Department of Computer Science and Engineering

KPR Institute of Engineering and Technology

KPRIET
Learn Beyond

Fourth Board of Studies Meeting

Venue: The Legend (Online)   Date: 07.05.2021

Meeting ID: http://meet.google.com/pan-moaq-sza   Time:10.15 AM to 12.15PM
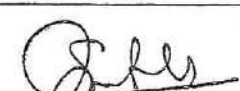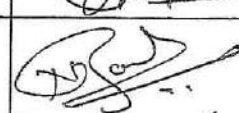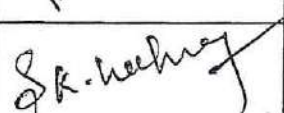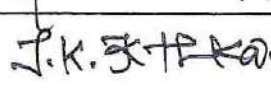
Agenda:

To discuss and pass
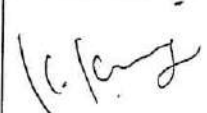
1. Action taken on the minutes of the 3rd BOS meeting
2. The Curriculum and syllabi for V to VIII Semesters of UG Programme under Regulations 2019
3. The Curriculum and syllabi for I to IV Semesters of PG Programme under Regulations 2019
4. Open Electives
5. Online Courses
6. Industrial Training / Internship
7. Industry Oriented Courses (One Credit Courses)
8. Value Added Courses
9. Methodologies for innovative teaching and evaluation
10. Panel of examiners for autonomous evaluation
11. Any other subject

Members Present:

S.No	Name of the member with Designation	Category	Signature
1.	**Dr.P.Thangaraj,** Professor and Head Department of CSE KPRIET	Chairmen	**Online**
2.	**Ms. Hema Gopal,** Vice - President, (Global Head IBM Centre of Excellence at Tata Consultancy Services, Vice President at TCS), Chennai	University Nominee	**Online**
3.	**Dr. Komondoor V Raghavan,** Associate professor, Department of CSE and Automation, IISc, Bangalore.	Academic Expert-1	**Online**
4.	**Dr. Sasikala R** HOD & Associate Professor, Department of Computational Intelligence VIT , Vellore	Academic Expert-2	**Online**

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5.	Mr. M. Palanisamy, Data Scientist 1, Honeywell Technology Solutions, Bengaluru.	Industry Expert	Online
6.	Mr. Sivaramakrishnan Senthatty, Vice President, Vertical Delivery Unit Head & Initiatives and Business Consulting, HCL Technologies, Infrastructure Service Division, Chennai	Industry Expert (Special Invitee - 1)	Online
7.	Mr. Ananda Roy, Principal Consultant at Xebia	Industry Expert (Special Invitee - 2)	Online
8.	Mr. P. Aswin Raam, Software Engineer, ES(H&I) Hexaware Technologies Ltd., Chennai	Alumnus	Online
9.	Dr. A. Balamurugan, Professor, CSE, KPRIET	Faculty Member	
10.	Dr. D. Surendran, Professor, CSE, KPRIET	Faculty Member	
11.	Dr. B. Gomathy Professor, CSE, KPRIET	Faculty Member	
12.	Dr. Vignesh V, Associate Professor, CSE, KPRIET	Faculty Member	
13.	Dr. M.SivaSangari, Assistant Professor (Sl.G), CSE, KPRIET	Faculty Member	
14.	Dr.A.Devipriya, Assistant Professor (Sl.G), CSE, KPRIET	Faculty Member	
15.	Dr.N.Jayanthi, Assistant Professor (Sl.G), CSE, KPRIET	Faculty Member	
16.	Mr. P.Suresh, Assistant Professor (Sl.G), CSE, KPRIET	Faculty Member	Online
17.	Mr. R.Sivaramakrishanan, Assistant Professor (Sr.G), CSE, KPRIET	Faculty Member	
18.	Ms.K.Vidhya, Assistant Professor (Sr.G), CSE, KPRIET	Faculty Member	

