineers	New Course
1701EN101	Technical English	New Course
1701CH102	Materials Chemistry	New Course
1701GE104	Fundamentals of Mechanical Engineering	New Course
1701GEX03	Programming in C	New Course
1701HS151	Physics and Chemistry Lab –I	New Course
1701GEX51	Programming in C Lab	New Course
1701GEX53	Workshop Practice	New Course
1701MA201	Engineering Mathematics II	New Course
1701PH203	Materials Science	New Course
1701CH201	Environmental Studies	New Course
1701GEX01	Basic Electrical and Electronics Engineering	New Course
1701GEX02	Engineering Graphics	New Course
1701GEX04	Engineering Mechanics	New Course
1701GEX52	Communication Skills Lab	New Course
1701HS251	Physics and Chemistry Lab II	New Course
M.E-Manufacturing Engineering		
1701MF101	Advanced Optimization Techniques	New Course
1702MF102	Polymers and Composite Materials	New Course
1702MF103	Materials Testing and Mechanical Characterization	New Course
1702MF104	Industrial Automation and Mechatronics	New Course
1702MF105	Robot Design and Programming	New Course
1703MF003	Micro Electro Mechanical Systems and Nano Technology	New Course
1704MF106	CAD/CAM Lab	New Course
1704MF107	Industrial Automation and Mechatronics Lab	New Course
1704MF108	Communication Skills Lab I	New Course
1701MF201	Advanced Machining Technology	New Course
1702MF202	Flexible Tooling and Automated Inspection	New Course
1702MF203	Theory of Metal Forming	New Course

ATTESTED

D.V. SAMBALAN, M.E., Ph.D.,
PRINCIPAL
E.G.S. Pillay Engineering College,
Thethi, Nagore - 611 002.
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Course Code	Course Name	Change details
1702MF204	Advances in Casting and Welding	New Course
1702MF205	Precision Machining	New Course
1703MF002	Flexible Manufacturing Systems	New Course
1704MF206	Metal Forming Lab	New Course
1704MF207	Technical Seminar	New Course
1704MF208	Communication Skills Lab II	New Course

List of CBCS/Electives for / offered by B.E. – Mechanical Engineering

ELECTIVES						
CodeNo.	Course	L	T	P	C	
DISCIPLINEELECTIVES						
ELECTIVES I, II, III, VII & VIII (MANUFACTURING STREAM)						
1703ME001	Non-Traditional Machining Processes	3	0	0	3	
1703ME006	Welding Technology	3	0	0	3	
1703ME005	Mechanical Behavior Of Materials	3	0	0	3	
1703ME007	Process Planning And Cost Estimation	3	0	0	3	
1703ME013	Composite Materials And Mechanics	3	0	0	3	
1703ME003	Flexible Manufacturing Systems	3	0	0	3	
1703ME010	Statistical Quality Control And Reliability Engineering	3	0	0	3	
1703ME015	Computer Integrated Manufacturing	3	0	0	3	
1703ME017	Advanced Casting And Forming Processes	3	0	0	3	
1703ME002	Industrial Safety Engineering	3	0	0	3	
1703ME011	Industrial Robotics	3	0	0	3	
1703ME009	Additive Manufacturing	3	0	0	3	
1703ME008	Industrial Maintenance Engineering	3	0	0	3	
1703ME004	Non- Destructive Testing	3	0	0	3	
1703MG001	Total Quality Management	3	0	0	3	
Electives V (Thermal Stream)						
1703ME020	Refrigeration And Air-Conditioning	3	0	0	3	
1703ME012	Renewable Energy Sources	3	0	0	3	
1703ME018	Power Plant Engineering	3	0	0	3	
1703ME021	Computational Fluid Dynamics	3	0	0	3	
1703ME019	Internal Combustion Engines	3	0	0	3	
Electives IX (Design Stream)						
1703ME022	Applied Hydraulics And Pneumatics	3	0	0	3	
1703ME025	Engineering Tribology	3	0	0	3	
1703ME023	Mechanical Vibrations	3	0	0	3	
1703ME024	Optimization Techniques	3	0	0	3	
1703ME016	Design For Manufacture And Assembly	3	0	0	3	
1703ME014	Design Of Jigs, Fixtures And Press Tools	3	0	0	3	
Open Electives						
1703ME026	Safety Engineering	3	0	0	3	

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 PRINCIPAL
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1703ME027	Maintenance Engineering	3	0	0	3
1703ME011	Industrial Robotics	3	0	0	3
1703ME024	Optimization Techniques	3	0	0	3
1704MG001	Entrepreneurship Development I	3	0	0	3
One Credit Courses					
1704ME028	Lean Manufacturing				
1704ME029	Non Destructive testing and materials				
1704ME030	Geometric Dimension and Tolerance				
1704ME031	Piping Engineering				
1704ME032	Problem Solving techniques				
1704ME033	Automotive exhaust system				
1704ME034	Railway Track Technology				
1704ME035	Foundation Course in Community Radio technology				
1704ME036	Machine For Oil Refineries				
1704ME037	Agriculture For Engineers				
1704ME038	Fisheries Engineering				
1704ME039	Oil and Natural Gas Engineering				
Value Added Courses					
1704ME040	Modeling using Solid Works				
1704ME041	Modeling using CATIAV5				
1704ME042	Modeling using CREO Parametric				
1704ME043	Core Java Programming				
1704ME044	Fundamentals of Engineering				
1704ME045	Tools Design and Manufacturing				
1704ME046	CNC Programming and Operations				
1704ME047	Welding Inspection and Testing				
1704ME048	Pump Inspection and Testing				
1704ME049	Product life cycle Management				
1704ME050	HVAC				
1704ME051	Design				

ATTESTED


Dr. S. RAMABALAN, M.E., Ph.D.,
PRINCIPAL

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Thethi, Nagore - 611 002.
Nagapattinam (Dt) Tamil Nadu.



