

Dr.AMBEDKAR INSTITUTE OF TECHNOLOGY
DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

The Enclosed documents are verified and approved



HOD,ISE
HEAD

Dept. of Information Science & Engg.
Dr. Ambedkar Institute of Technology
Bangalore-560 099.

Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY
BANGALORE - 56

Date: 23.08.2010

Minutes of the 1st Academic Council meeting held on 21st August 2010 at 10.30 am in the Board room of Dr. AIT

Members Present

Sr No	Constitution	Nature	Name
1	The Principal of the College	Chairperson	Dr P.Martin Jebaraj
2	All the Heads of Department in the College	Members	Dr C.Nanjunda Swamy Dr B.M.Nandeeshalah Dr B.V.Sunangala Dr Mjeenakshi Dr Shivakumar Prof Siddaraju Dr Rajendra Prof Prabha Prof Manjunath.A.P. Dr K.L.Savitramma Dr V.Bheemaraju Dr Sooryanarayana Rao
3	Four teachers of the college representing different levels of teaching staff by rotation on the basis of seniority of service in the college, to be nominated by the Principal	Members	1) Dr Manjunath Hegde 2) Dr T.Sreenivasulu Reddy 3) Prof G.Devaraju 4) Smt. Leena <i>Vijayalakshmi Pahl</i>
4	Not less than four experts from outside the college representing such areas as Industry, R and D labs, Technical Education,	Members	1) Dr S. Seetharamu Additional Director CPRI, Bangalore 2) Dr G.R.Nagabhushana Former Chairman HVE, IISc, Bangalore 3) Mr Rajendra Prasad Vice President Electro Systems Associates Pvt Ltd, Bangalore 4) Mr B.N.Satyesh Senior Vice-president Tejas Network Ltd Bangalore

5	Three nominees of the University,	Members	1. Dr T.V. Govindaraju Principal Shirdi Sai Engg College 2. Dr H.R. Yashavanth Principal, SEACE Bangalore 3. Dr V.R. Manjunath Principal Sapthagiri College of Engg Bangalore
6	A faculty member, nominated by the Principal	Member Secretary	Dean (Academic) Dr B.V. Sumangala

Members Absent

1. Dr. G.R. Nagabhushana
2. Dr. Yeshovanth

Principal welcomed all the members of the committee and they were introduced. He explained about the constitution of the committee, tenure of the committee and the duties and responsibilities. He also explained about the courses of the institution going for autonomy and briefed about the various procedures followed to make the institution prepare for the implementation of academic autonomy.

Principal explained the various issues related to academic structure of autonomy at Dr. AIT with reference to the guidelines by VTU. The details of the deliberation made by experts are as follows:-

Agenda 1 :

Recommendations of guidelines to all UG programmes – Autonomy structure, a) Credit system, b) Grading system, c) Eligibility criteria etc.

The following resolutions were made by the committee and the regulations are recommended and was proposed to place in GOVERNING BODY for approval.

a. Credit System

The committee recommended the following credits structure based on VTU guidelines

- BE Degree Programme – Entry in I year
- 200 Credits
- BE Degree Programme – Entry in II year
- Lateral Entry
- 150 Credits (with bridge course – Mathematics)

b. Academic Calendar

The major events with the corresponding period for execution are:-

Main Semester (Odd)	: 19 Weeks
Recess	: 2 Weeks
Main Semester (Even)	: 19 Weeks
Recess	: 2 Weeks
Supplementary Semester	: 8 Weeks
Recess	: 2 Weeks
Total	: 52 Weeks.

Make-up examination after the Semester End Examinations (SEE) as per notification.

c. Evaluation Methodology

The evaluation consists of two components

1. Continuous Internal Evaluation – CIE for 50 Marks
2. End Semester Evaluation – SEE for 50 Marks – It is essential to obtain minimum requirement is 40 % in both CIE and SEE to qualify for appearing for examination and to get pass grade in a subject respectively.

d. Grading Methodology

The absolute grading system is adopted in our case. The various grades are generated based on the examination rules out of 100 and is shown in table. These grades are then converted to grade points and the SEPA is determined.

