DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

MINUTES OF BOS MEETING

The 6th Meeting of the **Board of Studies (BoS)** of the department of Computer Science and Engineering was held on **24-01-2022**

MEMBERS OF BOS:

S. No	Member	Designation	Position in the BOS	Signature
1	Dr M Narender	Professor, Dept. of CSE, TKRCET	Chairman, BOS	
2	Dr.A Suresh Rao	Professor, Dean Academics & Vice Principal, TKRCET	HOD-CSE	24/1/22
3	Dr. G Venkata Rami Reddy	Professor, SIT JNTUH, Hyderabad	JNTUH Nominee	
4	Prof.R.B.V. Subramaanyam	Professor, Dept. of CSE, NIT Warangal	External Subject Expert-I	
5	Dr. M.A. Hameed,	Professor, Dept. of CSE, OU Hyderabad	External Subject Expert-II	
6	Dr.V. Sree Kumar	Principal Investigator Infosys Pvt. Ltd.	Industry Expert	
7	Dr V Krishna	Professor, Dept. of CSE, TKRCET	Internal Subject Expert-I	
8	Dr KSR Radhika	Professor, Dept. of CSE, TKRCET	Internal Subject Expert-II	
9	Dr. Ch B N Lakshmi - Professor	Professor, Dept. of CSE, TKRCET	Internal Subject Expert-III	

Agenda Points:

1. Approval of Course Structure for III,IV years of R20
2. Approval of Detailed Syllabus for III & IV year
3. Identification of Value Added Courses
4. Substitute subjects for Readmitted students
5. Action taken report and Approval of DAC minutes
6. Identification of Workshops and guest lecture
7. Approval of tools used in teaching and learning process to assess course outcomes
8. Other Points if any

Agenda 1: Approval of Course Structure for III, IV years of R20

Resolution:

The Board reviewed and discussed the proposed course structure for III and IV years of the B.Tech programs under the R20 regulations. After thorough examination and consideration of academic and industry requirements, the Board unanimously approved the Course Structure for III and IV years of R20 regulations, effective from the respective academic years of implementation.

Chairman BOS Dr M Narender Signature:	**HOD CSE** Dr A. Suresh Rao Signature: 24/1/22	**University Nominee** Dr. G Venkata Rami Reddy Signature:
External Subject Expert-I Prof. R. B.V Subramanyam Signature:	**External Subject Expert-II** Dr M.A. Hameed Signature:	**Industry Expert** Dr V. Sree Kumar Signature:
Internal Subject Expert-I Dr V Krishna Signature:	**Internal Subject Expert-II** Dr. KSR Radhika Signature:	**Internal Subject Expert-III** Dr. Ch B N Lakshmi Signature:

Semester-V:

S.No.	Course Classification	Course Code	Name of the subject	L	T	P	C	I	E	Total
1	PCC	C55PC1	Object Oriented Analysis and Design	03	00	00	03	30	70	100
2	PCC	C55PC2	Python Programming	03	00	00	03	30	70	100
3	PCC	C55PC3	Computer Networks	03	00	00	03	30	70	100
4	PCC	C55PC4	Compiler Design	03	00	00	03	30	70	100
5	PEC	C55PE1A	Distributed Databases	03	00	00	03	30	70	100
		C55PE1B	Distributed Computing							
		C55PE1C	Network Protocols							
		C55PE1D	Information Theory & Coding							
		C55PE1E	Software Process & Project Management							
		C55PE1F	Artificial Intelligence							
6	OEC	C55OE1	**OPEN ELECTIVE 1**	03	00	00	03	30	70	100
7	PCC	C55PC5	Object Oriented Analysis And Design Lab	00	00	02	01	30	70	100
8	PCC	C55PC6	Python Programming Lab	00	00	02	01	30	70	100
9	PW	C55PW1	Project-I	00	00	02	01	30	70	100
10	MC	MC05	MOOCs/ONLINE COURSE	00	00	00	S			
			Total Credits	**18**	**0**	**06**	**21**	**270**	**630**	**900**

*** Project-I:**
Student should develop back-end database tables for any chosen database application. It can be extension of project work carried out in VI semester with back end connections. The table developed should be more than a six-table database. Students can form a minimum of two and maximum of 4 in a group. The allocated teachers should guide in framing the problem, teach the back end technologies like Oracle during the lab hours allotted to them. The departmental academic committee based on the rubrics framed will do the evaluation of the project

Mandatory course: MOOCs/Online Course
The student should register for any one of the MOOCs course offered by NPTEL, COURSERA, UDEMY, student should submit the completion certificate to clear this course.

