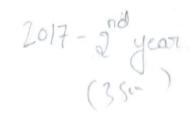
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Choice Based Credit System (CBCS)



B.E: Information Science and Engineering

III SEMESTER

Sl.			Teaching	Teaching	Hours /Week		Exami	nation		Credits
No	Course Code	Title	Department	Theory	Practical/ Drawing	Duration in hours	SEE Marks	CIE Marks	Total Marks	
1	17MAT31	Engineering Mathematics - III	Maths	04		03	60	40	100	4
2	17CS32	Analog and Digital Electronics	CS/IS	04		03	60	40	100	4
3	17CS33	Data Structures and Applications	CS/IS	04		03	60	40	100	4
4	17CS34	Computer Organization	CS/IS	04		03	60	40	100	4
5	17CS35	Unix and Shell Programming	CS/IS	03		03	60	40	100	3
6	17CS36	Discrete Mathematical Structures	CS/IS	04		03	60	40	100	4
7	17CSL37	Analog and Digital Electronics Laboratory	CS/IS	01-Hour Ir 02-Hour P		03	60	40	100	2
8	17CSL38	Data Structures Laboratory	CS/IS	01-Hour Ir 02-Hour P		03	60	40	100	2
9	17KL/CPH39/49	Kannada/Constitution of India, Professional Ethics and Human Rights	Humanities	01		01	30	20	50	01
		TOTAL			: 24hours al: 06 hours	25	510	340	850	28

1.Kannada/Constitution of India, Professional Ethics and Human Rights: 50 % of the programs of the Institution have to teach Kannada/Constitution of India, Professional Ethics and Human Rights in cycle based concept during III and IV semesters.

2. Audit Course:

(i) *All lateral entry students (except B.Sc candidates) have to register for Additional Mathematics – I, which is 03 contact hours per week.

_								
	1 17MATDIP31	Additional Mathematics -I	Maths	03	03	60	 60	

(ii) Language English (Audit Course) be compulsorily studied by all lateral entry students (except B.Sc candidates)

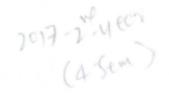
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Alva's Institute of Engg. & Technology
Mijar, MOODBIDRI - 574

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Choice Based Credit System (CBCS)



B.E: Information Science and Engineering

IV SEMESTER

SI.			Teaching	Teaching H	ours /Week		Exami	nation		Credits
No	Course Code	Title	Department	Theory	Practical/ Drawing	Duration in hours	SEE Marks	CIE Marks	Total Marks	
1	17MAT41	Engineering Mathematics - IV	Maths	04		03	60	40	100	4
2	17CS42	Object Oriented Concepts	CS/IS	03		03	60	40	100	3
3	17CS43	Design and Analysis of Algorithms	CS/IS	04		03	60	40	100	4
4	17CS44	Microprocessors and Microcontrollers	CS/IS	04		03	60	40	100	4
5	17CS45	Software Engineering	CS/IS	04		03	60	40	100	4
6	17CS46	Data Communication	CS/IS	04		03	60	40	100	4
7	17CSL47	Design and Analysis of Algorithm Laboratory	CS/IS	01-Hour Instr 02-Hour Pract		03	60	40	100	2
8	17CSL48	Microprocessors Laboratory	CS/IS	01-Hour Instr 02-Hour Prace		03	60	40	100	2
9	17KL/CPH39/49	Kannada/Constitution of India, Professional Ethics and Human Rights	Humanities	01		01	30	20	50	01
			TOTAL	Theory: 24 Practical: 06		25	510	340	850	28

^{1.} Kannada/Constitution of India, Professional Ethics and Human Rights: 50 % of the programs of the Institution have to teach Kannada/Constitution of India, Professional Ethics and Human Rights in cycle based concept during III and IV semesters.

2. Audit Course:

(i) *All lateral entry students (except B.Sc candidates) have to register for Additional Mathematics - II, which is 03 contact hours per week.