Level	Out-standing	Excellent	Very Good	Good	Average	Poor	Fail
Grade	S	A	B	C	D	E	F
Grade Points	10	09	08	07	05	04	00
Score (Marks) Range (%)	90-100	75-89	60-74	50-59	45-49	40-44	<40

- Grades
- W – Withdrawal of any course
 - I – Not writing SEE for a genuine reason
 - X – Scoring >80% in CIE but getting F (fail) grade in SEE

e. Eligibility Criteria

A student can carry 4 subjects at the end of any even semester which includes

- Failed subjects and
- 'Not Eligible' subjects to write SEE due to shortage of marks in CIE (< 20 marks) or shortage of attendance (< 85%)

Agenda 2. Recommendation of BOS committees for various Departments

The Board of Studies for all the 13 Departments were formed and placed in GB for approval

Agenda 3 : Recommendations for common BOE for I year

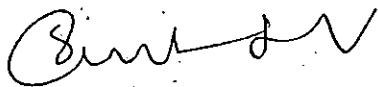
It was proposed to have a common Board of Examiners for I year.

Agenda 4 : Recommendations for all rules and regulations pertaining to Examination

After fully going through the document the examination rules and regulations are recommended by Academic Council

Agenda 5 : Any Other subject

Dr Govindaraju suggested to increase the minimum requirement for CIE for practicals.



DEAN (ACADEMIC)



Principal

Dr. Ambedkar Institute of Technology
Bangalore-560 056



Panchajanya Vidya Peetha Welfare Trust (Regd)

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BDA Outer Ring Road, Mallathalli, Bengaluru - 560 056

Ref. No. AIT/ISE/605/2023

Date: 05-01-2023

Scheme for 2018-2022 BATCH

Dr. Ambedkar Institute of Technology, Bengaluru-560 056												
SCHEME OF TEACHING AND EXAMINATION from Academic Year 2019-20												
B.E INFORMATION SCIENCE AND ENGINEERING												
Outcome Based Education (OBE) and Choice Based Credit System (CBCS)												
III SEMESTER												
Sl. No	Course and Course Code		Course Title	Teaching Department	Teaching Hours /Week			Examination				Credits
					Theory Lecture	Tutorial	al/ Drawin	Duration in hours	CIE Marks	SEE Marks	Total Marks	
					L	T	P					
1	B C	18MA31	Discrete Mathematics and Numerical Methods	Mathematics	2	2	--	03	50	50	100	3
2	PC	18IS31	Computer Organization and Architecture	ISE	4	0	--	03	50	50	100	4
3	PC	18IS32	Data Structures with C	ISE	4	0	--	03	50	50	100	4
4	PC	18IS33	Unix and Shell Programming	ISE	3	2	--	03	50	50	100	4
5	PC	18IS34	Digital principles and logic design	ISE	3	0	--	03	50	50	100	3
6	PC	18IS35	Software Engineering	ISE	3	0	--	03	50	50	100	3
7	PC	18ISL36	Data structure with C Lab	ISE	--		2	03	50	50	100	1
8	PC	18ISL37	Digital principles and logic design Lab	ISE	--		2	03	50	50	100	1
9	H S	18HS31/32	Constitution of India Professional Ethics and Human Rights/ / Env. Studies	Hu/Civl	1	--	--	02	50	50	100	1
10	M C	18HS33	Soft skills (MC)	Humanities	04		--	03	50	-	50	0
TOTAL					24	04	04	29	500	450	950	24
Course prescribed to lateral entry Diploma holders admitted to III semester of Engineering programs												
11	M C	18MAD31	Advance Mathematics - I	Mathematics	02	01	--	03	50		50	0
<p>Note: HODs are informed to accommodate one more laboratory in addition to the above courses if needed, without altering the total number of credits (TOTAL: 24).</p> <p>(a) The mandatory non – credit courses Advance Mathematics I and II prescribed at III and IV semesters respectively, to lateral entry Diploma holders admitted to III semester of BE programs shall compulsorily be registered during respective semesters to complete all the formalities of the course and appear for SEE examination.</p> <p>(b) The mandatory non – credit courses Advance Mathematics I and II, prescribed to lateral entrant Diploma holders admitted to III semester of BE programs, are to be completed to secure eligibility to VII semester. However, they are not considered for vertical progression from II year to III year of the programme but considered as head of passing along with credit courses of the programme to eligibility to VII semester</p> <p>Note: BC: Science Course, PC: Professional Core, Hu: Humanities, MC: Mandatory Course.</p>												