Chairman BOS
Dr M Narender
Signature:

HOD CSE
Dr A. Suresh Rao
Signature: 24/11/22

University Nominee
Dr. G Venkata Rami Reddy
Signature:

External Subject Expert-I
Prof. R. B.V Subramanyam
Signature:

External Subject Expert-II
Dr M.A. Hameed
Signature:

Industry Expert
Dr V. Sree Kumar
Signature:

Internal Subject Expert-I
Dr V Krishna
Signature:

Internal Subject Expert-II
Dr. KSR Radhika
Signature:

Internal Subject Expert-III
Dr. Ch B N Lakshmi
Signature:

Semester-VI

S.No.	Course Classification	Course Code	Name of the subject	L	T	P	C	I	E	Total
01	PCC	C56PC1	Data warehousing and Data Mining	03	00	00	03	30	70	100
02	PCC	C56PC2	Web Technologies	03	00	00	03	30	70	100
03	PEC	C56PE1A	Advanced Databases	03	00	00	03	30	70	100
		C56PE1B	Mobile Computing							
		C56PE1C	Wireless Networks							
		C56PE1D	Cryptography							
		C56PE1E	Software Requirements Estimation							
		C56PE1F	Machine Learning							
04	PEC	C56PE2A	Introduction to Analytics	03	00	00	03	30	70	100
		C56PE2B	Cloud Computing							
		C56PE2C	Mobile Ad hoc Networks							
		C56PE2D	Network Security							
		C56PE2E	Design Patterns							
		C56PE2F	Deep Learning							
05	HSC	CHSM2	Fundamentals of Management	03	00	00	03	30	70	100
06	PCC	C56PC3	Data warehousing and Data Mining Lab	00	00	02	01	30	70	100
07	PCC	C56PC4	Web Technologies Lab	00	00	02	01	30	70	100
08	HSC	CHSE3	Advance Communication Skills Lab	00	00	04	02	30	70	100
09	PW	C56PW2	Project-II*	00	00	02	01	30	70	100
10	MC	MC06*	Personality Development/ Skill Development/ Technical Events/Internships	00	00	00	S			
			Total Credits	**15**	**0**	**10**	**20**	**270**	**630**	**900**

***Project-II:**
This project is extension of project work carried out in V semester with back end connections. Front end should be developed with .NET, Python, or Java framework. The departmental academic committee based on the rubrics framed will do the evaluation of the project.

* MC06: The satisfactory report should be submitted either for 1 or for 2 given below

1. Personality Development/Skill Development: Student should participate in personality development/ Communication kills programme, student should submit the completion certificate for Clearing this course.
2. The student should participate in any technical event organized by the College/Organization/Industry and submit the participation certificate for clearing this course.

Chairman BOS
Dr M Narender
Signature:

HOD CSE
Dr A. Suresh Rao
Signature:

University Nominee
Dr. G Venkata Rami Reddy
Signature:

External Subject Expert-I
Prof. R. B.V Subramanyam
Signature:

External Subject Expert-II
Dr M.A. Hameed
Signature:

Industry Expert
Dr V. Sree Kumar
Signature:

Internal Subject Expert-I
Dr V Krishna
Signature:

Internal Subject Expert-II
Dr. KSR Radhika
Signature:

Internal Subject Expert-III
Dr. Ch B N Lakshmi
Signature:

Semester- VII

S.No.	Course Classification	Course Code	Name of the subject	L	T	P	C	I	E	Total
01	PCC	C57PC1	Linux Programming	03	00	00	03	30	70	100
02	PCC	C57PC2	Information Security	03	00	00	03	30	70	100
03	PEC	C57PE1A	Big Data Analytics	03	00	00	03	30	70	100
		C57PE1B	Soft Computing							
		C57PE1C	Storage Area Networks							
		C57PE1D	Cyber Security							
		C57PE1E	Software Quality Assurance							
		C57PE1F	Mobile Application Development							
04	PEC	C57PE2A	Predictive Analytics	03	00	00	03	30	70	100
		C57PE2B	Pervasive Computing							
		C57PE2C	Semantic Web							
		C57PE2D	Computer Forensics							
		C57PE2E	Software Testing Methodologies							
		C57PE2F	Internet of Things							
05	OEC	C57OE1	Open Elective-II	03	00	00	03	30	70	100
06	PCC	C57PC3	Linux Programming Lab	00	00	02	01	30	70	100
07	PCC	C57PC4	Information Security Lab	00	00	02	01	30	70	100
	PW	C57PW3	Major Project Phase-I*	00	00	04	02	30	70	100
	MC	MC07*	Competitive Exams	00	00	00	S			
			Total Credits	**15**	**0**	**08**	**19**	**240**	**560**	**800**

***Major Project Phase I:**
Students can form a group of minimum of two or maximum of four under the allocated guide, students group should choose a project title, for the chosen project title carryout a detailed literature survey, problem formulation, planning higher-level design. The PRC Committee as Continuous Internal Evaluation will make the project evaluation. The PRC committee consists of Head, Project Coordinator, One Senior Professor, One Associate Professor, and guide.

***MC07 Competitive Exams Mandatory Course:**
for completion of this course the student can submit the proof of appearing the competitive exams like, GATE, IELTES, GRE, TOEFL, CDAC, CDS, CAT, or any examination organized by NATIONAL TESTING AGENCY (NTA), or college in the level of NTA.. OR

The student should request for the provision of conducting technical seminar by the department. The topic of seminar should be the current technology of computer science. The Departmental Academic Committee (DAC) based on rubrics framed will do the evaluation.

Chairman BOS
Dr M Narender
Signature:

HOD CSE
Dr A. Suresh Rao
Signature: 24/1/22

University Nominee
Dr. G Venkata Rami Reddy
Signature:

External Subject Expert-I
Prof. R. B.V Subramanyam
Signature:

External Subject Expert-II
Dr M.A. Hameed
Signature:

Industry Expert
Dr V. Sree Kumar
Signature:

Internal Subject Expert-I
Dr V Krishna
Signature:

Internal Subject Expert-II
Dr. KSR Radhika
Signature:

Internal Subject Expert-III
Dr. Ch B N Lakshmi
Signature:

Semester-VIII

S.No.	Course Classification	Course Code	Name of the subject	L	T	P	C	I	E	Total
01	PEC	C58PE1A	Data Science	03	00	00	03	30	70	100
		C58PE1B	Quantum Computing							
		C58PE1C	Social Networks							
		C58PE1D	Blockchain Technology							
		C58PE1E	Agile Software Development							
		C58PE1F	Stack Technologies							
02	OEC	C58OE2	Open Elective III	03	00	00	03	30	70	100
03	OEC	C58OE3	Open Elective IV	03	00	00	03	30	70	100
04	PW	C58PW3	*Major Project Phase II	00	00	20	10	--	100	100
			Total Credits	09	00	20	19	90	310	400

***Major Project Phase II:**
The approved project in Major Project Phase 1 should be implemented, student should submit the progress of his implementation work in 2 phases, to the PRC(Project Review Committee). The PRC consists of Head, Project Coordinator, One Senior Professor, One Associate Professor, and guide. Upon approval in both the phases, the student is eligible to submit the final project report by completing proper documentation to the external viva voce.

Agenda 2: Approval of Detailed Syllabus for III & IV year – R20

Resolution:

The Board examined the detailed syllabus for III and IV year B.Tech programs under R20 regulations. After comprehensive review and discussion, the Board unanimously approved the detailed syllabus for all courses in III and IV years, to be implemented from the respective academic years under R20 regulations.

