



PAAVAI ENGINEERING COLLEGE

(Autonomous)

NH 44, PACHAL, NAMAKKAL-637018

DEPARTMENT OF MECHATRONICS

ACTION TAKEN REPORT - STAKEHOLDERS FEEDBACK ON CURRICULUM AND SYLLABUS

Academic Year 2021-2022

Date: 08.06.2021

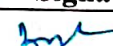
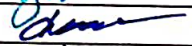
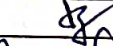
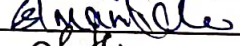

1. Feedback was collected.
2. The feedback was analysed and reviewed through Internal Committee.
3. The Proposed draft of syllabus was put forth to DAC. The Constructive suggestions were taken from the Stakeholders feedback.
4. After detailed deliberation and discussion, the proposed draft of syllabus with modification was presented to BoS for final Approval.
5. After BoS recommendations, the curriculum and syllabus will come into implementation.

Feedback was requested from following Stake holders

S. No	Stake Holders	No of feedback form received
1.	Students	113
2.	Teachers	11
3.	Alumni	22
4.	Employer	6

Course	Recommended by	Recommendation	Action Taken
Students Feedback			
	M.K. Srinath	Making a practical session or live demo classes can help to understand easily.	The recommendation is considered.
	D. Harichandar	Need skill development courses to meet industry needs.	The recommendation is considered.
	A. Alagupandi	Recent edition of text books required.	The recommendation is considered.
Faculty Feedback			
Advanced Manufacturing Processes	S. Manikandan	Unit IV title should change as Advanced Metal Forming Processes.	The recommendation is considered and forwarded to DAC.
PLC and Automation	C. Vibin Stalin	Course title required to change as Distributed Control System.	The recommendation is considered and forwarded to DAC.
Engineering Economics and Cost Analysis	Dr.R.T. Ajaykarthik	Include the content Concept of Just-in-Time production.	The recommendation is considered and forwarded to DAC.

Alumni Feedback			
	B. Tamilselvan	Electric Vehicles related contents must add into syllabus.	The recommendation is considered.
	A. Roshan Zamir	More of practical classes needs to be arranged.	The recommendation is considered.
	S.R. Sree Darshan	Entrepreneurship related activities required.	The recommendation is considered.
Employer Feedback			
	B.R. Rajeshhkumar	We should add recent technologies in our syllabus like ROS, OpenCV, Industrial Automations etc.,	The recommendation is considered.
	T. Balavignesh	Activities on Entrepreneurship development.	The recommendation is considered.
	T. Balakrishnan	Apart from theoretical knowledge. Syllabus should concentrate more in Practical knowledge to students.	The recommendation is considered.

S.No	Name of the Member	Designation	Role	Signature
1	Dr. D.R.P. Rajaratnam	HOD	Chairman/BOS	
2	Dr.R.T. Ajaykarthik	Associate Professor	Member	
3	R. Arunbabu	Assistant Professor	Member	
4	S. Manikandan	Assistant Professor	Member	
5	C. Sumithra	Assistant Professor	Member	


HOD/MCT

HEAD OF THE DEPARTMENT
MECHATRONICS ENGINEERING
PAAVAI ENGINEERING COLLEGE
NH-7, PACHAL (Po) NAMAKKAL - 637 018


PRINCIPAL

PRINCIPAL
PAAVAI ENGINEERING COLLEGE
NH-7, PACHAL (Po) NAMAKKAL Dis

PAAVAI ENGINEERING COLLEGE

(Autonomous)

DEPARTMENT OF MECHATRONICS

Minutes of Seventh Board of Studies Meeting

Venue: Online mode through Microsoft Teams platform

Date and Time: 28.07.2021, 11.00 a.m.

Minutes of the Seventh Board of Studies meeting was held on July 28th at 11.00 a.m. through online mode using Microsoft Teams platform.

