Minutes of Meeting

Board of Studies Computer Science and Engineering - RGUKT

Mode of Meeting: Online (Google Meet) Date: 28th Oct 2022

**Members present to the meeting:**

| **S.No.** | **Name** | **Role** |
| --- | --- | --- |
| 1 | Prof. K Sandhya Rani, Director, RGUKT RK Valley | Chairperson |
| 2 | Prof. R.B.V Subramanyam, Professor,  Dept. of Computer Science and Engineering, NIT Warangal | Member |
| 3 | Prof. C.V. Jawahar, Professor  Dept. of Computer Science and Engg, IIIT Hyderabad | Member |
| 4 | Mrs. Kalavathi Singh, Principal Investigator, Thought Works | Member |
| 5 | Mrs. Ratnakumari Challa, Assistant Professor  Dept. of Computer Science and Engg, RGUKT RK Valley | Member |
| 7 | Mr. Rayala Upendar Rao, Assistant Professor  Dept. of Computer Science and Engg, RGUKT Nuzvid | Member |
| 8 | Mr. Sadu Chiranjeevi , HoD-CSE, RGUKT Nuzvid | Member |
| 9 | Mr. P. Harinath, HoD-CSE, RGUKT RK Valley | Member |
| 10 | Mr. Sampath Kumar, HoD-CSE, RGUKT Ongole | Member |
| 11 | Mrs. Laksmi Sree, HoD-CSE, RGUKT Srikakulam | Member |
| 12 | Ms. R. Sanju, Flipkart Software Developer (Alumni) | Member |
| 13 | Mr. Chintha Siva Prasad, Pre-final Year Student | Member |

Board of Studies (BoS) meeting was convened via Google Meet from RK Valley campus on 28th October, 2022. Prof. K. Sandhya Rani, Chairperson, BoS committee of CSE, first briefed the establishment of RGUKT’s CSE program, its activities, IT courses for PUC program and details of existing curriculum designed in the last BoS meeting held in 2020. Later, all the members have given inputs and suggestions for certain revisions in the proposed curriculum.

**The minutes of the meeting are given below:**

* It is suggested to have a uniform credit system for all disciplines across the university following AICTE curriculum model.

Action: It is already designed the curriculum in line with the AICTE model curriculum

* There are no major changes proposed in the structure of CSE curriculum except with few changes in the syllabus of some subjects as specified below.

**CSE – B.Tech Curriculum:**

* In E2 Sem-I, it is suggested to include “introduction to PL/SQL” in DBMS course and to remove “B Trees and Hashing” topics of Unit-V in view of duplication (as those are already covered in data structures).
* In E2 Sem-II, it is suggested to include “CSS concept” in Unit-1 of Web Technology course.
* The following references are suggested for the course Data Science with Python in E2 Sem-II.
* *Machine Learning using PYTHON*, Manaranjan Prashant, Wiley publications.
* *Python for Everybody*, Charles R. Severance, Shroff Publishers.
* *Head-First Python*, Paul Barry, 2nd edition, O’Reilly, 2016.
* *Learning Python*, Mark Lutz, 5th edition, O’Reilly.
* In E3 Sem-I, syllabus of Mathematical Foundations of Data Science (MFDS) course is redundant with other courses (Data Science with Python in E2 Sem-II, Calculus and Linear Algebra in E1 SemI and Probability and Statistics in E2 Sem-I). In view of this, it is suggested to remove MFDS course from the curriculum.
* It is suggested to shift Artificial Intelligence course from E3 Sem-II to E3 Sem-I in the place of MFDS.
* It is also suggested to shift Machine Learning course from E4 Sem-I to E3 Sem-II in the place of Artificial Intelligence.
* It is suggested to include an elective course in E4 Sem-1 in the place of Machine Learning course.
* It is suggested to offer a pool of elective courses in semester-wise for E3 and E4.

**List of Elective Courses for E3 Sem-I**

* + Data Mining and warehousing
  + Mobile Application Development
  + Distributed Computing
  + Advanced Computer Architecture
  + Advanced Java
  + Object Oriented Analysis and Design

**List of Elective Courses for E3 Sem-II**

* + Big Data Analytics
  + Distributed Operating Systems
  + Real Time Operating System
  + Embedded Systems
  + Digital Image Processing
  + Information Retrieval
  + Software Testing
  + Mobile Computing
  + Data Compression
  + Computer Graphics
  + Blockchain Technology

**List of Elective Courses for E4 Sem-I**

* + Unix Shell Programming
  + Deep Learning
  + VLSI
  + Optimization Techniques
  + Design Patterns
  + Cloud Computing
  + Internet of Things
  + Natural Language Processing
  + Computer Vision
  + Cyber Security

**List of Elective Courses for E4 Sem-II**

* + Human Computer Interaction
  + Bioinformatics
  + Applied Graph Theory
  + Software Reliability
  + Information Security
  + Soft Computing
  + Robotics
  + Digital Speech Processing
  + Social Networks
* It is suggested to offer the following pool of open elective courses from the Dept of CSE
  + Data Science with Python
  + Data Structures
  + Object Oriented Programming through Java
  + Web Technologies
  + Database Management Systems
  + Machine Learning
  + Artificial Intelligence
  + Blockchain Technology
  + Unix Shell Programming
  + Cloud Computing
  + Internet of Things
  + Natural Language Processing
  + Human Computer Interaction
  + Information Security
  + Big Data Analytics
  + Digital Image Processing
  + Computer Vision
  + Computational Science and Engineering with Python

**CSE Courses for Other Branch Students:**

* It is decided in the BoS of all other Engineering Programmes to offer the following computer science subjects in their curriculum:

| **Branch** | **Year & Sem** | **Course Name** | **Credits** |
| --- | --- | --- | --- |
| ECE | E1 Sem-I | Programming and Data structures | 3 |
| ECE | E1 Sem-I | Programming and Data Structures Lab | 1.5 |
| ECE | E1 Sem-II | Object Oriented Programming | 2 |
| ECE | E1 Sem-II | Object Oriented Programming Laboratory | 1.5 |
| EE | E1 Sem-I | Programming and Data Structures | 3 |
| EE | E1 Sem-I | Programming and Data Structures Lab | 1.5 |
| EE | E2 Sem-I | Object Oriented Programming | 2 |
| EE | E2 Sem-I | Object Oriented Programming Laboratory | 1 |
| CHE | E1 Sem-II | Programming and Data structures | 3 |
| CHE | E1 Sem-II | Programming and Data Structures Lab | 1.5 |
| CHE | E2 Sem-II | Object Oriented Programming | 3 |
| CHE | E2 Sem-II | Object Oriented Programming Laboratory | 1.5 |
| CE | E1 Sem-I | Basic Programming Language | 4 |
| CE | E1 Sem-I | Basic Programming Language Lab | 1.5 |
| CE | E1 Sem-II | Advanced Programming Course | 3 |
| CE | E1 Sem-II | Advanced Programming Lab | 1.5 |
| ME | E1 Sem-II | Programming and Data structures | 3 |
| ME | E1 Sem-II | Programming and Data Structures Lab | 1.5 |
| ME | E3 Sem-II | AI & ML | 3 |
| MME | E1 Sem-I | Programming and Data structures | 3 |
| MME | E1 Sem-I | Programming and Data Structures Lab | 1.5 |

**Information Technology subjects for Pre University Course (PUC):**

* It is resolved to follow the existing syllabus of Information Technology course for PUC Programme as it is without any revisions.