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List of CBCS/Electives Offered for / by M.E – Manufacturing engineering

ELECTIVES

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
1	1703MF001	Automated Computer Integrated Manufacturing	3	0	0	3
2	1703MF002	Flexible Manufacturing Systems	3	0	0	3
3	1703MF003	MEMS and Nanotechnology	3	0	0	3
4	1703MF004	Design for Manufacture and Assembly	3	0	0	3
5	1703MF005	Mechanical Behavior of Materials	3	0	0	3
6	1703MF006	Manufacturing of Non-metallic products	3	0	0	3
7	1703MF007	Non-Destructive Evaluation	3	0	0	3
8	1703MF008	Tribology	3	0	0	3
9	1703MF009	Lasers in Manufacturing	3	0	0	3
10	1703MF010	Smart Materials and MEMS: Design and fabrication	3	0	0	3
11	1703MF011	Rapid Prototyping	3	0	0	3
12	1703MF012	Lean Manufacturing	3	0	0	3
13	1703MF013	Green Manufacturing	3	0	0	3
14	1703MF014	Industrial Ergonomics	3	0	0	3
15	1703MF015	Product Design and Development	3	0	0	3
16	1703MF016	Heat Treatment	3	0	0	3
17	1703MF017	Control of Manufacturing Processes	3	0	0	3
18	1703MF018	Materials Technology	3	0	0	3
19	1703MF019	Finite Element Methods for Manufacturing Engineering	3	0	0	3
20	1703MF020	Modeling of Manufacturing Processes	3	0	0	3
21	1703MF023	Research Methodology	3	0	0	3

OPEN ELECTIVES

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
1.	1703MF021	Project Management	3	0	0	3
2.	1703MF022	Product Life Cycle Management	3	0	0	3
3.	1703MF023	Research Methodology	3	0	0	3
4.	1703MF024	Modeling and Simulation	3	0	0	3
5.	1703MF025	Sustainable Manufacturing	3	0	0	3

Dr. S. RAMABALAN, M.E., Ph.D.,
PRINCIPAL

E.G.S. Pillay Engineering College,

Thothi, Nagore - 611 002,

Nagapattinam (TN), Tamil Nadu.



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ONE CREDIT COURSES (OCC)

Course Code	Course Name
1703MF030	Lean manufacturing
1703MF031	Non destructive testing and materials
1703MF032	Geometric dimension and tolerance
1703MF033	Piping engineering
1703MF034	Problem solving techniques
1703MF035	Automotive exhaust system
1703MF036	Railway track technology
1703MF037	Foundation course in community radio technology
1703MF038	Machine for oil refineries
1703MF039	Agriculture for engineers
1703MF039	Fisheries engineering
1703MF039	Oil and natural gas engineering

Value added courses (VAC)

Course	Course Name
1703MF040	Modeling using solid works (Industrial design)
1703MF041	Heating ,ventilation and air conditioning
1703MF042	Modeling using CREO parametric
1703MF043	Modeling using CATIA parametric
1703MF044	Oil and gas in Engineering and technology
1703MF045	LEVEL II NDT in radiographic technologies
1703MF046	Welding inspection and testing

ATTESTED


Dr. S. RAMABALAN, M.E., Ph.D.,
PRINCIPAL
E.G.S. Pillay Engineering College,
Thethi, Nagore - 611 002.
Nagapattinam (Dt) Tamil Nadu.



Chairman – BoS (Mech)

CHAIRMAN
Board of Studies
Department of Mechanical Engineering
-E.G.S. Pillay Engineering College,
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Minutes of Board of Studies (BoS) Meeting

Name of the Department	Mechanical Engineering.
Names of the Programmes	B.E. Mechanical Engineering. M.E. Manufacturing Engineering.
Meeting No	02
Date & Time	21.04.2018 & 09.30 A.M.
Venue	Board Room

The names of members present in the Board of Studies is given in Annexure – I

1. Chairman / BoS welcomed all members for the 2nd meeting of Board of Studies.
2. Chairman / BoS briefed the members about the Agenda.
 - Discussion and action taken about previous BoS Meeting.
 - To get approval for updated UG & PG (First Year) Syllabus for following subjects, Fundamentals of Mechanical Engineering, Workshop Practice, Advanced Optimization techniques and Metal Forming lab.
 - To finalize the syllabi of B.E Mech Programme from third to eighth semester and M.E Manufacturing Programme from third to fourth semester.
 - To finalize the syllabi of EEE department elective subjects related to mechanical.
 - Any other matters.
3. The following are the suggestions given by the member of Board of Studies.
 - The Board of Studies members have gone through the curriculum and syllabi of 3rd – 8th semester B.E Mech and 3rd to 4th semester M.E Manufacturing Engineering Programmes.

Under Graduate B.E Mechanical Engineering

ATTESTED

1. BoS Members accepted modification done in the following UG First year subjects, Fundamentals of Mechanical Engineering, Workshop Practice
2. The expert committee suggested that the syllabus of Fundamentals of Mechanical Engineering subject may be reduced.

Dr. S. RAMABALAN M.E., Ph.D.,
PRINCIPAL
E.G.S. Pillay Engineering College,
Thethi, Nagore - 611 002.



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3. Number of credits should be increased in the subject of Machine Drawing.
4. The sequential order of technical seminar in third semester must be changed, and also the subject name “Technical Seminar” may be changed as “Seminar Presentation” in the same semester.
5. The title of subject Engineering Metrology and Measurement may be changed as “Measurement and Metrology”.
6. The appropriate of PEOs and POs for IV and In-Plant training should be mentioned in the curriculum.
7. The open electives should be mentioned clearly in the curriculum itself.
8. Credit point table should be framed category wise.
9. The title of “Project Work” may be changed to “Project Viva Voce”.
10. The subject name thermodynamics engineering may be changed as “Engineering Thermodynamics” in the third semester curriculum, and also third law of thermodynamics to be included in the syllabus.
11. The topic transportation model to be included in the operation research course.
12. CAD lab syllabus to be updated.
13. CAM lab syllabus to be updated.
14. Title of the mini projects to be mentioned clearly as follows
Mini project I - Design and Fabrication
Mini Project II - Design and CAD modeling
Mini Project III - Simulation and analysis
15. Minimum one Website link must be included for all the courses along with references.
16. Number of hours should be in uniform for all theory subjects as well as problematic subjects.