The following members were present,

S.No	Name	Designation	Position in the Committee	College / University / Industry
1.	Dr.D.R.P.Rajarathnam	HOD & Prof / MCT	Chairman	Paavai Engineering College
2.	Dr. C. Balamurugan	Associate Professor	University Nominee	CEG Campus, Anna University, Chennai
3.	Dr. K.Balaji	Assistant Professor (Sr.) Grade 1	Academic Expert	Vellore Institute of Technology, Vellore
4.	Dr.P.M.Gopal	Assistant Professor	Academic Expert	Karpagam Academy of Higher Education, (Deemed to be University) Coimbatore
5.	Mr.T. Balavignesh	Design Engineer	Industry Expert	Karthigeya Moulds & Dies Pvt. Ltd. Chennai
6.	Mr. T. Balakrishnan	Procurement Officer – Parts & Accessories Division	Alumni	Isuzu Motors India Pvt Ltd, Chennai
7.	Mrs.G.Umamaheswari	ASP/EEE	Member	Paavai Engineering College
8.	Mr.S.Rajesh	ASP/CSE		
9.	Mr.N.Moorthi	AP/Civil		
10.	Dr. R.T.Ajaykarthik	ASP/MCT		
11.	Mr. R.Arunbabu	AP/MCT		
12.	Mr. S.Manikandan	AP/MCT		
13.	Mr.R.Karthick	AP/MCT		

Chairman - BoS introduced the members of the Board of Studies.
Chairman - BoS briefed the members about the agenda.

Curriculum and Syllabus have been framed based on the suggestions given by the Syllabus Review Committee members and Department Advisory Committee members is being presented before the BOS for approval.

1. The Curriculum and syllabus for the 5th and 6th semester of Regulations 2019 (For the students admitted during the academic year 2019-2020).
2. The Curriculum and syllabus for the 3rd and 4th semester of Regulations 2019 (For the students admitted during the academic year 2020-2021).
3. List of one credit and value added courses.
4. Panel of Examiners.

The following are the suggestions given by the Members of Board of Studies.

III SEMESTER COURSES

1. Fluid Mechanics and Thermal Sciences

- The title of Unit I, "Introduction to Fluid and Fluid Motion" can be changed as "Fluid Properties and Fluid Statics" and add the content of Fluid Statics.
- Title and content of Unit V should be changed. The suggested title is "Heat Transfer (Qualitative Treatment Only)".
- The title of Unit III, "Dimensional Analysis" can be changed as "Fluid Kinematics and Fluid Dynamics".

V SEMESTER COURSES

1. Advanced Manufacturing Processes (Professional Elective – I)

- The title of Unit I, "Advanced Machining Processes" can be changed as "Machining Processes".
- The title of Unit II, "Electro Chemical Machining" can be changed as "Advanced Casting Processes".
- The title of Unit III, "Thermo Electrical Machining" can be changed as "Advanced Welding Processes".
- The title of Unit IV, "Laser Materials Processing" can be changed as "Advanced Metal Forming Processes".
- The title of Unit V, "Special Processing Technologies" can be changed as "Rapid Prototyping".

VI SEMESTER COURSES

1. PLC and Automation

- The title of Unit V, "Introduction to SCADA and DC" can be changed as "Distributed Control System".

2. Additive Manufacturing (Professional Elective – II)

- The title of Unit I, "Introduction" can be changed as "Introduction to Additive Manufacturing".
- In Unit I, add the content "Types of materials for AM".
- In Unit II, include the contents "Topology Optimization, Lightweight Structure".
- In Unit III, include the content "Selective Laser Melting (SLM)".
- In Unit V, include the contents "Direct Metal Deposition (DMD), Electron Beam Based Metal Deposition".

3. Engineering Economics and Cost Analysis (Professional Elective – II)

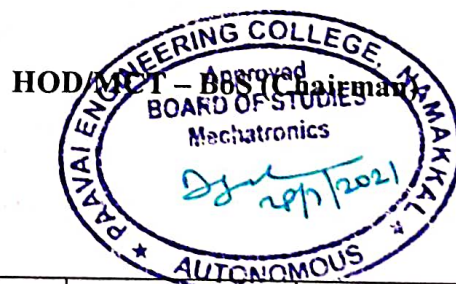
- In Unit I, include the contents, "Concept of Just-in-Time production, Cost of Goods Sold (COGS) - Definition - Accounting methods - Cost of Revenue vs. COGS - Operating Expenses vs. COGS - Limitations of COGS".

VIII SEMESTER COURSES

1. Internal Combustion Engines (Professional Elective – V)

- The title of the course, "Internal Combustion Engines" can be changed as "Electric and Hybrid Vehicles".

The above suggestions were given by the members and approved the syllabi for the 5th and 6th semester of 2019-20 admitted students, 3rd and 4th semester of 2020-2021 admitted students of Regulations 2019 (CBCS), one credit courses, value added courses and panel of examiners.



