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DEPARTMENT OF INFORMATION TECHNOLOGY

Date: 02/07/2021

Board of Studies Meeting

Minutes of Meeting

Board of Studies Meeting (BOS) of department of Information Technology is conducted on 02nd July 2021 through virtual meeting (Zoom Meeting Platform).

Agenda of the BOS Meeting:

1. To finalize R21 B.Tech. Information Technology programme curriculum

2. Any Point with the permission of chair

The following members attended the meeting:

S.No.	Name & Address of the Expert	Contact Details	Member
1	**Dr. K.V.Krishna Kishore,** HOD, Dean, Lib and IT Services, Department of Information Technology VFSTR Deemed to be University.	Mobile : 9490647678 Mail-id: kishorekvk_1@yahoo.com; hodit@vignan.ac.in	BoS Chairman Internal Member
2	**Dr.C.Raghavendra Rao,** Professor, University of Hyderabad, Hyderabad	Mobile : 9247465125 Mail-id: crrcs@uohyd.ernet.in	External Member
3	**Dr. Ramesh Babu Battula,** Associate Professor, Department of Computer Science and Engineering, Malaviya National Institute of Technology(MNIT), Jaipur.	Phone:+91-9989865216; +91-9549654395; +91-8562832025 Mail-id: rbbattula.cse@mnit.ac.in	External Member
4	**Mr. D.Sreeram Sastry** Senior Principal Applications Engineer, Google, Hyderabad.	Phone:9849713371 Mail-di:sastry.dvsr@gmail.com	External Member
5	**Mr. Chilli Anil Kumar** Scientist –E, CAIR DRDO C V Raman Nagar, Bengaluru	Mobile: 9043056079 Mail-id: anil@cair.drdo.in	External Member

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6	**Dr. Adi Maheswara Reddy** Manger Software Engineering Parexel International Pvt. Ltd Raheja Mind Space, Madhapur Hyderabad-500081	Phone:+91 9704679987 Mail-di:adimaheswara@yahoo.com	External Member
8	**Dr. N.Veeranjanyulu** Professor Department of Information Technology VFSTR University	Mobile:9347162038 Mail-id : veeru2006n@gmail.com	Internal Member
9	**Dr. B. Premamayudu** Professor Department of Information Technology, VFSTR University	Mobile:+91 9440006478 Mail-id : premamayudu@gmail.com	Internal Member
10	**Dr. P. Subbarao** Associate Professor Department of Information Technology, VFSTR University	Mobile:+918978883898 Mail-id : subbarao.peram@gmail.com	Internal Member
11	**Dr. K. Sujatha** Associate Professor Department of Information Technology, VFSTR University	Mobile:+91 9989728642 Mail-id : sujatha101012@gmail.com	Internal Member
12	**Dr. A. Vijaya Raj** Associate Professor Department of Information Technology, VFSTR University	Mobile:+91 8940114491 Mail-id : satturvijay@gmail.com	Internal Member

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The following points are discussed, and resolutions made during this meeting:

1. Proposed course structure for all 4 years of B.Tech. Programme in Information Technology is approved (Appendix I)

2. Choice based credit system is accepted in the Curriculum and 22% of syllabus revision was carried out

3. All the courses in the curriculum are designed to fall under either of the domains of employability or entrepreneurship or skill development (Appendix II)

4. In the revised regulation R21, the substantial changes are made in the content of all courses and hence the courses are considered as new courses (Appendix III)

5. Feedback from wide array of stakeholders is carefully collected, analyzed and their suggestions are considered while designing the Curriculum

6. Proposed and approved detailed syllabi from the 4 years of B.Tech. Programme in Information Technology with effect from the academic year 2021-22. The proposed structure and syllabus are applicable for 2021 admitted batch onwards.

7. To introduce fundamental professional core to create interest in computer architecture and design included core professional course digital logic design in the I year I semester.

8. To emphasize the coding/programming skills, more weightage (4 practical hours per week) given for the JAVA and python programming courses.

9. Emphasis is given to advanced core courses in the curriculum, such as Advanced data structure, Cyber Security, Advanced web technologies, ASP and .Net Technologies, Artificial neural networks, Natural language processing, Computer vision, and Robotics & Its applications.