Chairman BOS
Dr M Narender
Signature:

HOD CSE
Dr A. Suresh Rao
Signature: 24/1/22

University Nominee
Dr. G Venkata Rami Reddy
Signature:

External Subject Expert-I
Prof. R. B.V Subramanyam
Signature:

External Subject Expert-II
Dr M.A. Hameed
Signature:

Industry Expert
Dr V. Sree Kumar
Signature:

Internal Subject Expert-I
Dr V Krishna
Signature:

Internal Subject Expert-II
Dr. KSR Radhika
Signature:

Internal Subject Expert-III
Dr. Ch B N Lakshmi
Signature:

Discussion:

The syllabus was compared with jntuh syllabus and benchmarked for accreditation requirements (NBA/NAAC). Suggestions from faculty, industry experts, and alumni were incorporated. BOS chairman, presented the detailed syllabus of third and fourth year subjects and BOS members given few suggestions to change the order of topics in the

Subject: Linux programming. BOS- Chairman updated and shown the modified syllabus.

Detailed syllabus for each subject is enclosed.

Agenda 3: Identification of Value Added Courses

Resolution:

The Board reviewed and discussed the proposed Value-Added Courses (VACs) aimed at enhancing students' technical knowledge, employability skills, and industry readiness. After thorough evaluation of their relevance and scope, the Board unanimously approved the identified Value-Added Courses to be introduced alongside the regular curriculum under R20 regulations, effective from the upcoming academic year.

Discussion:

The BOS discussed the importance of introducing Value-Added Courses (VACs) to enhance students' technical expertise, keep them updated with emerging technologies, and improve their employability skills. These courses are designed to provide hands-on learning experiences and exposure to industry tools beyond the prescribed curriculum.

The following VACs were identified for implementation:

1. **Machine Learning Applications using IBM Cloud and Watson Studio** – To provide students With practical exposure to building and deploying ML models using cloud-based tools and AI Platforms.

Chairman BOS Dr M Narender Signature:	**HOD CSE** Dr A. Suresh Rao Signature: 24/11/22	**University Nominee** Dr. G Venkata Rami Reddy Signature:
External Subject Expert-I Prof. R. B.V Subramanyam Signature:	**External Subject Expert-II** Dr M.A. Hameed Signature:	**Industry Expert** Dr V. Sree Kumar Signature:
Internal Subject Expert-I Dr V Krishna Signature:	**Internal Subject Expert-II** Dr. KSR Radhika Signature:	**Internal Subject Expert-III** Dr. Ch B N Lakshmi Signature:

2. **Flutter Framework** – To equip students with cross-platform mobile application development Skills, focusing on a single codebase for Android, iOS, and web platforms.

3. **Quantum Computing** – To introduce students to quantum algorithms, quantum logic, and Computing paradigms, preparing them for futuristic computing technologies.

The committee emphasized that these VACs will bridge the gap between academics and industry demands, fostering innovation and entrepreneurship among students.

Agenda 4: Substitute subjects for Readmitted students

Resolution:

The Board reviewed the academic records of students readmitted from R17 and R18 **Regulations into R20.** After detailed mapping of previously completed subjects with the R20 curriculum, the Board unanimously approved the list of substitute subjects to ensure smooth academic progression and curriculum equivalence. It was resolved that students without curriculum changes will continue with their existing subjects, while those with variations will follow the approved substitute subjects.

Discussion:

The Board reviewed the cases of students **readmitted from one regulation to another.** After careful analysis of their previous curriculum and completed coursework, it was confirmed that these students have no gaps or changes in their academic structure under the new regulations. Hence, **no substitute subjects are required** for their progression.