1	17MATDIP41	Additional Mathematics -II	Maths	03	03	60		60	 -
-							1		6

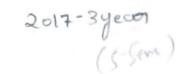
(ii) Language English (Audit Course) be compulsorily studied by all lateral entry students (except B.Sc candidates)

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VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI

Scheme of Teaching and Examination 2017-2018

Choice Based Credit System (CBCS)



B.E: Information Science and Engineering

V SEMESTER

SI.		Title	Teaching Department	Teaching	Hours /Week		Exami	nation		Credits
No	Course Code	e		Theory	Practical/ Drawing	Duration in hours	SEE Marks	CIE Marks	Total Marks	
1	17CS51	Management and Entrepreneurship for IT Industry	CS/IS	04		03	60	40	100	4
2	17CS52	Computer Networks	CS/IS	04		03	60	40	100	4
3	17CS53	Database Management System	CS/IS	04	* -	03	60	40	100	4
4	17CS54	Automata theory and Computability	CS/IS	04		03	60	40	100	4
5	17CS/IS55x	Professional Elective-1	CS/IS	03		03	60	40	100	3
6	17CS56x	Open Elective-1	CS/IS	03		03	60	40	100	3
7	17CSL57	Computer Network Laboratory	CS/IS	01-Hour I 02-Hour I	nstruction Practical	03	60	40	100	2
8	17CSL58	DBMS Laboratory with mini project	CS/IS	01-Hour I 02-Hour I	nstruction Practical	03	60	40	100	2
			TOTAL		22hours : 06 hours	24	480	320	800	26

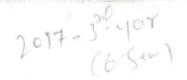
Professiona	l Elective-1	Open Electiv	ve – 1*** (List offered by CSE Board only)
17CS551	Object Oriented Modeling and Design	17CS561	Programming in JAVA (Not for CSE/ISE students)
17IS552	Social Network Analysis	17CS562	Artificial Intelligence
17CS553	Advanced JAVA and J2EE	17CS563	Embedded Systems
17IS554	Programming Languages	17CS564	Dot Net framework for application development;
		17CS565	Cloud Computing (Not for CSE/ISE students)

^{***}Students can select any one of the open electives offered by any Department (Please refer to consolidated list of VTU for open electives). Selection of an open elective is not allowed, if:

The syllabus content of the selected open elective is similar to that of Departmental core course(s) or to be studied Professional elective(s). Registration to open electives shall be documented under the guidance of Programme Coordinator and Adviser.

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI Scheme of Teaching and Examination 2017-201

Choice Based Credit System (CBCS)



B.E: Information Science and Engineering

VI SEMESTER

SI.	Course	Title	Teaching Department	Teaching Hours /Week				Credits		
No	Code			Theory	Practical/ Drawing	Duration in hours	SEE Marks	CIE Marks	Total Marks	
1	17CS61	Cryptography, Network Security and Cyber Law	CS/IS	04		03	60	40	100	4
2	17IS62	File Structures	CS/IS	04		03	60	40	100	4
3	17IS63	Software Testing	CS/IS	04		03	60	40	100	4
4	17CS64	Operating Systems	CS/IS	04		03	60	40	100	. 4
5	17CS/IS65x	Professional Elective-2	CS/IS	03		03	60	40	100	3
6	17CS66x	Open Elective-2	CS/IS	03		03	60	40	100	3
7	17ISL67	Software Testing Laboratory	CS/IS	01-Hour Ir 02-Hour P		03	60	40	100	2
8	17ISL68	File Structures Laboratory with mini project	CS/IS	01-Hour In 02-Hour P		03	60	40	100	2
			TOTAL	Theory:22 Practical:		24	480	320	800	26

Professiona	l Elective-2	Open Elective	e – 2*** (List offered by CSE Board only)
17CS651	Data Mining and Data Warehousing	17CS661	Mobile Application Development
17IS652	System Software	17CS662	Big Data Analytics (Not for CSE/ISE students)
17CS653	Operations research	17CS663	Wireless Networks and Mobile computing
17CS654	Distributed Computing system	17CS664	Python Application Programming
		17CS665	Service Oriented Architecture
		17CS666	Multicore Architecture and Programming

^{***}Students can select any one of the open electives offered by any Department (Please refer to consolidated list of VTU for open electives). Selection of an open elective is not allowed, if:

The candidate has studied similar content course during previous semesters.