Signatures of the members present:

1. Dr. K.V.Krishna Kishore
2. Dr. N.Veeranjanyulu
3. Dr. B. Premamayudu
4. Dr. P. Subbarao
5. Dr. K. Sujatha
6. Dr. Vijaya Raj

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Appendix I

B.Tech. Information Technology Programme Structure

I Year I Semester

S. No.	Course Title	L	T	P	Credits
1	Engineering Mathematics I(C)	3	1	-	4
2	Engineering Physics (A)	3	-	2	4
3	Basics of Electrical & Electronics Engineering	3	-	2	4
4	Engineering Graphics and Design	-	-	2	1
5	Programming for Problem Solving -I	3	-	4	5
6	Basics of Computer & Internet	1	-	2	2
7	Physical Fitness, Sports & Games-I	-	-	2	1
	Total	13	1	14	21

I Year II Semester

S. No.	Course Title	L	T	P	Credits
1	Engineering Mathematics II(C)	3	1	-	4
2	Discrete Mathematical Structures	3	-	-	3
3	Digital Logic Design	3	-	-	3
4	Programming for Problem Solving-II	3	-	4	5
5	English Proficiency and Communication Skills	-	-	2	1
6	Constitution of India	1	-	-	1
7	Workshop	-	-	2	1
8	Technical English Communication	2	-	2	3
9	Physical Fitness, Sports & Games-II	-	-	3	1
	Total	15	1	13	22

L: Lecture Hours/Week; **T**: Tutorial Hours/Week; **P**: Practical Hours/Week; **C**: Credits of the Course

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II Year I Semester

S. No.	Course Title	L	T	P	Credits
1	Probability and Statistics	3	1	-	4
2	Data Structures	3	-	2	4
3	Computer Organization and Architecture	3	-	-	3
4	Database Management Systems	3	-	2	4
5	OOPs through JAVA	3	-	4	5
6	Environmental Studies	1	-	-	1
7	Life Skills – I	-	-	2	-
8	Technical Seminar – I	-	-	2	1
9	Intra-Disciplinary Projects - I	-	-	2	1
10	Physical Fitness, Sports & Games - 3	-	-	2	1
	Total	16	1	16	24

II Year II Semester

S. No.	Course Title	L	T	P	Credits
1	Advanced Data Structures	3	-	2	4
2	Software Engineering	3	-	-	3
3	Operating Systems	3	-	-	3
4	Python Programming	3	-	4	5
5	Web Technologies	3	-	2	4
6	Principles of Management & Organizational Behaviour	3	-	-	3
7	Life Skills - II	-	-	2	1
8	Technical Seminar - II	-	-	2	1
9	Intra-Disciplinary Projects - II	-	-	2	1
	Total	18	0	14	25

L: Lecture Hours/Week; **T**: Tutorial Hours/Week; **P**: Practical Hours/Week; **C**: Credits of the Course

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III Year I Semester

S. No.	Course Title	L	T	P	Credits
1	Computer Networks	3	-	2	4
2	Artificial Intelligence	3	-	-	3
3	Cloud Computing	3	-	-	3
4	Design & Analysis of Algorithms	3	-	2	4
5	Departmental Elective-I	3	-	2	4
6	Open Elective-I	3	-	-	3
7	Soft Skills Lab	-	-	2	1
8	Employability Skills - I	-	-	2	-
9	Inter-Departmental Projects - I	-	-	4	2
10	Modular Course	-	-	-	1
	Total	18	0	14	25

III Year II Semester

S. No.	Course Title	L	T	P	Credits
1	Data Mining Techniques	3	-	2	4
2	Internet of Things	3	-	-	3
3	Departmental Elective-II	3	-	2	4
4	Open Elective-II	3	-	-	3
5	Human Values, Professional Ethics & Gender Equity	2	-	-	2
6	Competitive Coding	-	-	2	1
7	Professional communications Lab	-	-	2	1
8	Employability Skills - II	-	-	2	1
9	Inter-Departmental Projects - II	-	-	4	2
	Total	14	0	14	21

L: Lecture Hours/Week; T: Tutorial Hours/Week; P: Practical Hours/Week; C: Credits of the Course

CBCS Courses are highlighted in the above course structure

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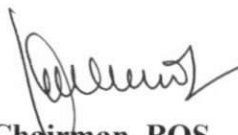(Deemed to be University)
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IV Year I Semester

S. No.	Course Title	L	T	P	Credits
1	Cyber Security	3	-	2	4
2	Bigdata Analytics	3	-	2	4
3	Departmental Elective – III	3	-	0	3
4	Departmental Elective – IV	3	-	0	3
5	Open Elective -III (Swayam/NPTEL)	3	-	0	3
6	Societal Centric and Industry Related Projects	-	-	6	3
	Total	15	-	10	20

IV Year II Semester

S. No.	Course Title	L	T	P	Credits
1	Internship / Project work	-	-	24	12
	Total	-	-	24	12

L: Lecture Hours/Week; **T**: Tutorial Hours/Week; **P**: Practical Hours/Week; **C**: Credits of the Course

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Department/Professional Electives:

S.No.	Course Title	L	T	P	Credits
1	R Programming	3	0	2	4
2	Mobile Application Development	3	0	2	4
3	Advanced Web Technologies	3	0	2	4
4	Natural Language Processing	3	0	2	4
5	Artificial Neural Networks	3	0	2	4
6	Formal Languages and Automata Theory	3	1	0	4
7	Compiler Design	3	1	0	4
8	Fundamentals of Image Processing	3	0	2	4
9	Robotics and Its Applications	3	1	0	4
10	Computer Vision	3	0	2	4
11	ASP and .Net Programming	3	0	2	4
12	Machine Learning	3	0	2	4
13	Block chain and Its Applications	3	0	2	4

L: Lecture Hours/Week; T: Tutorial Hours/Week; P: Practical Hours/Week; C: Credits of the Course

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Appendix II
List of courses that enable employability or entrepreneurship or skill development in the R21 B.Tech. Information Technology

Year and Sem	Course Title	Course Nature
I and I	Engineering Mathematics I(C)	Skill Development
I and I	Engineering Physics (A)	Skill Development
I and I	Basics of Electrical & Electronics Engineering	Skill Development
I and I	Engineering Graphics and Design	Skill Development
I and I	Programming for Problem Solving I	Employability
I and I	Basics of Computer & Internet	Skill Development
I and I	Physical Fitness, Sports & Games I	
I and II	Engineering Mathematics II(C)	Skill Development
I and II	Discrete Mathematical Structures	Skill Development
I and II	Digital Logic Design	Skill Development
I and II	Programming for Problem Solving II	Employability
I and II	English Proficiency and Communication Skills	Skill Development
I and II	Constitution of India	Skill Development
I and II	Workshop	Skill Development
I and II	Technical English Communication	Skill Development
II and I	Probability and Statistics	Skill Development
II and I	Data Structures	Employability
II and I	Computer Organization and Architecture	Skill Development
II and I	Database Management Systems	Employability
II and I	OOPs through JAVA	Employability
II and I	Environmental Studies	Skill Development
II and I	Life Skills I	Skill Development
II and I	Technical Seminar I	Skill Development
II and I	Intra Disciplinary Projects I	Employability
II and II	Advanced Data Structures	Employability
II and II	Software Engineering	Employability
II and II	Operating Systems	Skill Development
II and II	Python Programming	Employability
II and II	Web Technologies	Employability

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II and II	Principles of Management & Organizational Behaviour	Entrepreneurship
II and II	Life Skills II	Skill Development
II and II	Technical Seminar II	Employability
II and II	Intra Disciplinary Projects II	Employability
III and I	Computer Networks	Skill Development
III and I	Artificial Intelligence	Employability
III and I	Cloud Computing	Employability
III and I	Design & Analysis of Algorithms	Skill Development
III and I	Soft Skills Lab	Employability
III and I	Employability Skills I	Employability
III and I	Inter Departmental Projects I	Employability
III and I	Modular Course	Employability
III and II	Data Mining Techniques	Employability
III and II	Internet of Things	Employability
III and II	Human Values, Professional Ethics & Gender Equity	Skill Development
III and II	Competitive Coding	Employability
III and II	Professional communications Lab	Skill Development
III and II	Employability Skills II	Employability
III and II	Inter Departmental Projects II	Employability
IV and I	Cyber Security	Skill Development
IV and I	Bigdata Analytics	Employability
IV and I	Societal Centric and Industry Related Projects	Employability
IV and II	Internship / Project work	Employability
Professional Elective	R Programming	Employability
Professional Elective	Mobile Application Development	Employability
Professional Elective	Advanced Web Technologies	Employability
Professional Elective	Natural Language Processing	Employability
Professional Elective	Artificial Neural Networks	Employability

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Professional Elective	Formal Languages and Automata Theory	Skill Development
Professional Elective	Compiler Design	Skill Development
Professional Elective	Fundamentals of Image Processing	Employability
Professional Elective	Robotics and Its Applications	Employability
Professional Elective	Computer Vision	Employability
Professional Elective	ASP and .Net Programming	Employability
Professional Elective	Machine Learning	Employability
Professional Elective	Block chain and Its Applications	Employability

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Appendix III

List of new courses in the R21
B.Tech. – Information Technology Curriculum

S. No.	Year and Sem	Course Title
1	I and I	Basics of Computer & Internet
2	I and II	Discrete Mathematical Structures
3	II and II	Advanced Data Structures
4	II and II	Software Engineering
5	II and II	Python Programming
6	II and II	Web Technologies
7	III and II	Data Mining Techniques
8	III and II	Internet of Things
9	III and II	Competitive Coding
10	IV and I	Cyber Security
11	IV and I	Bigdata Analytics
12	Professional Elective	Advanced Web Technologies
13	Professional Elective	Natural Language Processing
14	Professional Elective	Artificial Neural Networks
15	Professional Elective	Formal Languages and Automata Theory
16	Professional Elective	Robotics and Its Applications
17	Professional Elective	Computer Vision
18	Professional Elective	ASP and .Net Programming
19	Professional Elective	Machine Learning

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