KPR Institute of Engineering and Technology



Seventh Board of Studies Meeting

Venue: Mechanical board room (Online)

Date: 07.05 2022

Meeting ID: https://meet.google.com/sjx-ndsh-rzz

Time: 10.30 am

Agenda:

To discuss and pass

1. Action taken on the minutes of the 6th BOS meeting

2. Syllabi for semester III and IV of UG Programme under Regulations 2021

3. Open Elective Courses

4. Industry inputs on Curriculum Design

5. Industrial training / Internship

6. Industry oriented One Credit courses

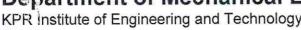
7. Online Courses and Value added courses

8. Any other matter brought by the Chair

Members Present:

S.No	Name of the member with Designation	Category	Signature 2	
1.	Dr. S.Ramesh Babu, Professor and Head Mechanical Engineering, KPRIET	Chairman	7 5 12	
2.	Dr. M.Om Kumar Professor, Mechanical Engineering, Anna University, Chennai.	University Nominee	Online	
3.	Dr.M.Duraiselvam Professor, Production Engineering, NIT Tiruchirappalli.	Academic Expert-1	Online	
4.	Dr. K.Rameshkumar Professor, Mechanical Engineering, Amrita Vishwa Vidyapeetham, Coimbatore	Academic Expert-2	Online	
5.	Dr. V.S.Saravanan, Jr. Vice President (Foundry) Indo Shell Cast Private Limited Coimbatore	Industry Expert (Special Invitee - 1)	Online	
6.	Dr. M.Suresh Associate Professor, Robotics and Automation Engineering, PSG Tech, Coimbatore	Academic Expert (Special Invitee - 2)	Online	
7.	Mr Mani Sankar Chakraborty Lead SME, Mechanical, L&T-EduTech, Chennai.	Industry Expert (Special Invitee - 3)	Online j	

Department of Mechanical Engineering KPR Institute of Engineering and Technology





8.	Mr. K.Vinoth Kumar	Industry Expert	Online
0.	Engineer, Craftsman Autmation,	(Special Invitee - 4)	O I III I C
V	Coimbatore	(Oposiai iiiiiios ii)	
9.	Dr. K.Ramkumar	Alumnus	Online
٦.	Post Doctoral Fellow,		25
(64)	Pohang University of Science &		
	Technology, Republic of Korea		<u> </u>
10.	Dr. K.Ravikumar	Faculty Member	V4 Jight
	Professor MECH, KPRIET		Of. Jones
11.	Dr.M.Shanmugaraja	Faculty Member	2. ml
	Professor MECH, KPRIET		Cy
12.	Dr. S.Ravishankar	Faculty Member	mu
	Associate Professor, MECH,		
	KPRIET		S. Ransharkan
43.	Mr.V.SatishChandran	Faculty Member	A
35	Associate Professor, MECH,	*	Tather.V
₫.	KPRIET		-04.
14.	Dr. M Kumar	Faculty Member	hot.
5	Associate Professor, MECH,		W. Kessy.
- 1	KPRIET		1111111
15.	Dr. B.Arulmurugan	Faculty Member	
- 1	Associate Professor, MECH,		B.A.
	KPRIET,MECH, KPRIET		
16.	Dr. P.Ganesan	Faculty Member	a lagrand
2	Associate Professor, MECH,	***	8.9
-	KPRIET,MECH, KPRIET		
17.	Dr. L.Rajeshkumar	Faculty Member	7-1
	Associate Professor (Sl.G.)		3/20
1 *	MECH, KPRIET		2001
18.	Dr.D.Balaji	Faculty Member	
_	Assistant Professor (SI.G),		at any
	MECH, KPRIET		Ø.
19.	Dr.L.Prabhu	Faculty Member	0.1
	Assistant Professor (SI.G),		X Vals
	MECH, KPRIET		
20.	Dr.P.ManojKumar	Faculty Member	
	Assistant Professor (SI.G),		
	MECH, KPRIET	- Carrier - Landers - Carrier - Carr	^
21.	Dr.M.Makeshkumar	Faculty Member	
	Assistant Professor (SI.G),		Myseum /M
7.2	MECH, KPRIET		1 - · v
22.	Dr.S.Sathish	Faculty Member	mr.
	Assistant Professor (Sl.G),		S. Usem
	MECH, KPRIET	Facult March	
23.	Dr.S.Dharani Kumar	Faculty Member	oxio
*2	Assistant Professor (SI.G),	14	AN TO
	MECH, KPRIET	Facility Masselves	
24.	Dr.R.Anandkumar	Faculty Member	DIX
	Assistant Professor (SR.G),		-Kir
L	MECH, KPRIET		

