

Vadlamudi - 522 213, Guntur Dt. AP, India

Minutes of Meeting of Board of Studies (BOS)

Date: 09.04.2016

Board of Studies Meeting (BOS) of department of Information Technology of Vignan's Foundation for Science Technology and Research Deemed to be University is conducted on 09th April, 2016 at Registrar Office Conference Hall, Vignan's Foundation for Science Technology and Research Deemed to be University, Vadlamudi.

The following members attended the meeting

- 1. Dr. C. Raghavendra Rao, Professor, Central University, Hyderabad, Member
- 2. Dr. R.Nadarjan, Professor & Head, Department of Computer Science and Engineering, PSG College of Technology, Coimbatore
- Mr.V.Venkata Swamy, Sr. Validation Architect, Sandisk India Device Design Centre, Bangalore
- 4. Dr. N. Veeranjaneyulu, HOD, IT, VFSTR Deemed to be University, Bos Chairman
- 5. Mr.B.Premamayudu, Assoc. Prof. IT, University, Member
- 6. Dr.M.Nirupama Bhat, Asst. Prof, IT, University, Member
- 7. Mrs. K. Santhi Sri, Assoc. Prof. IT, VFSTR University, Member
- 8. Mr. P. Subbarao, Asst. Prof., IT, VFSTR University, Member
- 9. Mr. K. Praveen Kumar, Asst. Prof. IT, VFSTR University, Member

The following members expressed their inability to attend the meeting:

- Dr. S. Nickolas, Professor, Department of Computer Applications, NIT, Tiruchurapalli
- Mr. T. Bala Krishna, Director, Global Infrastructure Services, Computer Science Corporation, Hyderabad
- 3. Mrs. Ashika, Scientist 'D', Center for Artificial Intelligence and Robotices(CAIR), DRDO, CV Raman Nagar, Bangalore

Agenda of the BOS Meeting:

- To finalize R16 B.Tech. Information Technology programme Curriculum.
- 2. Any point with the permission of Chair.

Following are the points discussed and resolutions made during this meeting:

- 1. Propose and approve course structure for all 4 years of B.Tech. Programme in Information Technology (Appendix I)
- The Data Structure and Algorithms course is to be divided into two courses as data structures and advanced data structures



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- 3. The syllabus of foundations of Information Technology lab must cover all the concepts so that completion of this lab students must be able to assemble the system environmental setup and protecting their documents or databases.
- 4. Propose and approve detailed syllabus for the 4 year of B.Tech. Programme in Information Technology with effect from the academic year 2016-17. The proposed structure and syllabus are applicable for 2016 admitted batch onwards.
- 5. Stakeholder's feedback is collected, analyzed and given utmost priority while designing the curriculum and their suggestions are implemented
- 6. The curriculum follows choice-based credit system (Appendix IV)
- 7. The curriculum is encompassing the courses that enable employability or entrepreneurship or skill development (Appendix II)
- 8. In the B.Tech. Information Technology revised regulation R16, the substantial changes are made in the content of all courses and hence the courses are considered as new courses (Appendix III) and 56% of syllabus revision was carried out.

Signature of the members present

BOS Members:

Venkata Swamy

5.Mr.B.Premamyudy

7. Dr.M.Nirupama Bhat

9.Mr.K.Praveen Kumar

C. Raghaudlufar Dr.C.RaghavendraRao

K. Santhi Shi

8. Mr.P.Subba Rao



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Appendix I B.Tech. Information Technology Programme Structure

I-I Semester

S.No.	Course Name	L	T	P	C
1	Engineering Mathematics I	3	1	2	5
2	Engineering Chemistry	3	-	-	3
3	Basic Engineering Products	3	-	2	4
4	Basics of Electrical and Electronics Engineering	3	-	2	4
5	English Proficiency and Communication Skills	-	-	2	1
6	Basics of Computers and Internet	3	-	2	4
7	Workshop Practice	-	-	3	2
8	Engineering Chemistry Laboratory	-	-	3	2
	Total	15	1	16	25

I-II Semester

S.No.	Course Name	L	T	P	C
1	Engineering Mathematics-II	3	1	2	5
2	Engineering Physics	3	-	-	3
3	Computer Programming	3	1	2	5
4	Electronic Devices and Circuits	3	-	2	4
5	Environmental Science and Technology	2	-	-	2
6	Engineering Graphics	1	-	3	3
7	Technical English Communications	3	-	2	4
8	Engineering Physics Laboratory	-	-	3	2
	Total	18	2	14	28

II-I Semester

S.No.	Course Name	L	T	P	C
1	Probability and Statistics	3	1	-	4
2	Management Science	3	-	-	3
3	Object Oriented Programming	3	-	2	4
4	Data Structures	3	-	2	4
5	Digital Logic Design	3	1	-	4
6	Web Technologies	3	1	2	5
7	Soft Skills Laboratory	-	-	2	1
8	Employability and Life Skills Elective	-	-	-	1-3
	Total				26-28



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B.Tech. Information Technology Programme Structure

II-II Semester

S.No.	Course Name	L	T	P	C
1	Computer Organization and Architecture	3	1	-	4
2	Advanced data structures	3	-	2	4
3	Database Management Systems	3	1	2	5
4	Discrete Mathematical Structures	-	-	2	1
5	Professional Communications Laboratory	-	-	2	1
6	Department Elective	-	-	-	3-4
7	Department / Open Elective	-	-	-	3-4
8	Employability and Life Skills Elective	-	-	-	1-3
	Total	12	2	6	24-28

III-I Semester

S.No.	Course Name	L	T	P	C
1	Software Engineering	3	-	2	4
2	Design and Analysis of Algorithms	3	-	2	4
3	Formal Languages and Automata Theory	3	1	-	4
4	Operating Systems	3	-	2	4
5	Department Elective	-	-	-	3-4
6	Department/Open Elective	-	-	-	3-4
7	Employability and Life Skills Elective	-	-	-	1-3
	Total	12	1	6	23-27

III-II Semester

S.No.	Course Name	L	T	P	C
1	Professional Ethics	2	-	-	4
2	Data Mining Techniques	3	-	2	4
3	Computer Networks	3	-	2	4
4	Human Computer Interaction	3	-	-	3
5	Compiler Design	3	-	-	3
6	Department Elective	-	-	-	3-4
7	Department/ Open Elective	-	-	-	3-4
8	Employability and Life Skills Elective*	-	-	-	1-3
	Total	14	-	4	23-27



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B.Tech. Information Technology Programme Structure

IV-I Semester

S.No.	Course Name	L	T	P	C
1	Cloud Computing	3	-	2	4
2	Information Security	3	-	2	4
3	Bigdata Analytics	3	-	2	4
4	Mobile Application Development	3	-	2	4
5	Department Elective	-	-	-	3-4
6	Department/ Open Elective	-	-		3-4
7	Employability and Life Skills Elective*	-	-	-	1-3
	Total	12	-	6	23-27

^{*} Includes courses and programmes like Foreign Languages, Summer Internship, NCC, NSS, Yoga, Music, Dance and Value-Added Courses

IV-II Semester

S.No.	Course Name	L	T	P	C
1	Project Work/Internship	-	-	-	15
	Total	-	-	-	15

L: Lecture Hours/week; T: Tutorial Hours/week; P: Practical Hours/week;

C: Credits of the Course;

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Department Elective Streams and Courses

STREAM-I: WED SYSTEMS AND TECHNOLOGIES

S.No.	Course Name	L	T	P	C
1	Scripting Languages	3	-	2	4
2	Open Systems for Web Technologies	3	-	2	4
3	Middleware Technologies	3	-	2	4
4	Enterprise Computing	3	-	2	4

STREAM-II: EMBEDDED SYSTEMS

S.No.	Course Name	L	T	P	C
1	Micro Processors and Interfacing	3	-	2	4
2	Embedded Systems	3	-	2	4
3	Wireless Sensor Networks	3	-	2	4
4	Internet of Things	3	-	2	4

STREAM-III: MACHINE LEARNING

S.No.	Course Name	L	T	P	C
1	Artificial Intelligence	3	-	2	4
2	Optimization Techniques	3	-	2	4
3	Soft Computing	3	-	2	4
4	Agent Technologies	3	-	2	4

STREAM-IV: COMPUTER VISION

S.No.	Course Name	L	T	P	C
1	Computer Graphics	3	-	2	4
2	Fundamentals of Image Processing	3	-	2	4
3	Pattern Recognition	3	-	2	4
4	Virtual Reality Systems	3		2	4

Open Electives Streams

Stream	Mobile Application Development			
Course Name	L	T	P	C
Unix/Linux and Shell Programming	3	1	-	4
Java Programming	3	1	-	4
Mobile Application Development Using Android	3	1	-	4
Advanced Mobile Application Development Using Android	3	1	-	4

Stream	Data Science			
Course Name	L	T	P	C
Unix/Linux and Shell Programming	3	1	-	4
Python Programming	3	1	-	4
Statistics Using Python	3	1	-	4
Data Science Using Python	3	1	-	4





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Appendix II

List of courses that enable employability or entrepreneurship or skill development in the R-16 B.Tech. – Information Technology

S.No.	Year	Course Name	Course Nature
1	I	Engineering Mathematics I	Skill Development
2	I	Engineering Chemistry	Skill Development
3	I	Basic Engineering Products	Skill Development
4	I	Basics of Electrical and Electronics Engineering	Skill Development
5	I	English Proficiency and Communication Skills	Skill Development
6	I	Basics of Computers and Internet	Skill Development
7	I	Workshop Practice	Skill Development
8	I	Engineering Chemistry Laboratory	Skill Development
9	I	Engineering Mathematics-II	Skill Development
10	I	Engineering Physics	Skill Development
11	I	Computer Programming	Skill Development
12	I	Electronic Devices and Circuits	Skill Development
13	I	Environmental Science and Technology	Skill Development
14	I	Engineering Graphics	Skill Development
15	I	Technical English Communications	Skill Development
16	I	Engineering Physics Laboratory	Skill Development
17	II	Probability and Statistics	Skill Development
18	II	Management Science	Skill Development
19	II	Object Oriented Programming	Employability
20	П	Data Structures	Skill Development
21	II	Digital Logic Design	Skill Development
22	II	Web Technologies	Employability
23	П	Soft Skills Laboratory	Skill Development
24	II	Employability and Life Skills Elective	Employability
25	II	Computer Organization and Architecture	Skill Development
26	II	Advanced data structures	Skill Development
27	П	Database Management Systems	Employability
28	II	Discrete Mathematical Structures	Skill Development
29	II	Professional Communications Laboratory	Skill Development
30	II	Employability and Life Skills Elective	Employability
31	III	Software Engineering	Skill Development
32	III	Design and Analysis of Algorithms	Skill Development
33	III	Formal Languages and Automata Theory	Skill Development
34	III	Operating Systems	Skill Development
35	III	Employability and Life Skills Elective	Employability
36	III	Professional Ethics	Skill Development
37	III	Data Mining Techniques	Employability
38	III	Computer Networks	Skill Development
39	III	Human Computer Interaction	Skill Development



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40	III	Compiler Design	Skill Development
41	III	Employability and Life Skills Elective	Employability
42	IV	Cloud Computing	Employability
43	IV	Information Security	Employability
44	IV	Bigdata Analytics	Employability
45	IV	Mobile Application Development	Employability
46	IV	Employability and Life Skills Elective	Employability
47	IV	Project Work/Internship	Employability
48	Department Elective	Scripting Languages	Employability
49	Department Elective	Open Systems for Web Technologies	Employability
50	Department Elective	Middleware Technologies	Employability
51	Department Elective	Enterprise Computing	Employability
52	Department Elective	Micro Processors and Interfacing	Employability
53	Department Elective	Embedded Systems	Employability
54	Department Elective	Wireless Sensor Networks	Employability
55	Department Elective	Internet of Things	Employability
56	Department Elective	Artificial Intelligence	Employability
57	Department Elective	Optimization Techniques	Skill Development
58	Department Elective	Soft Computing	Employability
59	Department Elective	Agent Technologies	Employability
60	Department Elective	Computer Graphics	Employability
61	Department Elective	Fundamentals of Image Processing	Employability
62	Department Elective	Pattern Recognition	Employability
63	Department Elective	Virtual Reality Systems	Employability
64	Open Elective	Unix/Linux and Shell Programming	Employability
65	Open Elective	Java Programming	Employability
66	Open Elective	Mobile Application Development Using Android	Employability
67	Open	Advanced Mobile Application	Employability



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	Elective	Development Using Android	_
68	Open Elective	Unix/Linux and Shell Programming	Employability
59	Open Elective	Python Programming	Employability
70	Open Elective	Statistics Using Python	Employability
71	Open Elective	Data Science Using Python	Employability

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Appendix III List of new courses in the R-16 B.Tech. – Information Technology Curriculum

S.No.	Semester (Year)	Course Name	
1	Semester I (First Year)	Engineering Mathematics I	
2	Semester I (First Year)	Engineering Chemistry	
3	Semester I (First Year)	Basic Engineering Products	
4	Semester I (First Year)	Basics of Electrical and Electronics Engineering	
5	Semester I (First Year)	English Proficiency and Communication Skills	
6	Semester I (First Year)	Basics of Computers and Internet	
7	Semester I (First Year)	Workshop Practice	
8	Semester I (First Year)	Engineering Chemistry Laboratory	
9	Semester II (First Year)	Engineering Mathematics-II	
10	Semester II (First Year)	Engineering Physics	
11	Semester II (First Year)	Computer Programming	
12	Semester II (First Year)	Electronic Devices and Circuits	
13	Semester II (First Year)	Environmental Science and Technology	
14	Semester II (First Year)	Engineering Graphics	
15	Semester II (First Year)	Technical English Communications	
16	Semester II (First Year)	Engineering Physics Laboratory	
17	Semester I (Second Year)	Probability and Statistics	
18	Semester I (Second Year)	Management Science	
19	Semester I (Second Year)	Object Oriented Programming	
20	Semester I (Second Year)	Data Structures	
21	Semester I (Second Year)	Digital Logic Design	
22	Semester I (Second Year)	Web Technologies	
23	Semester I (Second Year)	Soft Skills Laboratory	
24	Semester I (Second Year)	Employability and Life Skills Elective	
25	Semester II (Second Year)	Computer Organization and Architecture	
26	Semester II (Second Year)	Advanced data structures	
27	Semester II (Second Year)	Database Management Systems	
28	Semester II (Second Year)	Discrete Mathematical Laboratory	
29	Semester II (Second Year)	Professional Communications Laboratory	
30	Semester II (Second Year)	Employability and Life Skills Elective	
31	Semester I (Third Year)	Software Engineering	
32	Semester I (Third Year)	Design and Analysis of Algorithms	
33	Semester I (Third Year)	Formal Languages and Automata Theory	
34	Semester I (Third Year)	Operating Systems	
35	Semester I (Third Year)	Employability and Life Skills Elective	
36	Semester II (Third Year)	Professional Ethics	
37	Semester II (Third Year)	Data Mining Techniques	
38	Semester II (Third Year)	Computer Networks	
39	Semester II (Third Year)	Human Computer Interaction	
40	Semester II (Third Year)	Compiler Design	



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41	Semester II (Third Year)	Employability and Life Skills Elective		
42	Semester I (Fourth Year)	Cloud Computing		
43	Semester I (Fourth Year)	Information Security		
44	Semester I (Fourth Year)	Bigdata Analytics		
45	Semester I (Fourth Year)	Mobile Application Development		
46	Semester I (Fourth Year)	Employability and Life Skills Elective		
47	Semester II (Fourth Year)	Project Work/Internship		
48	Department Elective	Scripting Languages		
49	Department Elective	Open Systems for Web Technologies		
50	Department Elective	Middleware Technologies		
51	Department Elective	Enterprise Computing		
52	Department Elective	Micro Processors and Interfacing		
53	Department Elective	Embedded Systems		
54	Department Elective	Wireless Sensor Networks		
55	Department Elective	Internet of Things		
56	Department Elective	Artificial Intelligence		
57	Department Elective	Optimization Techniques		
58	Department Elective	Soft Computing		
59	Department Elective	Agent Technologies		
60	Department Elective	Computer Graphics		
61	Department Elective	Fundamentals of Image Processing		
62	Department Elective	Pattern Recognition		
63	Department Elective	Virtual Reality Systems		
64	Open Elective	Unix/Linux and Shell Programming		
65	Open Elective	Java Programming		
66	Open Elective	Mobile Application Development Using Android		
67	Open Elective	Advanced Mobile Application Developmen Using Android		
68	Open Elective	Unix/Linux and Shell Programming		
69	Open Elective	Python Programming		
70	Open Elective	Statistics Using Python		
71	Open Elective	Data Science Using Python		

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Appendix IV CBCS (Choice Based Credit System)

S.No.	Semester (Year)	Course Name	Credits
1	Semester I (Second Year)	Employability and Life Skills Elective	5
2	Semester II (Second Year)	Employability and Life Skills Elective	
3	Semester I (Third Year)	Employability and Life Skills Elective	
4	Semester II (Third Year)	Employability and Life Skills Elective	
5	Semester II (Second Year)	Department Elective -I	4
6	Semester I (Third Year)	Department Elective -II	4
7	Semester II (Third Year)	Department Elective -III	4
8	Semester I (Fourth Year)	Department Elective -IV	4
9	Semester II (Second Year)	Open Elective -I	4
10	Semester I (Third Year)	Open Elective -II	4
11	Semester II (Third Year)	Open Elective -III	4
12	Semester I (Fourth Year)	Open Elective -IV	4
13	Semester II (Fourth Year)	Internship / Project Work	15
14	Modular Course		1
Total			53

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