KPR Institute of Engineering and Technology



8th Board of Studies Meeting

Venue: Daffodil hall (Online)

Date: 29.11.2022

Meeting ID: https://meet.google.com/ogn-rhfc-fku

Time: 10.30 am

Agenda:

To discuss and pass

- Discussion on the minutes of previous BoS meeting and action taken
- Stakeholders inputs on Curriculum Design
- Curriculum and syllabi for V to VIII semesters of UG programme under Regulations 2021
- Professional Electives offered in different verticals under Regulations 2021
- Open electives offered to other branches under Regulations 2021
- Research methodology course
- Suggest Methodologies for innovative teaching and evaluation techniques
- MOOC / Online Courses
- Industry oriented courses (one credit courses)
- Value added courses
- Industrial Training / Internship
- Any other matter brought by the Chair

Members Present:

S.No	Name of the member with Designation	Category	Signature
1.	Dr. S.Ramesh Babu, Professor and Head Mechanical Engineering, KPRIET	Chairman	27 11/22
2.	Dr.S.Ayyappan Associate Professor (CAS) Department of Mechanical Engineering Government College of Technology, Coimbatore	University Nominee	29.11.202
3.	Dr.Santhakumar Mohan Associate Professor, Mechanical Engineering Dean, Industry Collaboration and Sponsored Research Indian Institute of Technology (IIT) Palakkad	Academic Expert-1	Online



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1	Dr PamuMurusan	Academia Francis	Online	
4.	Dr.RamuMurugan Associate Professor,	Academic Expert-2	Online	
	Mechanical Engineering, Amrita			
	VishwaVidyapeetham,			
	Coimbatore			
5.	Dr.A.Udayakumar	Professional society	Online	
	Principal Scientist,		OTTIMITE.	
	Material Science Division,		,	
	CSIR-National Aerospace			
	Laboratories,		1	
	Bangalore			
6.	Mr.V.Krishnamoorthy	Industry Expert	Online	
	Manager-R&D			
	Bimetal Bearings Ltd,	, z		
	18, race course road,			
	Coimbatore			
7.	Mr.VinuSargunan	Industry Expert (Special Invitee - 1)	Online	
	Manager- R&D	(Special litvitee - 1)		
	Eppinger Tooling Asia pvt ltd, SF 345/2A 2B, Kondampatti,			
	Coimbatore		\$ 8	
8.	Mr.V.Murali	Industry Expert	Online	
٥.	Manager- R&D	(Special Invitee - 2)	O'IIII'IO	
	Shanthi Gears Limtied,			
	Coimbatore	×		
9.	Mr.E.T.Dineshraju	Alumnus	Online	
	Engineer CAE			
	Valeo India Private Limited			
	Chennai.			
10.	Mr.S.RaviPrasath	Second Year	(I) A	
2.20	MECH, KPRIET	student	Jonismos	
11.	Mr.RA.Vibin	Third Year student	D & has	
40	MECH, KPRIET	Final management	Mar. AT	
12.	Mr.M.Gokul MECH, KPRIET	Final year student	Microsul	
13.	All the faculty Members of the Dep	artment		
10.	. This the faculty intermedia of the Department			

Minutes of the 8th Meeting of The Board of Studies:

The meeting started with the Chairman, Dr.S.RameshBabu, HOD, Department of Mechanical Engineering welcoming the members of the Board of Studies and presented the Vision, Mission, POs, PEOs, PSOs, Syllabus content of Curriculum and syllabi for V and VIII semesters of UG programme under regulations 2021.

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Following points were discussed at the Board of Studies.

RESOLUTIONS:

1. Action taken on the minutes of the 7th BOS meeting:

The minutes of the 7thBoS meeting and the action taken thereon are approved

2. Stakeholders inputs on Curriculum Design

- Suggested to add MATLAB in Finite element course.
- Industrial applications can be included in "Sensors and Transducers" course.
- Stability analysis can be added in "Measurements and Controls" course.
- Reverse engineering topic can be included in "Additive Manufacturing" course.
- Bio materials can be added as separate unit in "Smart Material" course.
- Electro rheological and magneto rheological fluids can be included in the smart material course as separate unit.
- Course name can be changed to "Smart Materials and Structures".
- Distributorless Ignition system, Coil-on-plug ignition system (CoP), Triple spark technology topics can be included in the Unit 2 of "Automotive Engine and Subsystems" course.
- Bio-fuels, hybrid engine technology topics can be included in the Unit 5 of "Automotive Engine and Subsystems" course.
- ARM Architecture and Pulse Width Modulation (PWM) topics can be included in "Embedded Systems and Programming" course.
- Latest developments in Space propulsion can be added in "Gas Dynamics and Jet Propulsion" course.
- Advancement in ultrasonic testing & radiography can be in included in the "Non-Destructive Testing of Materials" course.
- The topic on PLM can be added in the "CAD" course.
- Battery disposal methods can be added in "Electric and Hybrid Vehicles" course.
- Syllabus & curriculum are framed based on current scenario.
- Recent textbooks can be added for "Non-traditional machining process" course.
- Recent edition text books can be added for "Process Planning and Cost Estimation" course.



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The Curriculum and syllabi for V and VIII Semesters of UG Programme under Regulations 2021

Resolved to approve the following recommendation may be passed to the standing committee of the Academic Council. The curriculum and syllabi for V to VIII Semesters of UG Programme under Regulations 2021be passed with the following suggestions.

- (i) Dr.S.Ayyappan, University Nominee, reviewed the complete syllabus of V and VIII semester. He suggested to include recent books in the syllabus.
- (ii) Dr.Santhakumar Mohan, Subject Expert, minor degree credits can be reduce from 18 to 13 credits.
- (iii) Dr.Ramu Murugan, Subject expert, insisted to map courses such as Design clinic I, Design clinic II, Proto clinic II and Proto clinic II in to J component.
- (iv) Mr.Vinu Sargunan, Industry Expert (Special Invitee 1), suggested to add lubricants topic in the Design of machine elements or Design of Transmissions system courses.
- (v) Dr.A.Udayakumar, Professional society member, insisted to add few more PLC experiments in the Mechatronics Laboratory course.
- (vi) Mr.E.T.Dineshraju, Alumni, suggested to incorporate ANSYS workbench experiment in the Simulation and Analysis Lab course.
- (vii) Mr.V.Krishnamoorthy, Industry Expert, appreciated the entire curriculum.

4. Professional Electives offered in different verticals under Regulations 2022

Following are the suggestions given by BoS members regarding Professional Electives courses which shall be presented to the standing committee of the Academic Council for discussions

- Dr.A.Udayakumar, Professional society member, suggested to include topics such as various reinforcement phases, fibers and composite manufacturing technique's as separate unit in "Mechanics of Composite Materials" course.
- ii. Dr.Ramu Murugan, Subject expert, suggested to change the UNIT III title as surface treatment process in "Non-Traditional Machining Processes" course. He also suggested to remove Refrigeration and Air Conditioning course. The similar content is observed in "Heating, Ventilation and Air Conditioning" course.
- iii. Dr.S.Ayyappan, University Nominee, insisted to remove prototyping topic in "FMEA and Prototyping" course. He also suggested to add operational research as separate course.

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5. Open electives offered to other branches under Regulations 2021

Following are the suggestions given by BoS members regarding Open Electives offered by the department of Mechanical Engineering which shall be presented to the standing committee of the Academic Council for discussions

All the BOS members are recommended for further proceedings of open electives.

In addition to that Research methodology & Innovation and Product Development common courses across all programs is approved by the BOS members.

6. MOOC/ Online Courses , Industry oriented courses, Value added courses and Industrial Training / Internship

Board approved and recommended the following MOOC/ Online Courses, Industry oriented courses, Value added courses and Industrial Training / Internship suggested by DCC and the same can be submitted before the standing committee of the Academic Council for discussions:

All the BOS members are recommended for further proceedings of MOOC/ Online Courses, Industry oriented courses, Value added courses and Industrial Training / Internship.

7. Any other matter brought by the Chair

It is resolved that the following recommendations may be passed to the standing committee of the Academic Council.

- Dr.A.Udayakumar, Professional society member, appreciated the efforts taken by the Department for preparing R2021 syllabus.
- Dr.S.Ayyappan, University Nominee, suggested to review CO-PO articulation matrix for all the courses.
- Mr.V.Murali, Industry Expert (Special Invitee 2), appreciated the curriculum and syllabus of R2021 has been prepared is aligned with industry needs.

Chairman - BoS/MECH