19.	Ms. R.H.Aswathy, Assistant Professor (Sr.G), CSE, KPRIET	Faculty Member	Online
20.	Mr.K. Kamaraj, Assistant Professor (Sr.G), CSE, KPRIET	Faculty Member	
21.	Ms. Salomi M, Assistant Professor (Sr.G), CSE, KPRIET	Faculty Member	Online
22.	Mr.Kandasamy, Assistant Professor (Sr.G), CSE, KPRIET	Faculty Member	
23.	Mr. V.Vijayaganth, Assistant Professor (Sr.G), CSE, KPRIET	Faculty Member	Online
24.	Mr. S.Kharthikeyan, Assistant Professor (Sr.G), CSE, KPRIET	Faculty Member	
25.	Mr. S.Srithar, Assistant Professor, CSE, KPRIET	Faculty Member	
26.	Mr.Nithin B.Raut, Assistant Professor, CSE, KPRIET	Faculty Member	
27.	Mr. M.Premkumar, Assistant Professor, CSE, KPRIET	Faculty Member	
28.	Ms. Geetha S K, Assistant Professor, CSE, KPRIET	Faculty Member	
29.	Ms. Kiruthika J K, Assistant Professor, CSE, KPRIET	Faculty Member	
Leave of absence Recorded:			
01.	Mr. Mr. Prasad Balakrishnan, Head Research and Development, Cray India @ Cray Inc, Bengaluru	Industry Expert (Special Invitee)	Absent

Minutes of the 4th Meeting of The Board of Studies:

The meeting started with the Chairman, Department of Computer Science and Engineering welcoming the members of the Board of Studies and meeting started with a Presentation on Vision, Mission, POs, PEOs, PSOs, Syllabus content of Curriculum under Regulations 2019 and the various features of the curriculum.

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Following points were discussed at the Board of Studies.

RESOLUTIONS:

1. **Action taken on the minutes of the 3rd BOS meeting:**

   The minutes of the 3rd BoS meeting and the action taken thereon are approved

2. **The Curriculum and syllabi for V to VIII Semesters of UG Programme under Regulations 2019**

   Resolved to approve that the following recommendation may be passed to the standing committee of the Academic Council that the Choice based Credit System based curriculum and syllabi for the B.E Computer Science and Engineering program under Regulations 2019 be passed with the following suggestions.

   (i) Dr. Komendoor V. Raghavan and Dr.Sasikala R suggested to give more tutorials rather than Lecture hours for Comprehension I and II.

   (ii) Mr.Ananda Roy suggested to include Statistics in Artificial Intelligence Course offered during V semester.

   (iii) Mr.M.Palanisamy suggested that large dataset can be used for the exercise 5 and Logistic Regression exercise shall be included in the Artificial Intelligence Laboratory course offered during V semester

   (iv) Mr.Ananda Roy suggested to include the overview of Front end and back end tools in Web Technology course offered during V semester.

3. **The Curriculum and syllabi for I to IV Semesters of PG Programme under Regulations 2019**

   Following are the suggestions given by BoS members regarding Curriculum and syllabi for M.E Computer Science and Engineering program under Regulation 2019 which shall be presented to the standing committee of the Academic Council for discussions:

   (i) Mr.M.Palanisamy recommended that Randomized and Approximation algorithms to be included in the Elective - Very useful for Research and Development

(ii) Mr.Sivaramakrishnan Senthatty suggested that Vehicular Networks syllabus to focus on developing autonomous application and recommended to see the practical application, and recent advances.

(iii) Dr.Sasikala recommended to include wireless sensor network course as prerequisite for Vehicular Networks course.

(iv) Mr.Sivaramakrishnan Senthatty suggested to focus on specific domain in Robotics course rather than general topics.

(v) Mr.Sivaramakrishnan Senthatty suggested to include a course related to transceiver and gateway.

4. Open Electives offered to other branches

Board Recommended the Open Electives offered by the department of CSE which shall be presented to the standing committee of the Academic Council for discussions and approval.