BOS Chairman
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Dept of Information Science & Engg,
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B.E INFORMATION SCIENCE AND ENGINEERING												
Outcome Based Education (OBE) and Choice Based Credit System (CBCS)												
IV SEMESTER												
Sl. No	Course and Course code		Course Title	Teaching Department	Teaching Hours /Week			Examination			Credits	
					Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks		Total Marks
					L	T	P					
1	B C	18MA41	Probability, Queuing Theory and Reliability	Mathematics	2	2	--	03	50	50	100	3
2	PC	18IS41	Microcontroller and Embedded Systems	ISE	3	0	--	03	50	50	100	3
3	PC	18IS42	Design and Analysis of Algorithm	ISE	4	0	--	03	50	50	100	4
4	PC	18IS43	Object Oriented Concepts	ISE	4	0	--	03	50	50	100	4
5	PC	18IS44	Python Programming	ISE	3	0	--	03	50	50	100	3
6	PC	18IS45	Computer Networks	ISE	3	2	--	03	50	50	100	4
7	PC	18ISL46	Object Oriented Concepts Lab	ISE	--		2	03	50	50	100	1
8	PC	18ISL47	Design and Analysis of Algorithm Laboratory	ISE	--		2	03	50	50	100	1
9	HS	18HS41/42	Constitution of India Professional Ethics and Human Rights/ Env. Studies	Hum/Civ	1	--	--	02	50	50	100	1
10	M C	18HS43	Employability skills (MC)	Humanities	04		--	03	50	-	50	0
TOTAL					24	04	04	29	500	450	950	24
Course prescribed to lateral entry Diploma holders admitted to III semester of Engineering programs												
11	M C	18MAD41	Advance Mathematics - II	Mathematics	02	01	--	03	50		50	0
<p>Note: HODs are informed to accommodate one more laboratory in addition to the above courses if needed, without altering the total number of credits (TOTAL: 24).</p> <p>(a) The mandatory non – credit courses Advance Mathematics I and II prescribed at III and IV semesters respectively, to lateral entrant Diploma holders admitted to III semester of BE programs shall compulsorily be registered during respective semesters to complete all the formalities of the course and appear for SEE examination.</p> <p>(b) The mandatory non – credit courses Advance Mathematics I and II, prescribed to lateral entrant Diploma holders admitted to III semester of BE programs, are to be completed to secure eligibility to VII semester. However, they are not considered for vertical progression from II year to III year of the programme but considered as head of passing along with credit courses of the programme to eligibility to VII semester.</p> <p>Note: BC: Science Course, PC: Professional Core. Hu: Humanities, MC: Mandatory Course. ENV: Environmental Studies, CIP: Constitution of India Professional Ethics and Human Rights</p>												

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Dr. Ambedkar Institute of Technology, Bengaluru-560 056												
SCHEME OF TEACHING AND EXAMINATION from Academic Year 2020-2021												
B.E Information Science and Engineering												
Outcome Based Education (OBE) and Choice Based Credit System (CBCS)												
V SEMESTER												
S I. N o	Cours e and Cours e code		Course Title	Teaching Department	Teaching Hours /Week			Examination				Credits
					Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	
					L	T	P					
1	HS	18HS51	Intellectual Property Rights	Hu	3	-	-	0 3	50	50	100	3
2	PC	18IS51	Operating System	ISE	3	-	-	0 3	50	50	100	3
3	PC	18IS52	Web Technologies	ISE	3	2	-	0 3	50	50	100	4
4	PC	18IS53	Artificial Intelligence	ISE	3	-	-	0 3	50	50	100	3
5	PC	18IS54	Data base Management Systems	ISE	4	-	-	0 3	50	50	100	4
6	PE	18IS55 X	Elective -I	ISE	3	-	-	0 3	50	50	100	3
7	OE	18ISE01 X	Open Elective -A	ISE	3	-	-	0 3	50	50	100	3
8	PC	18ISL56	Computer Networks Lab	ISE	-	-	2	0 3	50	50	100	1
9	PC	18ISL57	Data base Manageme nt System Lab	ISE	-	-	2	0 3	50	50	100	1
TOTAL					22	2	4	27	450	450	900	25
Note: PC: Professional core, PE: Professional Elective, OE: Open Elective, MP: Mini-Project, INT: Internship.												

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Ref. No. AIT/ISE/605/0023

Date : 05-01-2023

Electives			
Course code	Professional Electives -1		Open Elective -A
18IS551	Internet of things		<p>Students can select any one of the open electives (Please refer to consolidated list of Dr AIT for open electives) offered by any Department.</p> <p>Selection of an open elective is not allowed provided,</p> <ul style="list-style-type: none">The candidate has studied the same course during the previous semesters of the programme.The syllabus content of open elective is similar to that of Departmental core courses or professional electives.A similar course, under any category, is prescribed in the higher semesters of the programme. <p>Registration to electives shall be documented under the guidance of Programme Coordinator/ Mentor.</p>
18IS552	Unix System Programming		
18IS553	Information systems		
Open Elective -A INTER-DEPARTMENTAL ELECTIVE OFFERED BY ISE			
Subject Code	Subject Title	No. of credits	
18ISE011	Machine Learning	3	
18ISE012	Internet of Things	3	
18ISE013	Information Systems	3	