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The candidate has no pre – requisite knowledge.

The syllabus content of the selected open elective is similar to that of Departmental core course(s) or to be studied Professional elective(s) Institute of Engg. & Technology Registration to open electives shall be documented under the guidance of Programme Coordinator and Adviser.

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B.E: Information Science and Engineering

VII SEMESTER

Sl.			Teaching	Teaching	Hours /Week		Examin	ation		Credits
No	Course Code	Title	Department	Theory	Practical/ Drawing	Duration in hours	SEE Marks	CIE Marks	Total Marks	
1	17CS71	Web Technology and its applications	CS/IS	04		03	60	40	100	4
2	17IS72	Software Architecture and Design Patterns	CS/IS	04		03	60	40	100	4
3	17CS73	Machine Learning	CS/IS	04		03	60	40	100	4
4	17CS/IS74x	Professional Elective 3	CS/IS	03	_	03	60	40	100	3
5	17CS/IS75x	Professional Elective 4	CS/IS	03		03	60	40	100	3
6	17CSL76	Machine Learning Laboratory	CS/IS	01-Hour Instruction 02-Hour Practical		03	60	40	100	2
7	17CSL77	Web Technology Laboratory with mini project	CS/IS	01-Hour Ir 02-Hour P		03	60	40	100	2
8	17ISP78	Project Work Phase-I + Project work Seminar	CS/IS		03	-		100	100	2
		TOTAL		Theory:18 Practical a 09 hours	hours and Project:	21	420	380	800	24

Profession	al Elective-3	Professional	Elective-4
17CS741	Natural Language Processing	17CS751	Soft and Evolutionary Computing
17CS742	Cloud Computing and its Applications	17CS752	Computer Vision and Robotics
17CS743	Information and Network Security	17IS753	Information Management System
17CS744	Unix System Programming	17CS754	Storage Area Networks

1. Project Phase – I and Project Seminar: Comprises of Literature Survey, Problem identification, Objectives and Methodology. CIE marks shall be based on the report covering Literature Survey, Problem identification, Objectives and Methodology and Seminar presentation skill.

PRINCIPAL

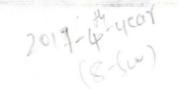
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B.E: Information Science and Engineering

VIII SEMESTER

Sl.			Teaching	Teachin	g Hours /Week		Examin	ation		Credits
No	Course Code	Title	Department	Theory	Practical/ Drawing	Duration in hours	SEE Marks	CIE Marks	Total Marks	
1	17CS81	Internet of Things and Applications	CS/IS	- 4	-	3	60	- 40	100	4
2	17CS82	Big Data Analytics	CS/IS	4	-	3	60	40	100	4
3	17CS/IS83X	Professional Elective-5	CS/IS	3	-	3	60	40	100	3
4	17IS84	Internship/ Professional Practice	CS/IS	Indust	ry Oriented	3	50	50	100	2
5	17ISP85	Project Work-II	CS/IS	- 1	6	3	100	100	200	6
5	17ISS86	Seminar	CS/IS	-	4	-	-	100	100	1
		TOTAL		Theory: 1 Project as 10 hours	1 hours ad Seminar:	15	330	370	700	20

Profession	al Elective -5
17CS831	High Performance Computing
17CS832	User Interface Design
17IS833	Virtual Reality
17CS834	System Modeling and Simulation

1. Internship/ Professional Practice: 4 Weeks internship to be completed between the (VI and VII semester vacation) and/or (VII and VIII semester vacation) period.

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