THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI

Department of Computer Science and Engineering

B.E. Computer Science and Engineering

Meeting on Consolidated Curriculum Review based on Feedback from Stake holders

Date 13.06.2022

Meeting Date & Time: 13.06.2022, 2.30PM – 3.30PM

Meeting Venue: CSE Seminar Hall

Members Present:

1. Dr. S.Mercy Shalinie, HDCSE
2. Dr. K. Sundrakantham, Professor
3. Mr. M.Sivakumar, Asso. Prof
4. Dr. C. Senthilkumar, Asso. Prof
5. Dr. B.Subbulakshmi, Asst. Prof
6. Dr. M.Vijayalakshmi, Professor
7. Dr. M. P. Ramkumar, Asst. Prof
8. Dr. G. Madhupriya, Asso. Prof
9. Dr. M.Nirmala Devi, Asst. Prof
10. Ms. Rajalavanya, Asst. Prof
11. Ms. C. Santhiya, Asst. Prof

Meeting Minutes

Stakeholders : Students, Course handling faculty, Alumni & Employer

Syllabus reviewed: B.E.(CSE) – 2018 Curriculum

Based on the analysis of curriculum review feedback obtained from students, course handling faculty members, CSE alumni and employers, the following points are considered for the review of curriculum and will be placed in the forthcoming Board of Studies meeting.

Action taken based on the feedback review for curriculum review:

The feedback from various stakeholders are used to identify the major revision in curriculum and new scheduling of courses is proposed accordingly. The syllabus for the courses are framed based on the feedback analysis. The changes incorporated are listed below:

No.	Stake holder Suggestions	Semester	Major Updates in Curriculum / syllabus
1	**Faculty, Student and Alumni** Python can be taught as a separate course	I	A new course on **22CS160-Foundations of Computer Programming** with python concepts is introduced as theory cum practical course.
2	**Faculty, Student and Alumni** Structural Programming concepts should be taught in depth		**Problem Solving and Programming (22CS240) and Programming Lab (22CS280)** courses are proposed focusing on structural programming concepts

3	**Faculty, Student and Alumni** Linux based foundation should be strongly provided	II	A new lab course on **Computer systems lab (22CS270)** and a course on **System Programming (22CS250)** are proposed.
4	**Student and Alumni** Virtual reality and Augmented reality can be included in curriculum		Revision on **Engineering Graphics course with the concepts of Extended Reality** is suggested. An elective course on **Interaction Design with XR** is proposed.
5	**Alumni and Employer** Curriculum can hold the knowledge of different programming principles	III	**22CS320 – Theory and Design of Programming Language** is introduced in which the different programming paradigms are taught.
6	**Faculty** Scheduling algorithms implementation can be minimized and Message Pipes can be included in the operating system course		Revision in **22CS360-Operating Systems** course is suggested to accommodate the given corrections.
7	**Faculty, Student, Alumni and Employer** A course on Full Stack Development is needed	IV	Revision in **22CS450 – Web Programming course** is suggested to include the concepts of full stack framework.
6	**Faculty** Students can be given more practice problems on the following topics like SQL, Normalization.		**22CS440 – Database Management Systems, 22CS470 - Databases Lab** may be revised to accommodate the suggestions
7	**Faculty and Student** Agile based framework can be taught in software engineering course.	V	Revision on **22CS560 – Software Engineering course** is suggested with the given comments
9	**Faculty:** Cryptography can be moved to core rather than elective	VI	A course on **22CS610 – Cryptography** is introduced as core.
10	**Faculty:** Distributed computing can be a separate course in core		**22CS620 – Distributed Computing and 22CS670 – Distributed Computing Lab** is introduced.
11	**Student and Alumni** Interaction and UX design-based subjects can be included	VII	**22CS720 – Human Computer Interaction** is introduced.
11	**Faculty, Student and Alumni** In Cloud Computing course containers-based topics and cloud tools can be included		Revision on existing **Cloud Computing course** is suggested

12	**Faculty, Student, Alumni and Employer** Recent technologies of App development framework to be added	Programme Electives	A course on **Cross Platform Mobile Application Development** is proposed as elective.
13	**Faculty, Student and Alumni** Large Language Models and Generative AI can be included		A course on **Generative Adversarial Networks and Deep Learning** is proposed as elective.
14	**Student and Alumni** Web 3.0 and metaverse based on industry need can be taught		A new elective course on **22CSRB0 – Web3 and Metaverse** is suggested.
15	**Student and Alumni** Block chain can be included		A new course on **Blockchain Security** is proposed.

Other activities for Curriculum Enrichment:

- Students are motivated to register online courses from NPTEL, TCE MOOC to enhance their technical knowledge
- New Industry supported courses are offered to learn the industry trends and technologies.
- Certification courses from IIT Bombay spoken tutorials helps the students to improve their programming and technical skills
- Joint teaching with academic experts from IITs, NITs motivates the students to take up challenging problems and provide solutions for them
- Adjunct faculty facilitates the students towards projects and Internships
- Participation in Hackathons improves the learning ability and also helps in skill development for students

Members Signature:

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BoS Coordinator **Program Coordinator** **HoD**

To be circulated among Faculty members