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Dr. Ambedkar Institute of Technology, Bengaluru-560 056 SCHEME OF TEACHING AND EXAMINATION from Academic Year 2020-2021 B.E Information Science and Engineering Outcome Based Education (OBE) and Choice Based Credit System (CBCS)												
VI SEMESTER												
S l · N o	Course and Course code	Course Title	Teaching Department	Teaching Hours /Week			Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits	
				Theory Lecture	Tutorial	Practical/ Drawing						
				L	T	P						
1	H S 61	Management and Entrepreneurship	Hu	3	-	-	03	50	50	100	3	
2	P C 1	Automata theory and compiler design	ISE	3	2	-	03	50	50	100	4	
3	P C 2	Machine Learning	ISE	4	-	-	03	50	50	100	4	
4	P C 3	Cloud Computing	ISE	3	-	-	03	50	50	100	3	
5	P E 4X	Professional Elective -2	ISE	3	-	-	03	50	50	100	3	
6	O E 02X	Open Elective -B	ISE	3	-	-	03	50	50	100	3	
7	P C 65	Machine Learning Lab	ISE	-	-	2	03	50	50	100	1	
8	P C 66	Cloud Computing Lab	ISE	-	-	2	03	50	50	100	1	
9	M P MP67	Mini-project	ISE	-	-	-	03	50	50	100	2	


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10	INT	18IS168	Industry Internship	(To be carried out during the intervening vacations of VI and VII semesters)	-	-	--	--	--																										
TOTAL					19	2	4	27	450	900	24																								
<p>Note: PC: Professional core, PE: Professional Elective, OE: Open Elective, MP: Mini-Project, INT: Internship.</p> <p style="text-align: center;">Electives</p> <table border="1" style="width: 100%;"> <thead> <tr> <th>Course code</th> <th>Professional Electives -2</th> <th>Open Elective -B</th> </tr> </thead> <tbody> <tr> <td>18IS641</td> <td>Advanced Java and J2EE</td> <td rowspan="4"> <p>Students can select any one of the open electives (Please refer to consolidated list of Dr AIT for open electives) offered by any Department. Selection of an open elective is not allowed provided:</p> <ul style="list-style-type: none"> The candidate has studied the same course during the previous semesters of the programme. The syllabus content of open elective is similar to that of Departmental core courses or professional electives. A similar course, under any category, is prescribed in the higher semesters of the programme. <p>Registration to electives shall be documented under the guidance of Programme Coordinator/ Mentor.</p> </td> </tr> <tr> <td>18IS642</td> <td>Digital Image Processing</td> </tr> <tr> <td>18IS643</td> <td>Network and Cyber Security</td> </tr> <tr> <td colspan="2" style="text-align: center;">Open Elective -B INTER-DEPARTMENTAL ELECTIVE OFFERED BY ISE</td> </tr> <tr> <td>Sub Code</td> <td>Subject Title</td> <td></td> </tr> <tr> <td>18ISE021</td> <td>Data Base Management System</td> <td></td> </tr> <tr> <td>18ISE022</td> <td>Web Technologies</td> <td></td> </tr> <tr> <td>18ISE023</td> <td>Unix and Shell Programming</td> <td></td> </tr> </tbody> </table>												Course code	Professional Electives -2	Open Elective -B	18IS641	Advanced Java and J2EE	<p>Students can select any one of the open electives (Please refer to consolidated list of Dr AIT for open electives) offered by any Department. Selection of an open elective is not allowed provided:</p> <ul style="list-style-type: none"> The candidate has studied the same course during the previous semesters of the programme. The syllabus content of open elective is similar to that of Departmental core courses or professional electives. A similar course, under any category, is prescribed in the higher semesters of the programme. <p>Registration to electives shall be documented under the guidance of Programme Coordinator/ Mentor.</p>	18IS642	Digital Image Processing	18IS643	Network and Cyber Security	Open Elective -B INTER-DEPARTMENTAL ELECTIVE OFFERED BY ISE		Sub Code	Subject Title		18ISE021	Data Base Management System		18ISE022	Web Technologies		18ISE023	Unix and Shell Programming	
Course code	Professional Electives -2	Open Elective -B																																	
18IS641	Advanced Java and J2EE	<p>Students can select any one of the open electives (Please refer to consolidated list of Dr AIT for open electives) offered by any Department. Selection of an open elective is not allowed provided:</p> <ul style="list-style-type: none"> The candidate has studied the same course during the previous semesters of the programme. The syllabus content of open elective is similar to that of Departmental core courses or professional electives. A similar course, under any category, is prescribed in the higher semesters of the programme. <p>Registration to electives shall be documented under the guidance of Programme Coordinator/ Mentor.</p>																																	
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Sub Code	Subject Title																																		
18ISE021	Data Base Management System																																		
18ISE022	Web Technologies																																		
18ISE023	Unix and Shell Programming																																		

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B.E Information Science and Engineering

Outcome Based Education (OBE) and Choice Based Credit System (CBCS)

VII SEMESTER

Sl. No	Course and Course code		Course Title	Teaching Department	Teaching Hours /Week			Examination				Credits
					Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	
1	MC	18HS71/72	CMEP / OSHA	IM/CV	2	--	--	03	50	50	100	2
2	PC	18IS71	Big Data Analytics	ISE	4	-	--	03	50	50	100	4
3	PC	18IS72	Software Testing	ISE	4	--	--	03	50	50	100	4
4	PE	18IS73X	Elective-3	ISE	3	--	--	03	50	50	100	3
5	PE	18IS74X	Elective-4	ISE	3	--	--	03	50	50	100	3
6	OE	18IS75X	Open-Elective C	ISE	3	--	--	03	50	50	100	3
7	PC	18ISL76	Big Data Analytics Lab	ISE	--	--	2	03	50	50	100	1
8	PC	18XXL77	Software Testing Lab		--	--	2	03	50	50	100	1
9	Project	18ISP78	Project Work Phase-I	ISE	--	--	2	03	50	50	100	2
10	INT	18ISI79	Internship	((If not completed after (If not completed after VI semester examinations , it has to be carried out during the intervening vacations of VII and VIII semesters)				03	---	--	--	--
TOTAL					19		4	27	450	450	900	23

Note: PC: Professional core, PE: Professional Elective, OE: Open Elective, MC: Mandatory Course, INT: Internship.

Internship: All the students admitted to III year of BE have to undergo mandatory internship of 4 weeks during the vacations of VI and VII semesters and /or VII and VIII semesters. A SEE examination will be conducted during VIII semester and prescribed credits shall be added to VIII semester. Internship is considered as a head of passing and is considered for the award of degree. Those, who do not take-up/complete the internship will be declared as failed and have to complete during subsequent SEE examination after satisfy the internship requirements.

BOS Chairman

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Electives			
Course	Electives - 3	Open Elective -B	
18IS731	Artificial Neural Networks	Students can select any one of the open electives (Please refer to consolidated list of Dr. AIT for open electives) offered by any Department. Selection of an open elective is not allowed provided, · The candidate has studied the same course during the previous semesters of the programme. · The syllabus content of open elective is similar to that of Departmental core courses or professional electives. · A similar course, under any category, is prescribed in the higher semesters of the programme. Registration to electives shall be documented under the guidance of Programme Coordinator/ Mentor.	
18IS732	C# Programming and .Net		
18IS733	Software Architecture		
18IS734	BlockChain Technology		
Course Code	Electives - 4		
18IS741	Storage Area Network		
18IS742	Ethical Hacking		
18IS743	Soft and Evolutionary Computing		
18IS744	Deep Learning		
Course code	Open Elective -C		
18IS751	Mobile Application Development		
18IS752	Python Programming		
18IS753	Artificial Intelligence		
CMEP: Cost Management of Engg.Projects,			OSHA: Occupational Safety and Health Administration


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VIII SEMESTER												
Sl. No	Course and Course code		Course Title	Teaching Department	Teaching Hours /Week			Examination				Credits
					Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	
L	T	P										
1	MC	18IM81/18CV81	CMEP / OSHA	IM/CV	4	--	--	03	50	50	100	2
2	Project	18ISP81	Project Work phase-2	ISE		-	2	03	50	50	100	10
3	Seminar	18ISS82	Technical Seminar	ISE	-	--	2	03	50	50	100	1
4	INT	18ISI83	Internship	ISE	(Completed during the intervening vacations of VI and VII semesters and /or VII and VIII semester)			03	50	50	100	2
TOTAL					04		4	12	200	200	400	15
Note: INT: Internship, MC: Mandatory Course												
Electives												
Internship: Those, who have not pursued /completed the internship will be declared as failed and have to complete during subsequent SEE examination after they satisfy the internship requirements												
CMEP: Cost Management of Engg Projects, OSHA: Occupational Safety and Health Administration												


BOS Chairman
HEAD


Principal

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