S. No	HT No.	Name of Student	Year/ Semester	Academic Year	Regulation (From–To)	Batch	Substitute Subject
1	18K91A05C4	MD SHOAIB	II-I	2021–22	R18 → R20	2020 Batch	NO SUBSTITUTE

Chairman BOS
Dr M Narender
Signature:

HOD CSE
Dr A. Suresh Rao
Signature: 22/11/22

University Nominee
Dr. G Venkata Rami Reddy
Signature:

External Subject Expert-I
Prof. R. B.V Subramanyam
Signature:

External Subject Expert-II
Dr M.A. Hameed
Signature:

Industry Expert
Dr V. Sree Kumar
Signature:

Internal Subject Expert-I
Dr V Krishna
Signature:

Internal Subject Expert-II
Dr. KSR Radhika
Signature:

Internal Subject Expert-III
Dr. Ch B N Lakshmi
Signature:

S. No	HT No.	Name of Student	Year/ Semester	Academic Year	Regulation (From–To)	Batch	Substitute Subject
2	18K91A05E6	NIMMALA VINAY RAJ GOUD	II-I	2020–21	R18 → R18	2019 Batch	NO SUBSTITUTE
3	18K91A05M7	VENKATA VIJAYA KRISHNA VENEPALLY	II-I	2020–21	R18 → R18	2019 Batch	NO SUBSTITUTE
4	18K91A0524	BADUGU NIKHIL	II-I	2020–21	R18 → R18	2019 Batch	NO SUBSTITUTE
5	18K91A0542	CHANREDDY PRANAY KUMAR REDDY	II-I	2020–21	R18 → R18	2019 Batch	NO SUBSTITUTE
6	18K91A0564	GADDAM RAMAKANTH	II-I	2020–21	R18 → R18	2019 Batch	NO SUBSTITUTE
7	20K91A05B0	MD K M QADRI	III-I	2023–24	R20 → R20	2021 Batch	NO SUBSTITUTE

Agenda 5: Action taken report and Approval of DAB and PAC minutes

Resolution:

The Board reviewed the **Action Taken Report (ATR)** on the decisions of previous meetings and noted satisfactory progress on all points. The Board also examined the minutes of the **Department Academic Committee (DAC)** meetings. After careful consideration, the Board unanimously approved the Action Taken Report and ratified the minutes of the DAC meetings, appreciating the efforts made towards continuous improvement in academic and administrative processes.

Discussion:

The BOS reviewed the Action Taken Report (ATR) on the decisions and resolutions of the previous BOS meeting. The report highlighted the successful implementation of curriculum updates, academic process improvements, and other departmental initiatives.

Chairman BOS
Dr M Narender
Signature:

HOD CSE
Dr A. Suresh Rao
Signature: 24/1/22

University Nominee
Dr. G Venkata Rami Reddy
Signature:

External Subject Expert-I
Prof. R. B.V Subramanyam
Signature:

External Subject Expert-II
Dr M.A. Hameed
Signature:

Industry Expert
Dr V. Sree Kumar
Signature:

Internal Subject Expert-I
Dr V Krishna
Signature:

Internal Subject Expert-II
Dr, KSR Radhika
Signature:

Internal Subject Expert-III
Dr. Ch B N Lakshmi
Signature:

Additionally, the Department Academic Committee (DAC) minutes were presented for discussion. The Board evaluated the recommendations provided by the DAC regarding curriculum enhancements, industry collaboration, and skill development initiatives. The members acknowledged that the DAC suggestions align with departmental objectives and the vision of the institution.

Agenda 6: Identification of Workshops and guest lectures

Resolution:

The Board discussed and finalized the plan for organizing workshops and guest lectures to enhance students' technical knowledge, industry exposure, and professional skills. After reviewing proposals from various departments, the Board unanimously approved the list of identified workshops and guest lectures to be conducted during the academic year, encouraging active participation of industry experts and academicians to bridge the gap between curriculum and industry requirements.

Discussion:

The BOS members discussed the need to organize **workshops and guest lectures** to enhance students' practical knowledge, industry exposure, and professional skills. Emphasis was placed on inviting **industry experts, academicians, and researchers** to provide insights into current trends, emerging technologies, and real-world applications.