Post Graduate: M.E:- Manufacturing Engineering

1. BoS Members accepted modification done in the following PG First year subjects, Advanced Optimization techniques and Metal Forming lab.
2. Expert committee recommended to increase the number of credits in project phase II.

ATTESTED


Dr. S. RAMABALAN, M.E., Ph.D.,
PRINCIPAL

E.G.S. Pillay Engineering College,
Nagore Post, Nagapattinam – 611 002,
Tamilnadu.



4. The following resolutions were passed

- It is resolved to recommend the curriculum and syllabi of third to eighth semester of B.E Mech and third to fourth semester of M.E Manufacturing Engineering Programmes to the Academic Council for approval.

The Chairman, Board of Studies thanked all the members for their valuable suggestions and coordination.

Date: 21/04/18

Place: Nagapattinam

Chairman (BoS)

University Nominee

Subject Expert
 (N. Alapammi)

Subject Expert
 (Dr. M. DURAISELVAM)

Subject Expert
 (L. VIJAYARAGHAVAN)

Subject Expert
 (L. VIJAYARAGHAVAN)

Industry Expert
 (BERTRAM GODWINPAUL. I)

Industry Expert cum Alumni
 (NIRUPAMA C)

Senior Faculty

Senior Faculty

Senior Faculty

ATTESTED

Dr. S. RAMABALAN, M.E., Ph.D.,
PRINCIPAL
 E.G.S. Pillay Engineering College,
 Thethi, Nagore - 611 002,
 Nagapattinam (Dt) Tamil Nadu.



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Department of Mechanical Engineering

Action Taken for BOS Meeting Minutes held on 21.04.2018

Name of the Department	Mechanical Engineering
Name of the programmes	B.E- Mechanical Engineering M.E-Manufacturing Engineering
Meeting No	02
Date Time	21-04-2018& 9.30 a.m
Venue	Board room

- As per the BoS committee suggestion the following revisions are carried out

List of New courses Introduced

Course Code	Course Name	Change Details
1701MA301	Engineering Mathematics III	New course
1702ME301	Engineering Thermodynamics	New course
1702ME302	Engineering Materials and Metallurgy	New course
1702ME303	Fluid Mechanics and Machinery	New course
1702ME304	Strength of Materials	New course
1702ME305	Manufacturing Technology – I	New course
1702ME351	Machine Drawing- I	New course
1702ME352	Manufacturing Technology Laboratory – I	New course
1704ME353	Technical Seminar I	New course
1702ME354	Fluid Mechanics and Machinery Lab	New course
1704GE351	Life Skills: Soft Skills	New course
1702MA403	Numerical Methods and Statistics	New course
1702ME401	Thermal Engineering	New course
1702ME402	Measurements and Metrology	New course
1702ME403	Kinematics of Machines	New course
1702ME404	Design of Machine Elements	New course
1702ME405	Manufacturing Technology –II	New course
1702ME451	Thermal Engineering Laboratory	New course
1702ME452	Manufacturing Technology Laboratory – II	New course
1704ME453	Technical Seminar II	New course
1704GE451	Life Skills: Verbal Ability	New course
1701MA502	Operations Research	New course
1702ME501	Heat and Mass Transfer	New course
1702ME502	Computer Aided Design	New course
1702ME503	Design of Transmission Systems	New course
1703ME001	Non - Traditional Machining Processes	New course
1703ME006	WELDING TECHNOLOGY	New course
1702ME551	Heat Transfer Laboratory	New course
1702ME552	Computer Aided Design Laboratory	New course
1704ME553	Mini Project I (Design and Fabrication)	New course
1704GE551	Life Skills: Aptitude I	New course
1701MGX01	Professional Ethics	New course
1702ME601	Finite Element Analysis	New course
1702ME602	Gas Dynamics and Jet Propulsion	New course


TESTED
[Signature]
DR. S. RAMABALAN, M.E., Ph.D.
PRINCIPAL
E.G.S. Pillay Engineering College,
Nagore - 611 002.
Nagapattinam (Dt) Tamil Nadu.

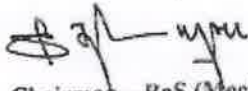


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1702ME603	Dynamics of Machines	New course
1703ME007	Process Planning And Cost Estimation	New course
1703ME026	Safety Engineering	New course
1702ME651	Dynamics of Machines Laboratory	New course
1702ME652	Computer Aided Analysis Laboratory	New course
1704ME653	Mini Project II	New course
1704ME654	Industrial Visit Presentation	New course
1704GE651	Life Skills: Aptitude II	New course
1702ME701	Automobile Engineering	New course
1702ME702	Mechatronics	New course
1702ME703	Computer Aided Manufacturing	New course
1701MGX02	Industrial Economics	New course
1703ME018	Power Plant Engineering	New course
1703ME011	Industrial Robotics	New course
1702ME751	Mechatronics Laboratory	New course
1702ME752	Computer Aided Manufacturing Laboratory	New course
1704ME753	Mini Project III (Simulation and analysis)	New course
1704ME754	In-Plant Training/Internship Presentation	New course
1704GE751	Life Skills : Competitive Exams Preparation	New course
1703ME015	Computer Integrated Manufacturing	New course
1703MG001	Total Quality Management	New course
1703ME014	Design Of Jigs, Fixtures And Press Tools	New course
1704ME851	Project Viva Voce	New course

ATTESTED


Dr. S. RAMABALAN, M.E., Ph.D.,
PRINCIPAL
E.G.S. Pillay Engineering College,
Thethi, Nagore - 611 002.
Nagapattinam (Dt) Tamil Nadu.


Chairman - BoS (Mech)

CHAIRMAN
Board of Studies
Department of Mechanical Engineering
E.G.S. Pillay Engineering College,
(Autonomous)
Nagapattinam.



Minutes of Board of Studies (BoS) Meeting

Name of the Department	Mechanical Engineering.
Names of the Programmes	B.E. Mechanical Engineering M.E. Manufacturing Engineering
Meeting No	03
Date & Time	12.05.2019 & 10.00 A.M.
Venue	Board Room

The names of members present in the Board of Studies is given in Annexure - I

1. Chairman / BoS welcomed all members for the 3rd meeting of Board of Studies.
2. Chairman / BoS briefed the members about the Agenda.
 - To get approval for UG First Year Syllabus for following subjects, Engineering Graphics, Manufacturing practices lab, and CAD lab.
 - To finalize the curriculum of 3rd - 8th Semester B.E Mech.
 - For UG and PG programme, The following value added courses are to be conducted
 - Modeling using CREO parametric
 - Hands on training in SOLIDWORKS (Industrial Design)
 - Heat ventilation and Air Conditioning
 - Any other matters.
3. The following are the suggestions given by the member of Board of Studies.
 1. Add Engineering Exploration subject in the curriculum.
 2. Update the reference section of engineering graphics with latest edition of books.
 3. Expand the syllabus of CAD lab. Do not mention specific software name in the syllabus.
 4. Change Manufacturing practices lab name as Basic workshop. Add few more experiments in Basic workshop lab.
 5. Add Mechatronics and Automation subject in the curriculum
 6. Names of the subjects in the curriculum and the syllabus are to be same.
 7. Mention the induction programme for 3 weeks in the curriculum.
 8. Number of lines in each module of the syllabus is to be same
 9. While reducing elective courses for the students who have completed online or industry sponsored courses, subject equality is to be considered.
 10. Add the following one or two credit courses in the curriculum:
Lean Manufacturing, Piping Engineering, CNC/Robot Programming, Logistics & Supply Chain Management, Additive Manufacturing, Python Programming.


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4. The following resolutions were passed

- It is resolved to recommend the curriculum and syllabi of First and Second semester of B.E Mechanical Engineering Programme to the Academic Council for approval.

The Chairman, Board of Studies thanked all the members for their valuable suggestions and coordination.

Date: Nagapattinam

Place: 12.05.2019

Chairman - BoS (Mech)

CHAIRMAN
Board of Studies
Department of Mechanical Engineering
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ATTESTED

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PRINCIPAL
E.G.S. Pillay Engineering College,
Thethi, Nagore - 611 002.
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Department of Mechanical Engineering

Action Taken for BOS Meeting Minutes held on 12.05.2019


Name of the Department	Mechanical Engineering
Name of the programmes	B.E- Mechanical Engineering M.E-Manufacturing Engineering
Meeting No	03
Date Time	12-05-2019 &10 a.m
Venue	Board room

As per the BoS committee suggestion the following revisions are carried out

List of revised courses from regulations 2017

Course Code	Course Name	Change Details	Revision
B.E –Mechanical Engineering			
1901MA104	Engineering Mathematics-I	Revision	4 modules changed
1901GEX01	Basic Electrical and Electronics Engineering	Revision	3 modules changed
1901GEX02	Engineering Graphics	Revision	4 modules changed
1901PHX51	Engineering Physics Lab	Revision	4 modules changed
1901MA204	Engineering Mathematics – II	Revision	3 modules changed
1901CH203	Materials Chemistry	Revision	4 modules changed
1901CHX51	Engineering Chemistry Lab	Revision	4 modules changed
1901GEX52	Computer Programming Lab	Revision	4 modules changed

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PRINCIPAL
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List of New courses Introduced in regulation 2019

Course Code	Course Name	Change Details
B.E –Mechanical Engineering		
1901PH101	Introduction to Mechanics	New course
1901GEX51	CAD Lab	New course
1901GEX52	Basic Electrical and Electronics Engineering Lab	New course
1901HSX51	Communication Skills	New course
1901GEX03	Programming for Problem Solving	New course
1901ENX01	English for Engineers	New course
1901GE201	Engineering Exploration	New course
1901GE253	Basic Workshop Lab	New course
1901HSX51	Communication Skill Lab	New course
1901GE252	Engineering Intelligence – II	New course

List of Electives for / offered by B.E– MECHANICAL ENGINEERING

Professional Elective Courses (PEC)

Course Code	Course Name	L	T	P	C	Maximum Marks			Category	
						CA	ES	Total		
Professional Elective Courses – I and III (Manufacturing stream)										
1903ME001	Non-traditional machining processes	3	0	0	3	40	60	100	PEC	
1903ME002	Advanced welding technology	3	0	0	3	40	60	100	PEC	
1903ME003	Process planning and cost estimation	3	0	0	3	40	60	100	PEC	
1903ME004	Composite materials and mechanics	3	0	0	3	40	60	100	PEC	
1903ME005	Flexible manufacturing systems	3	0	0	3	40	60	100	PEC	
1903ME006	Mechatronic systems	3	0	0	3	40	60	100	PEC	
1903ME007	Computer integrated manufacturing	3	0	0	3	40	60	100	PEC	
1903ME008	Advanced casting and forming processes	3	0	0	3	40	60	100	PEC	
1903ME009	Industrial safety engineering	3	0	0	3	40	60	100	PEC	
1903ME010	Industrial robotics	3	0	0	3	40	60	100	PEC	
1903ME011	Additive manufacturing	3	0	0	3	40	60	100	PEC	
1903ME012	Industrial maintenance engineering	3	0	0	3	40	60	100	PEC	

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PRINCIPAL

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Professional Elective Courses – II and V (Thermal stream)

1903ME013	Power plant engineering	3	0	0	3	40	60	100	PEC
1903ME014	Automobile engineering	3	0	0	3	40	60	100	PEC
1903ME015	Refrigeration and air-conditioning	3	0	0	3	40	60	100	PEC
1903ME016	Renewable energy sources	3	0	0	3	40	60	100	PEC
1903ME017	Cryogenic engineering	3	0	0	3	40	60	100	PEC
1903ME018	Gas dynamics and jet propulsion	3	0	0	3	40	60	100	PEC
1903ME019	Energy conservation and management	3	0	0	3	40	60	100	PEC
1903ME020	Internal combustion engines	3	0	0	3	40	60	100	PEC

Professional Elective Courses – IV (Design stream)

1903ME021	Applied hydraulics and pneumatics	3	0	0	3	40	60	100	PEC
1903ME022	Machine drawing	1	0	0	4	40	50	50	PEC
1903ME023	Instrumentation and control	3	0	0	3	40	60	100	PEC
1903ME024	Optimization techniques	3	0	0	3	40	60	100	PEC
1903ME025	Internal combustion engines	3	0	0	3	40	60	100	PEC

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PRINCIPAL
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Humanities, Social Science and management Elective Courses (HSSEC)

S. No.	Course Code	Name of the Course	Number of Hours / Week			Credit
			L	T	P	
Elective 1						
1.	1901MGX01	Total Quality Management	3	0	0	3
2.	1901MGX04	Principles of Management	3	0	0	3
3.	1901MGX05	Engineering Economics and Finance	3	0	0	3
4.	1901MGX06	Human Resource Development in IT	3	0	0	3
Elective 2						
1.	1901HS001	Innovation and Entrepreneurship Fundamentals	3	0	0	3
2.	1901HS002	Intellectual Property Rights for Engineers	3	0	0	3
3.	1901HS003	Startup Entrepreneurship	3	0	0	3
4.	1901HS004	Business Model Innovation	3	0	0	3
Elective 3						
1.	1901HS005	Social Entrepreneurship	3	0	0	3
2.	1901HS006	Design Thinking for Innovation	3	0	0	3
3.	1901HS007	Indian Patent Law and Patent Drafting	3	0	0	3
4.	1901HS008	IP Management and Commercialization	3	0	0	3

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OPEN ELECTIVES OFFERED BY THE DEPARTMENT OF MECHANICAL ENGINEERING

Course Code	Course Name	3	0	0	3	40	60	100	OE
1901MGX04	Principles of management	3	0	0	3	40	60	100	OE
1903ME010	Industrial robotics	3	0	0	3	40	60	100	OE
1903ME026	Nanotechnology and surface engineering	3	0	0	3	40	60	100	OE
1903ME027	Maintenance engineering	3	0	0	3	40	60	100	OE
1903ME028	Renewable energy sources	3	0	0	3	40	60	100	OE
1903ME029	Safety engineering	3	0	0	3	40	60	100	OE
1903ME030	Statistical quality control	3	0	0	3	40	60	100	OE
1903ME024	Optimization techniques	3	0	0	3	40	60	100	OE

ONE CREDIT COURSES (OCC)

Course Code	Course Name
1903ME030	Lean manufacturing
1903ME031	Non destructive testing and materials
1903ME032	Geometric dimension and tolerance
1903ME033	Piping engineering
1903ME034	Problem solving techniques
1903ME035	Automotive exhaust system
1903ME036	Railway track technology
1903ME037	Foundation course in community radio technology
1903ME038	Machine for oil refineries
1903ME039	Agriculture for engineers
1903ME039	Fisheries engineering
1903ME039	Oil and natural gas engineering

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Value added courses (VAC)

Course Code	Course Name
1903ME040	Modeling using solid works (Industrial design)
1903ME041	Heating ,ventilation and airconditioning
1903ME042	Modeling using CREO parameteic
1903ME043	Modeling using CATIAParameteic
1903ME044	Oil and gas in Engineering and technology
1903ME045	LEVEL II NDT in radiographic technologies
1903ME045	Welding inspection and testing

Chairman – BoS (Mech)

CHAIRMAN

Board of Studies

Department of Mechanical Engineering
-E.G.S. Pillay Engineering College,
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ATTESTED

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Minutes of Board of Studies (BoS) Meeting

Name of the Department	Mechanical Engineering.
Names of the Programmes	B.E. Mechanical Engineering. M.E. Manufacturing Engineering.
Meeting No	04
Date & Time	27.06.2020 & 11.00 A.M.
Venue / Platform	Google Meet App
Google meet link	https://meet.google.com/unm-ekoe-teb
Google Meet App Moderator (host)	Dr.S.Krishnamohan, Professor & Dean (Mechanical)

The names of members present in the Board of Studies is given in Annexure – I

1. Chairman / BoS welcomed all members for the 4th meeting of Board of Studies.
2. Chairman / BoS briefed the members about the Agenda.
 - To finalize the Second year (third & Fourth Semester) syllabi of B.E MechProgramme.
 - Any other matters.
3. The following are the suggestions given by the member of Board of Studies.

The Board of Studies members have gone through the curriculum and syllabi of 3rd & 4th semester

1. Add recent trends subject in the curriculum.
2. Add Operational Research Subject.
3. Add product design and development subject in the open elective
4. Number of Hours should be Changed 3 hours to 2 hours in the subject of Constitution of India
5. Students has to practical exposure in manufacturing design and also need industrial exposure
6. Add Programming subjects for the placement be like Python, C++, etc...
7. Allow students internship in 8th semester
8. Allow the students to addend the online NPTEL Courses
9. Add design of 6sigma subject in electives.
10. The syllabus of Universal Human Values and Ethics (Open Elective) is approved

ATTESTED

Dr. S. RAMABALAN, M.E., Ph.D.,
PRINCIPAL
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4. The following resolutions were passed

- It is resolved to recommend the curriculum and syllabi of third and fourth semester of B.E Mechanical Engineering Programme to the Academic Council for approval.

The Chairman, Board of Studies thanked all the members for their valuable suggestions and coordination.

