Department of Artificial Intelligence and Data Science
KPR Institute of Engineering and Technology

KPRIET
Learn Beyond

Fifth Board of Studies Meeting

Venue: Daffodil (Online)

Date: 07.05.2022

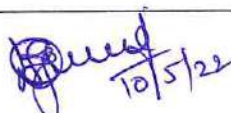Meeting ID: meet.google.com/ezj-tjtd-txr

Time: 9:00 AM

Agenda:

To discuss and pass

1. Action taken on the minutes of the 4th BoS meeting
2. Curriculum and syllabi for III and IV semesters of UG programme under Regulations 2021
3. Curriculum and syllabi for Vth and VIth semesters of UG programme under Regulation 2019
4. Open Elective Courses
5. Online Courses
6. Industrial training / Internship
7. Industry oriented courses
8. Value added courses
9. Methodologies for innovative teaching and evaluation
10. Panel of examiners for autonomous evaluation
11. Any other matter brought by the Chair

Members Present:

S.No	Name of the member with Designation	Category	Signature
1.	**Dr. N. Yuvaraj,** Professor and Head Department of AD KPRIET	Chairman	**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. R. Sasikala** HOD & Associate Professor, Department of Computational Intelligence VIT, Vellore	Academic Expert	**ONLINE**
4.	**Mr. Balagangadharan Balaji** Lead, Advanced Analytics, CoE, L&T Construction Chennai.	Industry Expert	**ONLINE**
5.	**Ms. S. Yamini Devi,** Project Lead, Mindtree Technologies, Bengaluru	Industry Expert	**ONLINE**

6.	**Dr. S. Sankar Ganesh** Associate Professor, AD, KPRIET	Faculty Member	
7.	**Dr. K. R. Sri Preethaa,** Assistant Professor (Sl.G), AD, KPRIET	Faculty Member	
8.	**Ms. G. Jenifa,** Assistant Professor (Sr.G), AD, KPRIET	Faculty Member	
9.	**Ms. Gitanjali Wadhwa,** Assistant Professor, AD, KPRIET	Faculty Member	

Minutes of the 5th Meeting of The Board of Studies:

The meeting started with the Chairman, Department of Artificial Intelligence and Data Science welcoming the members of the Board of Studies and meeting started with a presentation on Vision, Mission, PEOs, PSOs, POs, syllabus content of Curriculum under Regulations 2019 and Regulations 2021, highlighting the various features of the curriculum.

Following points were discussed at the 5th Board of Studies meeting.

RESOLUTIONS:

1. **Action taken on the minutes of the 4th BoS meeting:**
   The minutes of the 4th BoS meeting and the action taken by the department are following:
   (i)   Ms. Hema Gopal suggested that faculties should be expertise in lab handling and syllabi for a particular subject. – Implemented
   (ii)   Ms. Hema Gopal suggested to include complex real time experiments for laboratory course. – Implemented
   (iii)   Ms. Hema Gopal suggested to create data repository that will be helped for the students to do projects. – Implemented
   (iv)   Dr. R. Sasikala suggested to include lab component in IoT syllabi with industry experts. – Included
   (v)   Dr. R. Sasikala suggested to generate dataset from real time applications to perform ML design operations on the same. – Implemented
   (vi)   Mr. M. Palanisamy suggested to give laboratory components with math papers. – Implemented
   (vii) Ms. Yamini Devi suggested to include case study and industry projects for laboratory course. – Included

2. **The Curriculum and syllabi for Vth and VIth 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.Tech., Artificial Intelligence and Data Science program under Regulations 2019 be passed with the following suggestions.

- Ms. Hema Gopal suggested that faculties should be expert in lab handling and syllabi for a particular subject.
- Dr. R. Sasikala suggested to include case studies and mini project in the Natural language processing laboratory course. - Bos chairman replied to Dr. R. Sasikala that all the laboratory courses given in Regulations 2019 will end with projects.
- Dr. R. Sasikala also suggested to include Chat-bot like application to be added in the NLP laboratory course.
- Ms. S. Yamini Devi suggested to use Arduino for application oriented study in an IoT course.
- Mr. B. Balaji suggested to make industry partnership for the IoT course.
- Mr. B. Balaji suggested to include case studies of real-time application based on sensor data in the IoT course.
- Mr. B. Balaji suggested to include few agriculture based case-studies in the IoT course unit-5.
- Dr. R. Sasikala suggested to include the concepts of pre-trained models in the Deep learning principles and practices course.
- Dr. R. Sasikala suggested to remove some of the old concepts from the Computer vision and image processing course and update the syllabus with latest concepts.
- Mr. B. Balaji suggested to include few concepts of R programming for visualisations in Exploratory data analysis and Visualisation course.
- Ms. S. Yamini Devi suggested to include NoSQL and MongoDB related courses in professional electives.
- Dr. R. Sasikala suggested to include wireless sensor network related courses in professional electives.

3. **The Curriculum and syllabi for IIIrd and IVth Semesters of UG Programme under Regulations 2021**

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.Tech Artificial Intelligence and Data Science program under Regulations 2021 be passed with the following suggestions.

- Dr. R. Sasikala suggested to do modifications in Artificial Intelligence laboratory practical based on new open-source libraries.