Position in the committee	Chairman	University Nominee	Academic Expert 1	Academic Expert 2	Industry Expert	Alumni
Name & Designation	Dr.D.R.P.Rajaratnam & HOD & Prof / MCT	Dr. C. Balamurugan & Associate Professor	Dr. K.Balaji & Assistant Professor (Sr.) Grade I	Dr.P.M.Gopal & Assistant Professor	Mr.T. Balavignesh & Design Engineer	Mr.T. Balakrishnan & Procurement Officer-Parts & Accessories Division
e-Signature						

PAAVAI ENGINEERING COLLEGE
(AUTONOMOUS)
DEPARTMENT OF MECHATRONICS
ACTION TAKEN REPORT
7th BOS Held on 28.07.2021

Date:23.08.2021

Based on the discussion and recommendations held during the Standing Committee meeting dated 20.08.2021.

The following suggestions have been implemented in the curriculum and syllabus.

S. No	Year	Course code & Name	Suggestions	Implementation
1.	II	MT20302 - Fluid Mechanics and Thermal Sciences	<p>1. The title of Unit I, "Introduction to Fluid and Fluid Motion" can be changed as "Fluid Properties and Fluid Statics" and add the content of Fluid statics: Pascal law - Hydrostatic law - Pressure measurements using Manometers and pressure gauges.</p> <p>2. Title and content of Unit V should be changed. The suggested title is "Heat Transfer (Qualitative Treatment Only)" and include the content Heat transfer through conduction and convection, Fourier's law of conduction - Problems on one dimensional heat conduction through plain walls, composite walls, cylinder walls, spheres. Extended surfaces: Fins. Problems on heat transfer through rectangular fin, triangular fin, circumferential fin, pin fin, fin efficiency, fin effectiveness. Heat transfer through radiation, Stefan Boltzmann Law, black body, grey body, shape factor. Types of Heat Exchangers.</p> <p>3. The title of Unit III, "Dimensional Analysis" can be changed as "Fluid Kinematics and Fluid Dynamics" and include the content Fluid Kinematics – Types of flow - velocity and acceleration - continuity equation. Fluid dynamics - equations of motion - Euler's equation along streamline - Bernoulli's equation – Applications - Venturi meter, Orifice meter, Pitot tube.</p>	Implemented
2.	III	MT19152 - Advanced Manufacturing Processes	<p>1. The title of Unit I, "Advanced Machining Processes" can be changed as "Machining Processes".</p> <p>2. The title of Unit II, "Electro Chemical Machining" can be changed as "Advanced Casting Processes".</p> <p>3. The title of Unit III, "Thermo Electrical</p>	Implemented

			<p>Machining” can be changed as “Advanced Welding Processes”.</p> <p>4. The title of Unit IV, “Laser Materials Processing” can be changed as “Advanced Metal Forming Processes”.</p> <p>5. The title of Unit V, “Special Processing Technologies” can be changed as “Rapid Prototyping”.</p>	
3.	III	MT19603 - PLC and Automation	The title of Unit V, “Introduction to SCADA and DC” can be changed as “Distributed Control System”.	Implemented
4.	III	MT19253 - Additive Manufacturing	<p>1. The title of Unit I, “Introduction” can be changed as “Introduction to Additive Manufacturing” and the add the content “Types of materials for AM”.</p> <p>2. In Unit II, “Design for Additive Manufacturing” include the contents “Topology Optimization, Lightweight Structure”.</p> <p>3. In Unit III, “Photo Polymerization and Powder Bed Fusion Processes” include the content “Selective Laser Melting (SLM)”.</p> <p>4. In Unit V, “Printing Processes and Beam Deposition Processes “include the contents “Direct Metal Deposition (DMD), Electron Beam Based Metal Deposition”.</p>	Implemented
5.	III	MT19251- Engineering Economics and Cost Analysis	In Unit I, “Demand and Supply Analysis” include the contents, “Concept of Just-in-Time production, Cost of Goods Sold (COGS) - Definition - Accounting methods - Cost of Revenue vs. COGS - Operating Expenses vs. COGS - Limitations of COGS”.	Implemented
6.	IV	MT19553- Internal Combustion Engines	The title of the course, “Internal Combustion Engines” can be changed as “Electric and Hybrid Vehicles”.	Implemented

The above implementations were effective from the academic year 2021 – 2022.


28/9/21
HOD/MCT