Department of Mechanical Engineering KPR Institute of Engineering and Technology



25.	Mrs.V.Bhuvaneswari Assistant Professor (SR.G), MECH, KPRIET	Faculty Member	Y.BS.
26.	Mr. N.Udhayakumar Assistant Professor (SR.G), MECH, KPRIET	Faculty Member	J. of-any
27.	Mr. S.Vasanthaseelan Assistant Professor (SR.G), MECH, KPRIET	Faculty Member	dy-
28.	Mr. C.Senthilkumar Assistant Professor (SR.G), MECH, KPRIET	Faculty Member	Bloom
29.	Mr. N.Vigneshkumar Assistant Professor (SR.G), MECH, KPRIET	Faculty Member	antif
30.	Mr. P.Boobalakrishnan (SR.G) Assistant Professor, MECH, KPRIET	Faculty Member	My Son I.
31.	Mr. T.Kannan (SR.G) Assistant Professor, MECH, KPRIET	Faculty Member	
. 32.	Mr. N.Karthi (SR.G) Assistant Professor, MECH, KPRIET	Faculty Member	M. Kuller
33.	Mr. S.Deepan Assistant Professor, MECH, KPRIET	Faculty Member	0/1
34.	Mr. S.Gokulkumar Assistant Professor, MECH, KPRIET	Faculty Member	S Gelfathan
35.	Mr. S.N.Dinesh Assistant Professor, MECH, KPRIET	Faculty Member	5. NO -
36.	Mr. E.Joel Assistant Professor, MECH, KPRIET	Faculty Member	+ nose
37.	Mr. D.Mohankumar Assistant Professor, MECH, KPRIET	Faculty Member	D.Mohor
38.	Mr. B.K.Saravanan Assistant Professor, MECH, KPRIET	Faculty Member	Brill
39.	Mr. R.Vishnuvardhan Assistant Professor, MECH, KPRIET	Faculty Member	OF
40.	Mr. P.Arunkumar Assistant Professor, MECH, KPRIET	Faculty Member	P. Anon
41.	Mr.V.U.Dhanoop MECH, KPRIET	Final Year student	Phys

KFR Institute of Engineering and Technology



42. Mr.B.Elambharathi Final Year student P. Gaubk

Minutes of the 7th Meeting of The Board of Studies:

The meeting started with the Chairman, Dr.S.Ramesh Babu, 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 III and IV semesters of UG programme under regulations 2021.

Following points were discussed at the Board of Studies.

RESOLUTIONS:

1. Action taken on the minutes of the 6th BOS meeting:

The minutes of the 6th BoS meeting and the action taken thereon are approved

2. The Curriculum and syllabi for III and IV 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 III and IV Semesters of UG Programme under Regulations 2021 be passed with the following suggestions.

- (i) Dr M. Omkumar, University Nominee, reviewed the entire syllabus of III and IV semester. He recommended for further proceedings.
- (ii) Dr. M. Duraiselvam, Subject Expert, insisted to added Introduction to moulding software can be added in "Manufacturing Technology I" course. He also suggested to add Robotic welding in "Manufacturing Technology I" course. He also suggested added Unconventional machine process as separate elective course
- (iii) Dr. M. Suresh, Special Invitee, suggested to add robot and gripper mechanisms in "Kinematics of Machinery" course.
- (iv) Mr Mani Sankar Chakraborty, Industry Expert, suggested to added Industry 4.0 and application of IOT as part of course. He also insisted to include the courses like engineering economics and project management in the syllabus.
- (v) Dr. K. Rameshkumar, Subject Expert, reviewed the syllabus of III and IV Semester. The following points are given to enrich the Syllabus for III and IV semester regulation 2021.

