

Minutes of Meeting of Board of Studies (BOS)

Date: 20.05.2013

Board of Studies Meeting (BOS) of department of Information Technology of Vignan's Foundation for Science Technology and Research University is conducted on 20th May, 2013 at board Room, H-Block, Vignan's Foundation for Science Technology and Research University, Vadlamudi.

The following members attended the meeting

1. Dr. C. Raghavendra Rao, Professor, Central University, Hyderabad, Member
2. Dr. D V L N Somajajulu, Professor & HOD, CSE, NIT, Warangal, Member
3. Dr. B. B. Prahlada Rao, Group Coordinator, C-DAC, Bangalore, Member
4. Mr. CH. Sri Nagesh, Campus Connect Coordinator, Infosys, Hyderabad, Member
5. Mr. A. Raghunath, HOD, IT, VFSTR, Member
6. Mr. B. Premamayudu, Assoc. Prof. IT, VFSTR, Member
7. Mr. K. Praveen Kumar, Asst. Prof. IT, VFSTR, Member

Agenda of the BOS Meeting:

1. To finalize R13 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)
2. Propose and approve detailed syllabus for the 4 year of B.Tech. Programme in Information Technology with effect from the academic year 2013-14. The proposed structure and syllabus are applicable for 2013 admitted batch onwards.
3. Stakeholder's feedback is collected, analyzed and given utmost priority while designing the curriculum and their suggestions are implemented
4. The curriculum follows choice-based credit system
5. The board felt that awareness and exposure to domain specific open-source tools in java to the students will aid in skill enhancement. So, the labs should be integrated good account of experiments to make the students to aware how to use these open-source tools in java. Skill set of the students should utilize campus wide communication/computational facilities effectively and orientation for the same should be integrated in the lab



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6. Major restructuring has taken place in the curriculum which is industrial ready courses (like Data Mining, Big data, Computer Vision, Open Systems for Web Technologies) and one full semester internship project in IT industry either in 4th year I semester or 4th year II semester
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 R13, the substantial changes are made in the content of all courses and hence the courses are considered as new courses (Appendix III)

Signature of the members present

1. Dr. C. Raghavendra Rao 
2. Dr. D V L N Somajajulu 
3. Dr. B. B. Prahlada Rao 
4. Mr. CH. Sri Nagesh 
5. Mr. A. Raghu Nath 
6. Mr. B. Premamayudu 
7. Mr. K. Praveen Kumar 

**Appendix I
B.Tech. Information Technology Programme Structure**

I Semester

S.No.	Course Name	L	T	P	To	C
1	Engineering Mathematics I	4	-	-	4	4
2	Engineering Physics	4	-	-	4	4
3	Engineering Mechanics	4	-	-	4	4
4	Technical English Communication	3	2	-	5	5
5	Problem Solving and Computer Programming	5	-	-	5	5
6	Network Security	2	-	-	2	-
7	Engineering Physics Lab	-	-	3	3	2
8	Computer Programming Lab	-	-	3	3	2
9	Workshop Practice	-	-	3	3	2
	Total	22	2	9	33	28

II Semester

S.No.	Course Name	L	T	P	To	C
1	Engineering Mathematics-II	4	-	-	4	4
2	Environmental Studies	3	-	-	3	3
3	Fundamentals of Electrical Engineering	4	-	-	4	4
4	Engineering Chemistry	4	-	-	4	4
5	Data Structures	4	-	-	4	4
6	Professional Ethics, Values and Human Rights	2	-	-	2	-
7	Data Structures Lab	-	-	3	3	2
8	Engineering Graphics	1	-	3	4	3
9	Fundamentals of Electrical Engineering Lab	-	-	3	3	2
	Total	22	0	9	31	26

III Semester

S.No.	Course Name	L	T	P	To	C
1	Discrete Mathematical Structures	4	-	-	4	4
2	Digital Logic Design	4	-	-	4	4
3	Advanced Data Structures	4	-	-	4	4
4	Object Oriented Programming through JAVA	4	-	-	4	4
5	Software Engineering	4	-	-	4	4
6	Minor-I	4	-	-	4	4
7	Seminar	-	-	1	1	1
8	Advanced Data Structures Lab	-	-	3	3	2
9	Object Oriented Programming Through JAVA Lab	-	-	3	3	2
10	Soft Skills Lab	-	-	3	3	2
	Total	24	-	10	34	31



B.Tech. Information Technology Programme Structure

IV Semester

S.No.	Course Name	L	T	P	To	C
1	Probability & Statistics	4	-	-	4	4
2	Computer Organization	4	-	-	4	4
3	Database Systems	4	-	-	4	4
4	Formal Languages and Automata Theory	4	-	-	4	4
5	Design and Analysis of Algorithms	4	-	-	4	4
6	Minor-II	4	-	-	4	4
7	Seminar	-	-	1	1	1
8	Database Systems Lab	-	-	3	3	2
9	Design and Analysis of Algorithms Lab	-	-	3	3	2
10	Professional Communication Lab	-	-	3	3	2
	Total	24	-	10	34	31

V Semester

S.No.	Course Name	L	T	P	To	C
1	Web Technologies	4	-	-	4	4
2	Computer Networks	4	-	-	4	4
3	Operating Systems	4	-	-	4	4
4	Compiler Design	4	-	-	4	4
5	Department Elective – I	4	-	-	4	4
6	Minor-III	4	-	-	4	4
7	Seminar	-	-	1	1	1
8	Web Technologies Lab	-	-	3	3	2
9	Computer Networks Lab	-	-	3	3	2
10	Operating Systems Lab	-	-	3	3	2
	Total	24	-	10	34	31

VI Semester

S.No.	Course Name	L	T	P	To	C
1	Object Oriented Analysis and Design	4	-	-	4	4
2	Middleware Technologies	4	-	-	4	4
3	Microprocessors and Microcontrollers	4	-	-	4	4
4	Software Testing Methodologies	4	-	-	4	4
5	Department Elective-II	4	-	-	4	4
6	Minor-IV	4	-	-	4	4
7	Seminar	-	-	1	1	1
8	Object Oriented Analysis and Design Lab	-	-	3	3	2
9	Middleware Technologies Lab	-	-	3	3	2
10	Mini Project	-	-	3	3	2
	Total	24	-	10	34	31



B.Tech. Information Technology Programme Structure

VII Semester

S.No.	Course Name	L	T	P	To	C
1	Data Warehousing and Data Mining	4	-	-	4	4
2	Cryptography and Network Security	4	-	-	4	4
3	Big Data Analytics	4	-	-	4	4
4	Department Elective-III	4	-	-	4	4
5	Department Elective-IV	4	-	-	4	4
6	Managerial Economics	4	-	-	4	4
7	Data Warehousing and Data Mining Lab	-	-	3	3	2
8	Cryptography and Network Security Lab	-	-	3	3	2
9	Free Open Source Software (FOSS) Lab	-	-	3	3	2
Total		24	0	9	33	30

VIII Semester

S.No.	Course Name	L	T	P	To	C
1	Minor-V	4	-	-	4	4
2	Department Elective-V	4	-	-	4	4
3	Department Elective-VI	4	-	-	4	4
4	Project Work	-	-	10	10	10
Total		12	0	10	22	22

DEPARTMENT ELECTIVES

S.No.	Course Name
Elective I	
1	Digital Image Processing
2	Artificial Intelligence
3	Principles of Programming Languages
4	Advanced Computer Architecture
Elective II	
5	Soft Computing
6	Cloud Computing
7	Mobile Application Development
8	Script Programming
Elective III	
9	Software Project Management
10	Human Computer Interaction
11	Multimedia Systems



12	Distributed Computing
Elective IV	
13	Simulation and Modeling
14	Open Systems for Web Technologies
15	Embedded Systems
16	Robotics
Elective V	
17	Network Programming
18	Bio Informatics
19	Design Patterns
20	J2EE
Elective VI	
21	Enterprise Resource Planning
22	Mobile Commerce
23	Ethical Practices in IT
24	Business Intelligence

MINOR SPECIALIZATION (INFORMATION TECHNOLOGY)

S.No.	Course Name
1	Object Oriented Programming through Java
2	Internet and Web Technologies
3	Operating Systems
4	Unix and Shell Programming
5	Data Base Systems
6	Multimedia Systems
7	Software Engineering
8	Data warehousing & datamining
9	Software Testing Methodologies
10	Object Oriented Analysis & Design

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Appendix II

List of courses that enable employability or entrepreneurship or skill development in the R-13 B.Tech. – Information Technology

S.No.	Year	Course Name	Course Nature
1	I	Engineering Mathematics I	Skill Development
2	I	Engineering Physics	Skill Development
3	I	Engineering Mechanics	Skill Development
4	I	Technical English Communication	Skill Development
5	I	Problem Solving and Computer Programming	Skill Development
6	I	Network Security	Skill Development
7	I	Engineering Physics Lab	
8	I	Computer Programming Lab	Skill Development
9	I	Workshop Practice	Skill Development
10	I	Engineering Mathematics-II	Skill Development
11	I	Environmental Studies	Skill Development
12	I	Fundamentals of Electrical Engineering	Skill Development
13	I	Engineering Chemistry	Skill Development
14	I	Data Structures	Skill Development
15	I	Professional Ethics, Values and Human Rights	Skill Development
16	I	Data Structures Lab	Skill Development
17	I	Engineering Graphics	Skill Development
18	I	Fundamentals of Electrical Engineering Lab	Skill Development
19	II	Discrete Mathematical Structures	Employability
20	II	Digital Logic Design	Skill Development
21	II	Advanced Data Structures	Employability
22	II	Object Oriented Programming through JAVA	Employability
23	II	Software Engineering	Skill Development
24	II	Minor-I	Skill Development
25	II	Seminar	Employability
26	II	Advanced Data Structures Lab	Skill Development
27	II	Object Oriented Programming Through JAVA Lab	Employability
28	II	Soft Skills Lab	Skill Development
29	II	Probability & Statistics	Skill Development
30	II	Computer Organization	Skill Development
31	II	Database Systems	Employability
32	II	Formal Languages and Automata Theory	Employability
33	II	Design and Analysis of Algorithms	Employability
34	II	Minor-II	Skill Development
35	II	Seminar	Employability



36	II	Database Systems Lab	Employability
37	II	Design and Analysis of Algorithms Lab	Skill Development
38	II	Professional Communication Lab	Skill Development
39	III	Web Technologies	Employability
40	III	Computer Networks	Skill Development
41	III	Operating Systems	Skill Development
42	III	Compiler Design	Employability
43	III	Minor-III	Skill Development
44	III	Seminar	Skill Development
45	III	Web Technologies Lab	Employability
46	III	Computer Networks Lab	Skill Development
47	III	Operating Systems Lab	Skill Development
48	III	Object Oriented Analysis and Design	Employability
49	III	Middleware Technologies	Employability
50	III	Microprocessors and Microcontrollers	Skill Development
51	III	Software Testing Methodologies	Skill Development
52	III	Minor-IV	Skill Development
53	III	Seminar	Employability
54	III	Object Oriented Analysis and Design Lab	Employability
55	III	Middleware Technologies Lab	Employability
56	III	Mini Project	Employability
57	IV	Data Warehousing and Data Mining	Employability
58	IV	Cryptography and Network Security	Skill Development
59	IV	Big Data Analytics	Employability
60	IV	Managerial Economics	Skill Development
61	IV	Data Warehousing and Data Mining Lab	Employability
62	IV	Cryptography and Network Security Lab	Skill Development
63	IV	Free Open Source Software (FOSS) Lab	Employability
64	IV	Minor-V	Employability
65	IV	Project Work	Skill Development
66	Department Elective	Digital Image Processing	Employability
67	Department Elective	Artificial Intelligence	Employability
68	Department Elective	Principles of Programming Languages	Employability
69	Department Elective	Advanced Computer Architecture	Employability
70	Department Elective	Soft Computing	Employability
71	Department Elective	Cloud Computing	Employability
72	Department Elective	Mobile Application Development	Employability

73	Department Elective	Script Programming	Employability
74	Department Elective	Software Project Management	Skill Development
75	Department Elective	Human Computer Interaction	Skill Development
76	Department Elective	Multimedia Systems	Skill Development
77	Department Elective	Distributed Computing	Skill Development
78	Department Elective	Simulation and Modeling	Skill Development
79	Department Elective	Open Systems for Web Technologies	Employability
80	Department Elective	Embedded Systems	Skill Development
81	Department Elective	Robotics	Employability
82	Department Elective	Network Programming	Employability
83	Department Elective	Bio Informatics	Skill Development
84	Department Elective	Design Patterns	Skill Development
85	Department Elective	J2EE	Employability
86	Department Elective	Enterprise Resource Planning	Employability
87	Department Elective	Mobile Commerce	Employability
88	Department Elective	Ethical Practices in IT	Skill Development
89	Department Elective	Business Intelligence	Skill Development


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Appendix III

List of new courses in the R-13

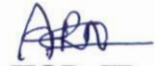
B.Tech. – Information Technology Curriculum

S.No.	Semester (Year)	Course Name
1	Semester I (First Year)	Engineering Mathematics I
2	Semester I (First Year)	Engineering Physics
3	Semester I (First Year)	Engineering Mechanics
4	Semester I (First Year)	Technical English Communication
5	Semester I (First Year)	Problem Solving and Computer Programming
6	Semester I (First Year)	Network Security
7	Semester I (First Year)	Engineering Physics Lab
8	Semester I (First Year)	Computer Programming Lab
9	Semester I (First Year)	Workshop Practice
10	Semester II (First Year)	Engineering Mathematics-II
11	Semester II (First Year)	Environmental Studies
12	Semester II (First Year)	Fundamentals of Electrical Engineering
13	Semester II (First Year)	Engineering Chemistry
14	Semester II (First Year)	Data Structures
15	Semester II (First Year)	Professional Ethics, Values and Human Rights
16	Semester II (First Year)	Data Structures Lab
17	Semester II (First Year)	Engineering Graphics
18	Semester II (First Year)	Fundamentals of Electrical Engineering Lab
19	Semester I (Second Year)	Discrete Mathematical Structures
20	Semester I (Second Year)	Digital Logic Design
21	Semester I (Second Year)	Advanced Data Structures
22	Semester I (Second Year)	Object Oriented Programming through JAVA
23	Semester I (Second Year)	Software Engineering
24	Semester I (Second Year)	Minor-I
25	Semester I (Second Year)	Seminar
26	Semester I (Second Year)	Advanced Data Structures Lab
27	Semester I (Second Year)	Object Oriented Programming Through JAVA Lab
28	Semester I (Second Year)	Soft Skills Lab
29	Semester II (Second Year)	Probability & Statistics
30	Semester II (Second Year)	Computer Organization
31	Semester II (Second Year)	Database Systems
32	Semester II (Second Year)	Formal Languages and Automata Theory
33	Semester II (Second Year)	Design and Analysis of Algorithms
34	Semester II (Second Year)	Minor-II
35	Semester II (Second Year)	Seminar
36	Semester II (Second Year)	Database Systems Lab
37	Semester II (Second Year)	Design and Analysis of Algorithms Lab
38	Semester II (Second Year)	Professional Communication Lab
39	Semester I (Third Year)	Web Technologies
40	Semester I (Third Year)	Computer Networks

41	Semester I (Third Year)	Operating Systems
42	Semester I (Third Year)	Compiler Design
43	Semester I (Third Year)	Minor-III
44	Semester I (Third Year)	Seminar
45	Semester I (Third Year)	Web Technologies Lab
46	Semester I (Third Year)	Computer Networks Lab
47	Semester I (Third Year)	Operating Systems Lab
48	Semester II (Third Year)	Object Oriented Analysis and Design
49	Semester II (Third Year)	Middleware Technologies
50	Semester II (Third Year)	Microprocessors and Microcontrollers
51	Semester II (Third Year)	Software Testing Methodologies
52	Semester II (Third Year)	Minor-IV
53	Semester II (Third Year)	Seminar
54	Semester II (Third Year)	Object Oriented Analysis and Design Lab
55	Semester II (Third Year)	Middleware Technologies Lab
56	Semester II (Third Year)	Mini Project
57	Semester I (Fourth Year)	Data Warehousing and Data Mining
58	Semester I (Fourth Year)	Cryptography and Network Security
59	Semester I (Fourth Year)	Big Data Analytics
60	Semester I (Fourth Year)	Managerial Economics
61	Semester I (Fourth Year)	Data Warehousing and Data Mining Lab
62	Semester I (Fourth Year)	Cryptography and Network Security Lab
63	Semester I (Fourth Year)	Free Open Source Software (FOSS) Lab
64	Semester II (Fourth Year)	Minor-V
65	Semester II (Fourth Year)	Project Work
66	Department Elective	Digital Image Processing
67	Department Elective	Artificial Intelligence
68	Department Elective	Principles of Programming Languages
69	Department Elective	Advanced Computer Architecture
70	Department Elective	Soft Computing
71	Department Elective	Cloud Computing
72	Department Elective	Mobile Application Development
73	Department Elective	Script Programming
74	Department Elective	Software Project Management
75	Department Elective	Human Computer Interaction
76	Department Elective	Multimedia Systems
77	Department Elective	Distributed Computing
78	Department Elective	Simulation and Modeling
79	Department Elective	Open Systems for Web Technologies
80	Department Elective	Embedded Systems
81	Department Elective	Robotics
82	Department Elective	Network Programming
83	Department Elective	Bio Informatics



84	Department Elective	Design Patterns
85	Department Elective	J2EE
86	Department Elective	Enterprise Resource Planning
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88	Department Elective	Ethical Practices in IT
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