- Mr. B. Balaji suggested R programming-based laboratory experiments in statistical based courses and to use R programming for solving the real time problems.
- Ms. S. Yamini Devi suggested to include IT related practical for Data science lab and suggested to end up the course with innovative industry related projects.

4. Open Electives offered to other branches

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

(i)   Mr. B. Balaji suggested to include few R programming based courses in Open elective for Regulations 2019

5. Online Courses

Board recommended the following Online courses to the standing committee of the Academic Council for discussions:

(i)   NPTEL
(ii)   Coursera
(iii)   Udemy
(iv)   PadhAI
(v)   LinkedIn
(vi)   Courses offered by XEBIA Academy.

6. 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)   BOS members suggested that students can use the opportunities of internships from building end-to-end products in collaboration with industry experts.
(ii)   Mr. B. Balaji suggested that students to do interdisciplinary Capstone projects during industrial training.

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)   Foundations of mobile application development.
(ii)   Excel for data science course
(iii)   NoSQL

(ii) Excel for data science course
(iii) NoSQL
(iv) Data visualization
(v)   Front end development concepts like React / NodeJS and AngularJS.

8. Value Added Courses:

Board recommended the following Value added courses to the standing committee of the Academic Council for discussions:

(i) Xebia training
(ii) Foreign languages

9. Methodologies for innovative teaching and evaluation

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

(i)   Dr. R. Sasikala suggested to generate dataset from real time applications to perform ML design operations

(ii) Ms. Hema Gopal suggested to create own data repository that will be helpful for the project / research work for the students.

(iii) Dr. R. Sasikala suggested to visit IIT laboratories for innovation and enhanced experiments and there have a glace over there laboratory course structure.
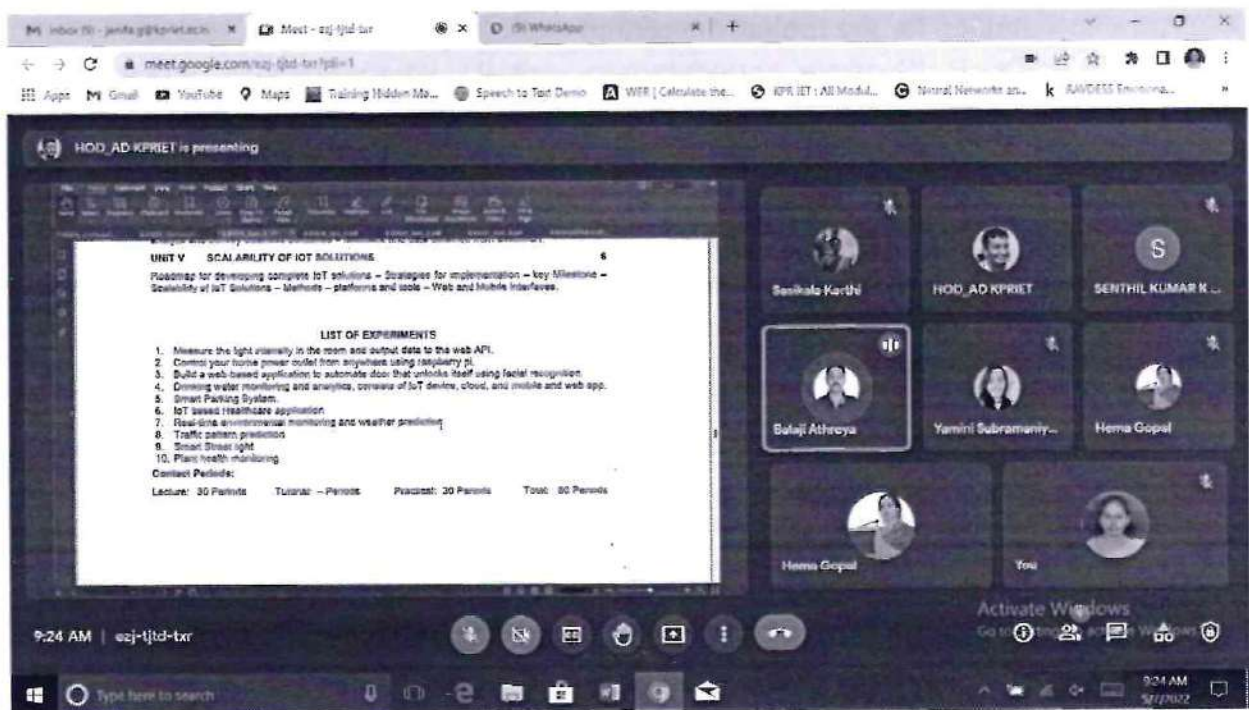
10. Panel of examiners for autonomous evaluation

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

-   No suggestions

11. Any other matter

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

S. No.	Subject	Regulations 2019	Regulations 2021	Feedback
1	Fundamentals of Artificial Intelligence	Semester-2	Semester-3	Based on the Lateral Entry students' inputs, both the subjects were shifted to 3rd semester.
2	Data Structures Design			
3	Database Design and Management	Semester-3	Semester-4	Based on the students' suggestions, separate theory and practical courses were introduced in R2021.

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Chairman – BOS/AD