KPRIET Learn Beyond

KPR Institute of Engineering and Technology

- Biomaterials can be included in the Engineering Materials and Metallurgy course.
- Internet of Things course can be made as compulsory course.
- Insisted to added limits, fits and tolerances topics in the Computer Aided Modelling and Assembly Laboratory.
- He also suggested to add introduction to ADAMS in "Kinematic of machinery" course.
- Controls topics such as steady state characteristic, transient response and frequency domain analysis can be added any part of the syllabus.
- He also suggested to added Operational research course to higher semester.

3. Open Elective Courses offered to other departments

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

- (i) Dr. M. Duraiselvam, Subject Expert, insisted to add applications pan in the "Additive Manufacturing and 3D printing course".
- (ii) Mr. Mani Sankar Chakraborty, Industry Expert, suggested to ir clude application Applications of Reverse Engineering in the "Additive Manufacturing and 3D printing course".
- (iii) Dr. M. Suresh, Special Invitee, suggested to added KV mapping instead of mapping methods step counter method compound circuit design combination circuit design in UNIT III of Low cost automation course. He also insisted to add vibration bowl feeder topic in UNIT IV of Low cost autor ration course.
- (iv) Dr. M. Omkumar, University Nominee, insisted to add sustainable manufacturing, design for environment, sustainable manufacturing practices and hazards management topics in the open elective syllabus.

4. Industry inputs on Curriculum Design

Following are the suggestions given by industry members:

CAD software can be added to "Machine drawing" course.

Additive manufacturing and Internet of things can be added as part of syllat us.

CNC Programming course can be included in the lab courses.

KFR Institute of Engineering and Technology



5. Industrial training / Internship

Following are the suggestions given by BoS members regarding Industrial Training / Internship which shall be presented to the standing committee of the Academic Council for discussions:

- (i) Dr. M. Duraiselvam, Subject Expert, insisted utilizing the opportunities provided by IITs and NITs regarding student internships.
- (ii) Mr. K.Vinoth Kumar, Engineer, insisted to take Industrial Training / Internship in the IOT and automation based industries.

6. Industry oriented One Credit courses

Board recommended the following One Credit Courses to the standing committee of the Academic Council for discussions:

S. NO.	COURSE TITLE	
1	Advanced 3D Printing	
2	Advanced welding processes	
3	Electronics for industrial automation	
4	IoT using raspberry Pi	
5	Material Characterization	
6 Measurement of vibration and sound		
7	7 Practical CFD	

(i) Dr. K. Rameshkumar, Subject Expert, insisted to introduce size tolerancing and the industry practices prior toform tolerancing and GD&T.

7. Online Courses and Value added courses

Board recommended the following Online Courses and Value Added Courses to the standing committee of the Academic Council for discussions:

(i) Dr. K. Rameshkumar, Subject Expert, discussed the method of evaluation and prescription of MOOC courses and recommended the inclusion of MOOC courses in the curriculum.

Board recommended the following Value Added Courses to the standing committee of the Academic Council for discussions:

SINO	TITLE	
 Geometric Dimensioning and Tolerance 		
2.	Applied IOT	
3.	Heating Ventilating and Air Conditioning	
4.	Python Programming	
5.	ANSYS	
6.	Fusion 360	

KPR Institute of Engineering and Technology



7.	MATLAB Simulink				
8.	Solidworks				
9.	Hands or transmissio		Four	wheeler	and

8. 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.

- (i) Dr. M. Duraiselvam, Subject Expert, insisted to purchase robot welding machine. He appreciated the efforts taken by the Department for preparing R2021 syllabus.
- (ii) Mr. K.Vinoth Kumar, Engineer, insisted to create the product reliability testing facilities inside the college.
- (iii) Dr. K. Rameshkumar, Subject Expert, appreciated the curriculum and syllabus of R2021 that has been prepared is aligned with GATE 2022 syllat us.

The minutes of Programme Advisory Committee (PAC) meeting is submitted and discussed.

Chairman - BoS/MECH

4.74 Á *