Suggestions included sessions on:

- **Emerging Technologies:** Artificial Intelligence, Machine Learning, IoT, Cloud Computing, Cybersecurity.
- **Skill Development:** Programming skills, project-based learning, soft skills, and career guidance.
- **Research and Innovation:** Entrepreneurship, innovation challenges, and academic research trends.

Agenda 7: Approval of tools used in teaching and learning process to assess course outcomes

Resolution:

Chairman BOS Dr M Narender Signature:	**HOD CSE** Dr A. Suresh Rao Signature: 22/11/22	**University Nominee** Dr. G Venkata Rami Reddy Signature:
External Subject Expert-I Prof. R. B.V Subramanyam Signature:	**External Subject Expert-II** Dr M.A. Hameed Signature:	**Industry Expert** Dr V. Sree Kumar Signature:
Internal Subject Expert-I Dr V Krishna Signature:	**Internal Subject Expert-II** Dr. KSR Radhika Signature:	**Internal Subject Expert-III** Dr. Ch B N Lakshmi Signature:

The BOS approved the proposed tools for assessing Course Outcomes. Faculty members are encouraged to integrate these tools into their teaching plans and submit outcome attainment reports for each course at the end of every semester.

Discussion:
The BOS deliberated on the importance of systematically using assessment and evaluation tools to measure Course Outcome (CO) attainment in line with Outcome-Based Education (OBE). The members reviewed various tools and techniques to ensure transparency, fairness, and accuracy in evaluating student performance.

The following assessment tools and calculation were discussed:

Direct Assessment Tools:
Internal assessments, quizzes, assignments, lab performance, mini-projects, semester exams.

Indirect Assessment Tools:
Student feedback, exit surveys, alumni feedback, employer feedback.

Direct CO attainment calculation:
Direct attainment of CO = (0.2*mid-term+0.1*assignment) *0.8+ (0.7 * semester End Examinations) *0.2

Indirect CO attainment calculation:
Indirect attainment of CO = Average of Course end Survey given by all the students for all the

Course Outcomes of each course.
Overall CO attainment = 0.9* Direct attainment of CO + 0.1* Indirect attainment of CO.

Continuous Improvement Assessment Methodology:
In view of Change in classification composition of Course structure and change in Academic Regulations of R20, the Continuous Improvement assessment methodology fixes targets across the course outcomes are as follows, Target: Minimum is 40% of marks (ie,, minimum pass mark) Course Outcome Attainment is given with 3 levels
R20(21 Batch) (level3 >=65%, level2>=55% and level 1<55%).

Chairman BOS Dr M Narender Signature:	**HOD CSE** Dr A. Suresh Rao Signature: 21/1/22	**University Nominee** Dr. G Venkata Rami Reddy Signature:
External Subject Expert-I Prof. R. B.V Subramanyam Signature:	**External Subject Expert-II** Dr M.A. Hameed Signature:	**Industry Expert** Dr V. Sree Kumar Signature:
Internal Subject Expert-I Dr V Krishna Signature:	**Internal Subject Expert-II** Dr. KSR Radhika Signature:	**Internal Subject Expert-III** Dr. Ch B N Lakshmi Signature:

For the overall Programme the PO attainment target should be as follows: 80% of Programme Articulation Matrix.

Agenda 8: Other Points if any

Resolution:
The Board invited members to raise any additional points for discussion. No further points were brought forward, and the agenda was concluded with appreciation for the active participation and contributions of all members.

HOD
Department of CSE

Copy To:
1. All the members of BOS
2. Principal
3. Dean (Academics)

Chairman BOS
Dr M Narender
Signature:

HOD CSE
Dr A. Suresh Rao
Signature:

University Nominee
Dr. G Venkata Rami Reddy
Signature:

External Subject Expert-I
Prof. R. B.V Subramanyam
Signature:

External Subject Expert-II
Dr M.A. Hameed
Signature:

Industry Expert
Dr V. Sree Kumar
Signature:

Internal Subject Expert-I
Dr V Krishna
Signature:

Internal Subject Expert-II
Dr. KSR Radhika
Signature:

Internal Subject Expert-III
Dr. Ch B N Lakshmi
Signature: