

Department of Information Technology

[Minimum Credits to be earned: 174 (for regular students)/132(for lateral entry students)]

First Semester							
No	Course Code	Course	POs& PSOs	Periods			
				L	T	P	C
1	16HSX01	English Communication Skills I	10	3	1	-	3
2	16MAX01	Engineering Mathematics I	1,2	3	1	-	3
3	16PYX01	Engineering Physics	1,2	3	1	-	3
4	16MEX01	Engineering Mechanics	1,2,3	3	1	-	3
5	16CSX01	Problem Solving using C	1,2,3	3	1	-	3
6	16PYX02	Engineering Physics Lab	4	-	-	3	2
7	16CSX02	Problem solving using C Lab	2,3,4	-	-	3	2
8	16MEX02	Engineering Drawing	4,9,10	-	-	3	2
Total				15	5	9	21
Second Semester							
1	16HSX03	English Communication Skills II	10	3	1	-	3
2	16MAX02	Engineering Mathematics II	1,2	3	1	-	3
3	16CYX01	Engineering Chemistry	1,2	3	1	-	3
4	16EEX01	Basic Electrical Engineering	1,3	3	1	-	3
5	16CHX01	Environmental Studies	1,3,6,7	3	1	-	3
6	16HSX02	English Communication Skills Lab	10	-	-	3	2
7	16CYX02	Engineering Chemistry Lab	4	-	-	3	2
8	16MEX03	Engineering Workshop	1,2,10,12	-	-	3	2
Total				15	5	9	21
Third Semester							
No	Course Code	Course	POs& PSOs	Periods			
				L	T	P	C
1	16EC021	Data Communication systems	2, 3	3	1	-	3
2	16CS304	Database Management Systems	1,2, 3, PSO1	3	1	-	3
3	16CS305	Digital Logic Design	1, 2, 3,4,9	3	-	2	4
4	16CS306	Discrete Structures & Graph Theory	1, 2, 3	3	1	-	3
5	16IT305	Data Structures	1, 2, 3,PSO1	3	1	-	3
6	16IT306	Object Oriented Programming through Java	1,2, 3, 5, PSO2	3	1	-	3
7	16CS309	Database Management Systems Lab	2,3,4,5	-	-	3	2
8	16IT308	Data Structures Lab	2,3,4	-	-	3	2
9	16IT309	Java Lab	2,3,4,5	-	-	3	2
10	16HSX05	CC&EC Activities I		-	-	3	-
11	16ESX01	Employability Skills I		-	2	-	-
Total				18	7	14	25
Fourth Semester							
1	16MA405	Probability and Statistics	1,2	3	1	-	3
2	16CS404	Software Engineering	1,2, 3, 4,5	3	-	2	4
3	16CS406	Web Technologies	1,3, 5,6,PSO2	3	1	-	3
4	16IT404	Computer Networks	1,2,PSO1	3	1	-	3
5	16IT405	Computer organization	1,2	3	1	-	3
6	16IT406	Operating Systems	1,2,3	3	1	-	3
7	16CS408	Linux Programming Lab.	1,4, PSO2	-	-	3	2
8	16CS409	Web Technologies Lab	3,4,5, PSO2	-	-	3	2
9	16IT409	Computer Network Lab	4, 5, PSO1	-	-	3	2
10	16HSX05	CC & EC Activities I		-	-	3	1
11	16ESX02	Employability Skills II		-	2	-	1
Total				18	7	14	27

Fifth Semester							
No	Course Code	Course	POs& PSOs	Periods			
				L	T	P	C
1	16CS505	Design and Analysis of Algorithms	2,3	3	1	-	3
2	16CS604	Mobile Computing	1,2,3,5	3	1	-	3
3	16IT503	Automata and Compiler Design	1,2,3	3	1	-	3
4	16IT504	Cloud Computing	2,6,7,8	3	1	-	3
5	16IT505	Object Oriented Analysis and Design	2,3, 4,5	3	-	2	4
6		Elective I/CC		3	1	-	3
7	16IT507	Cloud Computing Lab	4,5,PSO1,PSO2	-	-	3	2
9	16IT508/ 16IT509	Term Paper/ Mini Project	2,4,8,10,12/ 2,3,4,5,8,9,10,11	-	-	3	2
10	16HSX06	CC & EC Activity II		-	-	3	-
11	16ESX03	Employability Skills III		-	2	-	-
Total				18	7	11	23
Sixth Semester							
1	16HSX04	Engineering Economics & Project Management	11	3	1	-	3
2	16CS602	Data Mining	2,3,4,5	3	-	2	4
3	16CS603	Internet of Things	1,2,3,4,5,6	3	1	-	3
4	16IT604	Artificial Intelligence	1,2,3	3	1	-	3
5		Elective II/CC		3	1	-	3
6		Elective III (Open Elective)		3	1	-	3
7	16CS607	IOT Lab	4, 9	-	-	3	2
8	16IT508/ 16IT509	Term Paper/ Mini Project	2,4,8,10,12/ 2,3,4,5,8,9,10,11	-	-	3	2
9		Audit Course		-	-	-	-
10	16HSX06	CC & EC Activity II		-	-	3	1
11	16ESX04	Employability Skills IV		-	2	-	1
Total				18	7	11	25
Seventh Semester							
No	Course Code	Course	POs& PSOs	Periods			
				L	T	P	C
1	16IT701	Big Data Analytics	2,5,6	3	1	-	3
2		Elective IV/CC		3	1	-	3
3		Elective V/CC		3	1	-	3
4	16CS705	Mobile application Development lab	2,3, 8	-	-	3	2
5	16IT705	Big Data Analytics Lab	3,4,5	-	-	3	2
6	16IT706	Full Semester Internship ¹	1,2,5,8,9,10,11,12	-	-	-	16
Total				9	3	6	13/16
Eighth Semester							
1	16CS802	Machine Learning	2,5	3	1	-	3
2	16IT802	Professional Ethics	6,8	3	1	-	3
3		Elective VI/CC		3	1	-	3
4	16IT804	Project	3, 4,9,10,11,12, PSO1,PSO2	-	-	3	10
5	16IT706	Full Semester Internship ²	1,2,5,8,9,10,11,12	-	-	-	16
Total				9	3	3	19/16

¹Student who opt for FSI-16IT706 during 7th semester, have to register one more additional elective and 16CS705 & 16IT705 as additional lab courses during 8th semester

²Student the who opt for FSI-16IT706 during 8th semester, have to register an additional course in consultation with HoD during 7th semester

List of Electives

Elective I							
No	Course Code	Course	POs& PSOs	Periods			
				L	T	P	C
1	16IT001	Information System Design	3,5	3	1	-	3
2	16CS001	Computer Graphics & Multimedia	2,3,5	3	1	-	3
3	16CS004	Real Time Operating Systems	2, 3	3	1	-	3
4		MOOCs		-	-	-	3
Elective II							
1	16IT002	Distributed Systems	2,7	3	1	-	3
2	16IT003	Information Retrieval Systems	3,6,8	3	1	-	3
3	16IT004	Information Theory & Coding	1,2,3,6,8	3	1	-	3
4		MOOCs		-	-	-	3
Elective III (Open Electives – Mathematics, Chemistry, Entrepreneurship Skills, Industrial Safety and Engineering & Technology)							
1	16CE007	Disaster Management	2	3	1	-	3
2	16EE004	Renewable Energy Sources	2,7	3	1	-	3
3	16ME009	Principles of Entrepreneurship	1,5,8,11	3	1	-	3
4	16EC004	Fundamentals of Global Positioning System	1,2,6	3	1	-	3
5	16CS006	Computational Intelligence	2,3,5	3	1	-	3
6	16CS007	IOT for Engineering Applications	1,5	3	1	-	3
7	16CH007	Industrial Safety and Hazard Management	1,2,3,6,8	3	1	-	3
8	16IT005	Fundamentals of Cloud Computing	2,6,7,8	3	1	-	3
9	16PE007	Smart Grid Technologies	3,5	3	1	-	3
10	16MA001	Computational Mathematics	1,2	3	1	-	3
11	16CY001	Nano Science & Technology	1,12	3	1	-	3
Elective IV							
1	16IT006	Human Computer Interaction	5,7	3	1	-	3
2	16IT007	Middleware Technologies	5,11,PSO1,PSO2	3	1	-	3
3	16CS008	Software Project Management	3,5,6	3	1	-	3
4	16CS003	Qualitative Data Analysis	3,5	3	1	-	3
5		MOOCs		-	-	-	3
Elective V							
1	16EC602	Digital Signal Processing	1,2,3,PSO2	3	1	-	3
2	16IT008	Application Security	5,6,8	3	1	-	3
3	16IT009	Cryptography and Network Security	5,6,8	3	1	-	3
4	16CS009	Social Network Analysis	2,4,5,12	3	1	-	3
5		MOOCs		-	-	-	3
Elective VI							
1	16EC005	Digital Image Processing	3,5,6	3	1	-	3
2	16IT010	Computer Forensics	5,6,7,8	3	1	-	3
3	16IT011	E & M Commerce	5,6,8	3	1	-	3
5	16CS010	Multimedia Database	3,5,6	3	1	-	3
6	16CS011	Wireless Ad hoc Networks	3,5,6	3	1	-	3
7		MOOCs		-	-	-	3

Contemporary Courses (CC)³							
1	16IT012	Data Analytics-I	3,5,6	3	1	-	3
2	16IT013	Data Analytics-II	3,5,6,7	3	1	-	3
3	16IT014	Data Analytics-III	3,5,6	3	1	-	3
4	16CS012	Security Analytics-I	3,5,6	3	1	-	3
5	16CS013	Security Analytics-II	3,5,6	3	1	-	3
6	16CS014	Security Analytics-III	3,5,6	3	1	-	3
7	16IT015	Introduction to Data Analytics	3,5,6	3	1	-	3
8	16IT016	Enterprise Application development Using IBM RAD & Bluemix	3,5,6,7	3	1	-	3
9	16IT017	Big Data Analytics with Hadoop Platform	3,5,6,7	3	1	-	3
10	16IT018	Foundation course in Security Identity & Access Management.	3,5,6,7	3	1	-	3
11	16CSX16	Digital Marketing – (MOOCS)	2,5,12	-	-	-	1
One Credit Course (s)³							
1	16CSI01	Tibero@DB		1	0	0	1
2	16ITI01	Ethical Hacking & Cyber Security		1	0	0	1
3	16ITI02	Ruby on Rails		1	0	0	1
Audit Courses							
1	16AT001	Contemporary India: Economy, Polity & Society (ME)	-----				
2	16AT002	Indian Heritage and Culture (EEE)					
3	16AT003	Intellectual Property Rights and Patents (ECE)					
4	16AT004	Introduction to Journalism (CSE)					
5	16AT005	Professional Ethics and Morals (CE)					
6	16AT006	Science, Technology and Development (Chem.)					
7	16AT007	Industrial sociology (PE)					
8	16AT008	Organizational Behavior (IT)					
9	16AT009	Communication Etiquette in workplaces (BS& H)					

Departments of Computer Science & Engineering and Information Technology

Minutes of 6th Board of Studies Meeting

Date : 20-11-2015

Time: 10.00 A.M. to 1.00 P.M.
& 2.00 P.M. to 5.00 P.M.

AGENDA:

1. SWOT & GAP Analysis of the course structure and curriculum under AR13 regulations
2. Review & Finalization of course structure of UG Programmes under AR16 regulations.
3. Review & Finalization of course titles & content of UG Programmes under AR16 regulations.
4. Review & Finalization of course structure of PG Programmes under AR16 regulations.
5. Review & Finalization of course titles & content of PG Programmes under AR16 regulations.
6. Review & Revision of continuous assessment & semester end evaluation components under AR16 Regulations.
7. Review & Revision of continuous assessment system for AR16 Regulations.
8. Any other with the permission of the Chairman

Members Present :

S.No	NAME	DESIGNATION
1.	Dr. Srinivas Prasad	Chairman, BOS of CSE & IT, HOD - CSE
2.	Dr. P. Kanchanamala	Co-Chairman, BOS of CSE & IT, HOD - IT
3.	Dr. D. Rajyalakshmi	Member <i>D. Rajyalakshmi</i>
4.	Mr. Srikanth Gunturu	Member <i>G.S. Gunturu</i>
5.	Dr. Bansidahara Majhi	Member <i>Bansidahara Majhi</i>
6.	Dr. Anjaneyulu Pasala	Member <i>Anjaneyulu Pasala</i>
7.	Dr. Sasanko Sekhar Gantayat	Member
8.	Dr. V. Sreerama Murthy	Member
9.	Mr. A. Venkata Ramana	Member
10.	Mrs. R. Sivaranjani	Member
11.	Mrs. G. Anuradha	Member

12.	Sri D.K.Bebarta	Member
13.	Sri Ch. Sreenu Babu	Member
14.	Mr.Ajitkumar Rout	Member
15.	Sri Srinivasan Nagaraj	Member
16.	Sri K. Koteswara Rao	Member
17.	Mrs.S.Vani Kumari	Member
18.	Sri V.Srinadh	Member
19.	Sri M. Balajee	Member
20.	Mrs. I. Srilakshmi	Member
21.	Mrs.M.Vijaya Bharathi	Member
22.	Mrs. K.Srividya	Member
23.	Sri G. Narasinga Rao	Member
24.	Mr. G. Veerraju	Member
25.	Sri. K. Lakshmana Rao	Member
26.	Sri M. Rama Chandra	Member
27.	Ms. G. Neelima	Member
28.	Mr. P. Naga Raju	Member
29.	Sri Ch.Chakradhara Rao	Member
30.	Mrs. K. Jayasri	Member
31.	Mr. P. Muralidhara Rao	Member
32.	Mrs. V. Mahalakshmi	Member
33.	Mrs.N.Lakshmi Devi	Member
34.	Mr. A.V.Ramana	Member
35.	Mrs. M.Jyothi	Member
36.	Mr.M. Satish	Member
37.	Mr.P.Srihari	Member
38.	Mr.CH.R.Vinod Kumar	Member
39.	Mr.G.Satya Keerthi	Member
40.	Mrs.V.Vasudha Rani	Member
41.	Mrs.M.Suneetha	Member
42.	Mrs.A.Anupama	Member
43.	Mr.U.Chandra Sekhar	Member

Agenda 1: SWOT & GAP Analysis of the course structure and curriculum under AR13 regulations.

- Analyzed the comparison between AR-13 and AR-16 regulations and informed that AR-13 regulations are for 192 credits and AR-16 is for 174 credits.
- Informed that SWOT analysis is done and reviewed the course structure and proposed for AR-16 in line with industry, GATE, TOFEL and research perspective.
- Also informed that for theory subject 3 credits were allotted and for lab 2 credits in AR-16.
- Displayed all the new courses in AR-16 structures, informed that four theory courses and 2 lab courses were introduced in AR-16 curriculum.
 - Four theory courses includes Probability & statistics, PPL, MPA
 - Two labs were unix lab(External BOS suggested to have Linux Lab) and Internet concepts & Web design Lab.
 - Language processors lab is replaced with soft computing Lab

Agenda 2: Review & Finalization of course structure of UG Programmes under AR16 regulations.

Agenda 3: Review & Finalization of course titles & content of UG Programmes under AR16 regulations.

- 1st Semester: C& Data structures subject:
 - BoS suggested changing the title to "*problem solving using C*". ✓
 - BoS members suggested to include data structures part upto stacks and queues. Suggestion was given to remove the searching and sorting part from data structures.
 - Also given suggestion that, emphasis should be on problem solving.
 - Asked to remove Bala guruswamy text book from the text books list. Suggested to include Kernigen Ritchie and problem solving by Dormy.
- C & DS Lab:
 - Suggested to change title to problem solving using C Lab.
 - Asked to revise practical problem statements.
- 3rd Semester & 4th Semester: After so many deliberations, the finalized course structure for 3rd and 4th semesters are

S. Rajya Laxmi Board

G.S. Srinivas

Amritha

3 rd Semester	4 th Semester
Data Structures and Algorithms	Microprocessor through Interfacing
Digital Logic Design	Principles of Programming Language
Probability & Statistics	Computer organization & Architecture
Discrete Mathematics	Theory of Computation
Database Management Systems	Software Engineering
Object oriented programming through java	Advanced Java
Database Management Systems Lab	Microprocessor through Interfacing Lab
Object oriented programming through java Lab	Linux Lab
Data Structures Lab	Advanced Java Lab

- 5th Semester & 6th Semester: After so many deliberations, the finalized course structure for 5th and 6th semesters are

5 th Semester	6 th Semester
Compiler Design	Engineering Economics and Project Management
Computer Networks	Data Mining
Operating System	Object oriented Analysis and Design
Web Technologies(LAMP Stack)	Cryptography and Network Security
Design Analysis and Algorithms	E-2(RTOS/CG&M)
Software Verification and Validation	E-3(Computational Intelligence)
CN lab	OOAD lab
WT lab	Data Mining lab
Term Paper/ Mini Project	Research practice/Mini Project
Audit Course	CCEC

- 7th Semester(FSI) & 8th Semester: After so many deliberations, the finalized course structure for 5th and 6th semesters are

7 th Semester(FSI)	7 th Semester(NoN-FSI)
Internship	Software Reliability
	E-4(DSP/MT/MC/IoT)
	E-5(DS/HCI/QDA/SPM)
	Design & Analysis of Algorithms Lab
	Soft computing Lab

8 th Semester(Non - FSI)	8 th Semester (FSI)
Big Data Analytics	Internship
E-6 (DIP/IRS/CF/WAhN)	
E-7 (CC/BI/E-com/PR)	
Project Work	

- Suggested to include R Language to explore Big-Data Analytics.
- Suggestion was given to include mobile application development and Content based Image retrieval.

Agenda 5&6: Review & Finalization of course structure of PG Programmes under AR16 regulations.

- Suggestion was given to change the titles in the M.Tech course.
- Also suggested to change the theory subject credits from 4credits to 3 credits.
- Proposed to add more labs and informed that, M.Tech should have more learning hours than less contact hours.

Agenda 7: Review & Revision of continuous assessment system for AR16 Regulations.

- It has been decided to have 30% weightage for internal tests and 70% weightage for end semester Examinations.

Agenda 8: Summary of reviews and suggestions received from various stakeholders.

- Majority of Stakeholders had given that PEOs formulated are good enough catering to the achievement of the mission of the department.
- Reviews on POs were also found to be satisfactory as POs formulated covers all the graduate attributes prescribed by NBA
- Suggestions on courses to be included, project domains to be concentrated will be taken care in the design of curriculum

Pradeep

G. S. Srinivas

H. M. Srinivas

D. Rajya Laxmi