Date: 27/06/2020

Place: Nagapattinam

Chairman - BoS (Mech)

CHAIRMAN
Board of Studies
Department of Mechanical Engineering
E.G.S. Pillay Engineering College,
(Autonomous)
Nagapattinam.

ATTESTED

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PRINCIPAL

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Department of Mechanical Engineering

Action Taken for BOS Meeting Minutes held on 27.06.2020

Name of the Department	Mechanical Engineering
Name of the programmes	B.E- Mechanical Engineering M.E-Manufacturing Engineering
Meeting No	04
Date Time	27-06-2020 & 11.00a.m
Venue/platform	Google meet app

- As per the BoS committee suggestion the following revisions are carried out

List of revised courses

Course Code	Course Name	Change Details	Revision
B.E –Mechanical Engineering			
1902ME301	Engineering Mechanics	Revision	3 Modules changed
1902ME302	Manufacturing Technology I	Revision	4 Modules changed
1902ME303	Fluid Mechanics & Machines	Revision	2 Modules changed
1902ME304	Strength of Materials	Revision	3 Modules changed
1902ME305	Thermodynamics	Revision	3.5 Modules changed
1902ME351	Fluid Mechanics & Machines lab	Revision	3.5 Modules changed
1902ME352	Strength of Materials lab	Revision	3 Modules changed
1902ME353	Manufacturing Technology Laboratory - I	Revision	3 Modules changed
1901MA402	Engineering Mathematics III	Revision	4 Modules changed
1902ME401	Engineering metrology & measurements	Revision	3 Modules changed
1902ME402	Thermal Engineering	Revision	2 Modules changed
1902ME403	Manufacturing Technology II	Revision	3 Modules changed
1902ME451	Thermal Engineering lab	Revision	4 Modules changed
1902ME452	Manufacturing Technology II lab	Revision	3 Modules changed
1904GE453	Engineering metrology & measurements lab	Revision	4 Modules changed

ATTESTED

[Signature]
Dr. S. RAMABALAN, M.E., Ph.D.,
PRINCIPAL
E.G.S. Pillay Engineering College,
Thethi, Nagore - 611 002.
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List of New courses Introduced

Course Code	Course Name	Change Details
1904GE351	Life Skills: Soft Skills	New course
1901MCX01	Environmental Science	New course
1901ME404	Biology for Engineers	New course
1904GE451	Life Skills: Verbal Ability	New course
1902MCX02	Constitution of India	New course

Chairman – BoS (Mech)

CHAIRMAN
Board of Studies
Department of Mechanical Engineering
-E.G.S. Pillay Engineering College,
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Nagapattinam.

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Minutes of Board of Studies (BoS) Meeting

Name of the Department	Mechanical Engineering.
Names of the Programmes	B.E. Mechanical Engineering. M.E. Manufacturing Engineering.
Meeting No	05
Date & Time	23.01.2021 & 11.45 A.M.
Venue / Platform	Google Meet App
Google meet link	https://meet.google.com/ahp-dsw-tkb
Google Meet App Moderator (host)	Dr.S.Krishnamohan, Professor & Dean (Mechanical)

The names of members present in the Board of Studies is given in Annexure – I

1. Chairman / BoS welcomed all members for the 5th meeting of Board of Studies.
2. Chairman / BoS briefed the members about the Agenda.
 - Finalizing the Third year and Final Year (Fifth, Sixth, Seventh and Eighth Semester) syllabi of B.E Mechanical Programme.
 - Finalizing the list of equipments required for all the laboratories.
 - Any other matters.
3. The following are the suggestions given by the member of Board of Studies.

The member of Board of Studies members have gone through the curriculum and syllabi of third year and Final Year and afford following suggestions:

1. Problem oriented subjects have to be given only 3 credits, if it is possible change may be applicable (as 4 credits)
2. The title of “Mini Project 1 & Mini Project 2” Should be changed as “Mini Project Phase 1 & Mini project phase 2”.
3. If the open elective course is not compulsory, then students need to have a chance take any profession core subject as elective.
4. CAM lab is available in the curriculum, but CAM related theory is missing; Only CIM subject available in electives. Hence CAM related theory is to be included.
5. It is suggested to Change the subject title “competitive exam preparation”.
6. Machine drawing subject is available in elective subjects. If possible it may be combined with CADA lab.

ATTESTED

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PRINCIPAL
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Thethi, Nagore - 611 002.
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7. Operation research subject is missing in curriculum. It has to be included.
8. Kinematics of Machines (6th semester) and Dynamics of Machines (7th semester) should be moved to 5th and 6th semester respectively.
9. Any topics related to Recent advancement in Industry 4.0 can be added.

4. The following resolutions were passed

- It is resolved to recommend the curriculum, syllabi and list of equipments required for all laboratories of 5th, 6th, 7th and 8th semester of B.E Mechanical Engineering Programme to the Academic Council for approval.

The Chairman, Board of Studies thanked all the members for their valuable suggestions and coordination.

Date: 23/01/2021

Place: Nagapattinam

Chairman - BoS (Mech)

CHAIRMAN
Board of Studies
Department of Mechanical Engineering
- E.G.S. Pillay Engineering College,
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Nagapattinam.

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PRINCIPAL
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Thethi, Nagore - 611 002.
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Department of Mechanical Engineering

Action Taken for BOS Meeting Minutes held on 23.01.2021

Name of the Department	Mechanical Engineering
Name of the programmes	B.E- Mechanical Engineering M.E-Manufacturing Engineering
Meeting No	05
Date Time	23.01.2021&11.45a.m
Venue/platform	Google meet app

- As per the BoS committee suggestion the following revisions are carried out

List of revised courses

Course Code	Course Name	Change Details	Percentage of Change
B.E –Mechanical Engineering			
1902ME501	Heat and Mass Transfer	Revision	3 modules changed
1902ME502	Design of Machine Elements	Revision	3 modules changed
1902ME503	Kinematics of Machines	Revision	4 modules changed
1902ME504	CAD	Revision	3.5 modules changed
1902ME551	Computer Aided Design And Analysis Lab	Revision	4 modules changed
1902ME552	Heat and Mass Transfer lab	Revision	3 modules changed
1902ME601	Materials science and Metallurgy	Revision	4.5 modules changed
1902ME602	Design ofTransmission system	Revision	3.5 modules changed
1902ME603	Dynamics of Machines	Revision	3 modules changed
1902ME651	Theory Of Machines Laboratory	Revision	3 modules changed
1902ME501	Heat and Mass Transfer	Revision	3 modules changed
1902ME502	Design of Machine Elements	Revision	3 modules changed
1902ME503	Kinematics of Machines	Revision	4 modules changed
1902ME504	CAD	Revision	3.5 modules changed
1902ME551	Computer Aided Design And Analysis Lab	Revision	4 modules changed
1902ME552	Heat and Mass Transfer lab	Revision	3 modules changed
1902ME601	Materials science and Metallurgy	Revision	4.5 modules changed
1902ME602	Design ofTransmission system	Revision	3.5 modules changed
1902ME603	Dynamics of Machines	Revision	3 modules changed
1902ME651	Theory Of Machines Laboratory	Revision	3 modules changed

ATTESTED

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PRINCIPAL
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List of New courses Introduced

Course Code	Course Name	Change Details
1903ME001	Non - traditional machining processes	New course
1902MCX03	Essence of Indian Traditional Knowledge	New course
1904GE551	Life Skills: Aptitude I	New course
1903ME018	Gas dynamics and jet propulsion	New course
1901MGX03	Operations Research	New course
1903ME010	Industrial robotics	New course
1904GE651	Life Skills: Aptitude – II&GD	New course
1904ME652	Mini project (Design and fabrication Project)	New course
1904ME653	Industrial Internship	New course
1903ME001	Non - traditional machining processes	New course
1902MCX03	Essence of Indian Traditional Knowledge	New course
1904GE551	Life Skills: Aptitude I	New course
1903ME018	Gas dynamics and jet propulsion	New course
1901MGX03	Operations Research	New course
1903ME010	Industrial robotics	New course
1904GE651	Life Skills: Aptitude – II&GD	New course
1904ME652	Mini project (Design and fabrication Project)	New course
1904ME653	Industrial Internship	New course

Chairman – BoS (Mech)

CHAIRMAN
Board of Studies

Department of Mechanical Engineering
-E.G.S. Pillay Engineering College,
(Autonomous)
Nagapattinam.

ATTESTED

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PRINCIPAL
E.G.S. Pillay Engineering College,
Thethi, Nagore - 611 002
Nagapattinam (Dt) Tamil Nadu.



Minutes of Board of Studies (BoS) Meeting

Name of the Department	Mechanical Engineering.
Names of the Programmes	M.E. Manufacturing Engineering.
Meeting No	06
Date & Time	11.07.2021 & 11.00 A.M.
Venue/ platform	Google meet app
Google meet	https://meet.google.com/fqf-xpuc-ooo
Google meet App Moderator (host)	Dr.S.Krishnamohan, Professor &Dean (Mechanical)

The names of members present in the Board of Studies is given in Annexure – I

1. Chairman / BoS welcomed all members for the 6th meeting of Board of Studies.
2. Chairman / BoS briefed the members about the Agenda.

- To finalize the new regulations(regulations 2021) and detailed curriculum for M.E Manufacturing Engineering.

3. The following are the suggestions given by the member of Board of Studies.

The Board of Studies members have gone through the curriculum and syllabi of M.E Manufacturing Engineering.

4. For PG programme, The following value added courses are to be conducted
 - Modelling using CREO parametric
 - Hands on training in SOLIDWORKS (Industrial Design)
 - Heat ventilation and Air Conditioning

Dr.G.SureshKannan

1. The credit for 3rd semester is 16 credits and wrongly printed as 12 in word document.
2. Elective courses are looks like UG program course.
3. Project for PG students must be individual.
4. Give Pedagogy Studies as audit course for PG students.

Dr.M.Duraiselvam

1. Include syllabus like Additive Manufacturing, IoT etc,

Dr.K.Krishnamoorthy

ATTESTED

1. Include latest reference book for all subjects,

2. Include latest manufacturing topics like Additive Manufacturing etc.,

Dr. S. RAMABALAN, M.E., Ph.D
PRINCIPAL

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Dr. Shanthakumar Mohan

1. Include computational course in curriculum.

Dr. Jagannathan

1. Suggested to include latest advanced topics related to Manufacturing.
2. Materials Technology syllabus needs to be upgrade.

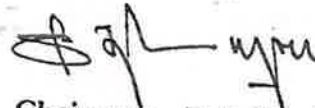
4. The following resolutions were passed

- It is resolved to recommend the curriculum, syllabi and list of equipments required for all laboratories of all semester of M.E Manufacturing Engineering Programme to the Academic Council for approval.

The Chairman, Board of Studies thanked all the members for their valuable suggestions and coordination.

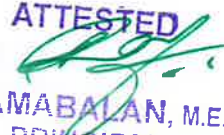
Date: 11/07/2021

Place: Nagapattinam


Chairman - BoS (Mech)

CHAIRMAN
Board of Studies
Department of Mechanical Engineering
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Nagapattinam.

ATTESTED


Dr. S. RAMABALAN, M.E., Ph.D.,
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Department of Mechanical Engineering

Action Taken for BOS Meeting Minutes held on 11.07.2021

Name of the Department	Mechanical Engineering
Name of the programmes	M.E-Manufacturing Engineering
Meeting No	06
Date Time	11.07.2021&11.00a.m
Venue/platform	Google meet app


As per the BoS committee suggestion the following revisions are carried out

List of revised courses

M.E-MANUFACTURING ENGINEERING			
Course code	Course name	Change details	Percentage of change
2102MF103	Computer Aided Manufacturing Laboratory	Revision	2.5 modules changed
2102MF104	Metal Forming and Metal Testing Laboratory	Revision	1.25 modules changed

List of New courses Introduced

Course code	Course name	Change details
2101MF101	Probability and Statistics in Manufacturing	New course
2102MF102	Modern Manufacturing Processes	New course
2103MF001	Program Elective-I(Theory of Metal Forming)	New course
2103MF007	Program Elective-II (Advanced Welding Technology)	New course
2101RMX01	Research Methodology and IPR	New course
2101AU001	Audit Course – I	New course
2102MF203	Materials Technology	New course
2103MF012	Program Elective – III(Production and Operations Management)	New course
2101AU002	Audit Course – II	New course
2102MF205	Modeling and Simulation Laboratory	New course
2104MF206	Mini Project with Seminar	New course

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Dr. S. RAMABALAN, M.E., Ph.D.,
PRINCIPAL
E.G.S. Pillay Engineering College,
Thethi, Nagore - 611 002.
Nagapattinam (Dt) Tamil Nadu.



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PROGRAM ELECTIVE COURSES (PEC)

SEMESTER I, ELECTIVE – I

SL. NO.	COURSE CODE	COURSE TITLE	CATEGORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
1.	2103MF001	Theory of Metal Forming	PEC	3	0	0	3	3
2.	2103MF002	Computer Aided Product Design	PEC	3	0	0	3	3
3.	2103MF003	Material Testing and Characterization	PEC	3	0	0	3	3
4.	2103MF004	Manufacturing Process Planning and Cost Estimation	PEC	3	0	0	3	3

SEMESTER I, ELECTIVE – II

SL. NO.	COURSE CODE	COURSE TITLE	CATEGORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
1.	2103MF005	Micro System Technology	PEC	3	0	0	3	3
2.	2103MF006	Design of Manufacturing Tools, Jigs and Fixtures	PEC	3	0	0	3	3
3.	2103MF007	Advanced Welding Technology	PEC	3	0	0	3	3
4.	2103MF008	Quality and Reliability Engineering	PEC	3	0	0	3	3

SEMESTER II, ELECTIVE – III

SL. NO.	COURSE CODE	COURSE TITLE	CATEGORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
1.	2103MF009	Finite Element Applications in Manufacturing	PEC	3	0	0	3	3
2.	2103MF010	Metal Cutting Theory and Practice	PEC	3	0	0	3	3
3.	2103MF011	Computer Integrated Manufacturing	PEC	3	0	0	3	3
4.	2103MF012	Production and Operations Management	PEC	3	0	0	3	3

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SEMESTER II, ELECTIVE-IV

SL. NO.	COURSE CODE	COURSE TITLE	CATEGORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
1.	2103MF013	Processing of Polymers and Composites	PEC	3	0	0	3	3
2.	2103MF014	Green Concepts	PEC	3	0	0	3	3
3.	2103MF015	Industrial Design And Ergonomics	PEC	3	0	0	3	3
4.	2103MF016	Industry 4.0 and Internet of Things	PEC	3	0	0	3	3

SEMESTER III, ELECTIVE -V

SL. NO.	COURSE CODE	COURSE TITLE	CATEGORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
1.	2103MF017	Surface Engineering and Coatings	PEC	3	0	0	3	3
2.	2103MF018	Solid Freeform Manufacturing	PEC	3	0	0	3	3
3.	2103MF019	Advanced Casting Technology	PEC	3	0	0	3	3
4.	2103MF020	Advanced Optimization Techniques	PEC	3	0	0	3	3

OPEN ELECTIVE COURSES [OEC]

SL. NO.	COURSE CODE	COURSE TITLE	CATEGORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
1.	2103MF021	Business Data Analytics	OEC	3	0	0	3	3
2.	2103MF022	Industrial Safety	OEC	3	0	0	3	3
3.	2103MF023	Operations Research	OEC	3	0	0	3	3
4.	2103MF024	Cost Management of Engineering Projects	OEC	3	0	0	3	3
5.	2103MF025	Composite Materials	OEC	3	0	0	3	3
6.	2103MF026	Waste to Energy	OEC	3	0	0	3	3

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AUDIT COURSES (AC)

SL. NO	COURSE CODE	COURSE TITLE	CATEGORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
1.	2101AU001	English for Research Paper Writing	AC	2	0	0		0
2.	2101AU002	Disaster Management	AC	2	0	0		0
3.	2101AU003	Sanskrit for Technical	AC	2	0	0		0
4.	2101AU004	Value Education	AC	2	0	0		0
5.	2101AU005	Constitution of India	AC	2	0	0		0
6.	2101AU006	Pedagogy Studies	AC	2	0	0		0
7.	2101AU007	Stress Management by Yoga	AC	2	0	0		0
8.	2101AU008	Personality Development Through Life Enlightenment Skills	AC	2	0	0		0
9.	2101AU009	Unnat Bharat Abhiyan	AC	2	0	0		0

ONE CREDIT COURSES (OCC)

Course Code	Course Name
2103MF030	Lean manufacturing
2103MF031	Non destructive testing and materials
2103MF032	Geometric dimension and tolerance
2103MF033	Piping engineering
2103MF034	Problem solving techniques
2103MF035	Automotive exhaust system
2103MF036	Railway track technology
2103MF037	Foundation course in community radio technology
2103MF038	Machine for oil refineries
2103MF039	Agriculture for engineers
2103MF039	Fisheries engineering
2103MF039	Oil and natural gas engineering

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PRINCIPAL
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Value added courses (VAC)

Course Code	Course Name
2103MF040	Modeling using solid works (Industrial design)
2103MF041	Heating ,ventilation and air conditioning
2103MF042	Modeling using CREO parametric
2103MF043	Modeling using CATIA parametric
2103MF044	Oil and gas in Engineering and technology
2103MF045	LEVEL II NDT in radiographic technologies
2103MF045	Welding inspection and testing

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E.G.S. Pillay Engineering College,
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Nagapattinam (Dt) Tamil Nadu.



Chairman – BoS (Mech)

CHAIRMAN
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