SL NO.	COURSE CODE	COURSE TITLE
1	U19CSX01	Programming in Java
2	U19CSX02	Data Base Systems
3	U19CSX03	Data Structures and Algorithms
4	U19CSX04	Programming in C and C++
5	U19CSX05	Mobile Application Development
7	U19CSX06	Computational thinking
8	U19CSX07	Digital Marketing
9	U19CSX08	Data Science
10	U19CSX09	Cloud Computing
11	U19CSX10	Ethical Hacking and Cyber Security
12	U19CSX11	AI for Smart Systems
13	U19CAX01	Cyber Physical Systems

14	U19CAX02	Unmanned Aerial Vehicle
15	U19CAX03	Accelerated Product Development and Incubation

5. Online Courses

Board Recommended the following Online Courses to the standing committee of the Academic Council for discussions:

S No.	Course Title	Duration	Credits
1	Deep Learning - IITKGP	12 Weeks	3
2	Data Mining	8 Weeks	2
3	Embedded Systems Design	12 Weeks	3
4	Real Time Operating System	4 Weeks	1
5	Introduction to Soft Computing	8 Weeks	2
6	Software Testing	4 Weeks	1
7	Data Science for Engineers	8 Weeks	2
8	Privacy and Security in Online Social Media	8 Weeks(in 12 weeks Duration)	3
9	Reinforcement Learning	12 Weeks	3
10	Information Security - 5 - Secure Systems Engineering	8 Weeks	2
11	Social Networks	12 Weeks	3
12	Python for Data Science	4 Weeks	2
13	Data Analytics with Python	12 eeks	3

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6. Industrial Training / Internship

The approved list of industries/Organization for Internship/ Industrial Training by the Department Consultative Committee shall be presented and approved by the board.

7. Industry Oriented Courses (One Credit Courses)

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

(i)   Scaled Agile Framework(SAFe)
(ii)   Test Automation using Selenium
(iii)   Full Stack Development
(iv)   UI/UX Design
(v)   React Framework
(vi)   Ember JS
(vii)   Angular JS
(viii)   REST API's using Django
(ix)   DevOps
(x)   PHP and MYSQL
(xi)   Web Designing
(xii)   Flutter: Mobile UI Framework

8. Value Added Courses:

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

(i)   REDHAT certified system administrator / REDHAT certified engineer.
(ii)   Amazon Web Services Certification on Solutions Architect
(iii)   Oracle Certification on Java fundamentals and Database
(iv)   Certified course on Foundations of Blockchain
(v)   VMware Certification on Virtualization Fundamentals
(vi)   IBM certified Courses
(vii)   Artificial intelligence and Machine learning certification by Xebia academy
(viii)   MATLAB

9. Methodologies for innovative teaching and evaluation
   ✓ The teaching and Learning Best Practices followed in the department of CSE are presented and was appreciated by the members of the board.
   ✓ Both the Formative and Summative evaluation procedures are presented and board recommended the same which shall be presented to the standing committee of the Academic Council for discussions and approval.

10. Panel of examiners for autonomous evaluation

Following are the suggestions given by BoS members regarding Panel of examiners for autonomous related activities:

- ✓ Utilize the expertise available in Premier Academic Institutions and Autonomous Institutions for End Semester Examinations.
- ✓ Industry Experts may be called for evaluating project wok.

11. Any other subject

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

- ✓ The mapping of the CO PO PSO for Regulation 2019 courses, along with the syllabus, was presented to the BoS members for their evaluation. The committee members expressed satisfaction with the rationale and subsequently granted their approval.
- ✓ Members of the board was appreciated the efforts taken by the department in framing the curriculum and syllabus by referring various universities and incorporated the industry inputs.
- ✓ Board of studies members were appreciated that curriculum comprises of both basics and emerging course to meet the industry expectation
- ✓ Ms.Hemagopal recommended that Two dimensional matrix will be framed for analyzing the gap between faculty member and latest trend courses.
- ✓ Ms.Hemagopal suggested to conduct a Design thinking course in Second year instead of First year.
- ✓ Mr.Aswin Ram suggested that an orientation or awareness program need to be conducted for students about elective stream and courses.
- ✓ Ms.Hema gopal suggested that the student's strength of maximum of 30 for Liberal arts course category.
- ✓ Liberal Arts course were appreciated and given suggestion to streamline and to maintain uniform difficulty level in the courses by Dr.Komondoor V Raghavan
- ✓ Mr.Ananda Roy recommended to consider some courses like Emotional Intelligence, Entrepreneurship, Positive attitude and Industrial Safety as mandatory courses.

Chairman – BoS/CSE