



ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY

A Unit of Alva's Education Foundation (R)

(Affiliated to Visvesvaraya Technological University, Belagavi

Approved by AICTE, New Delhi & Recognised by Government of Karnataka)

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Ref: AIET/ACA/2019-20/04

Date : 19/Oct/2019

To ,

The Chairman

Board of Studies (BoS)

Computer Science & Engineering

VTU , Belagavi

Respected Sir ,

Subject : Reg- Identification of Curriculum Gaps for the schemes 2018 VTU Syllabus.

With reference to the above cited subject, I would like to bring to your kind notice that we have identified some curriculum gaps in few subjects for 2018 scheme VTU Syllabus. We kindly request you to consider these identified gaps and incorporate the same in the upcoming revision of the syllabus in the interest of students and faculties.

Thanking You Sir ,

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Curriculum Gaps and Suggestions

- 1] In Cryptography Network Security and Cyber Law (17CS61) , the various concepts related to cyber security and practical aspects are not much focused. This may be incorporated in upcoming scheme.
- 2] In Microprocessor & Microcontroller(17CS44), students are studying only 8086 architecture concepts and ARM processor. We kindly request you to include concepts with respect to industry needs in the upcoming revised syllabus.
- 3] In 2017 scheme , Advanced JAVA & J2EE (17CS553) is offered as professional elective course. Since Java & J2EE is required for all students to do their final year project, we request you to make this subject as core subject.
- 4] In Big Data Analytics (17CS82) , the practical approaches of Hadoop concepts can be included.

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
Scheme of Teaching and Examination 2017-2018
Choice Based Credit System (CBCS)

V SEMESTER

B.E: Information Science and Engineering

Sl. No	Course Code	Title	Teaching Department	Teaching Hours /Week		Examination				Credits
				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 Instruction 02-Hour Practical		03	60	40	100	2
8	17CSL58	DBMS Laboratory with mini project	CS/IS	01-Hour Instruction 02-Hour Practical		03	60	40	100	2
TOTAL				Theory: 22hours Practical: 06 hours		24	480	320	800	26

Professional Elective-1		Open Elective - 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 candidate has no pre-requisite knowledge.
 • The candidate has studied similar content course during previous semesters.
 • 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.

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Scheme of Teaching and Examination 2017-2018
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B.E: Information Science and Engineering

VI SEMESTER

Sl. No	Course Code	Title	Teaching Department	Teaching Hours /Week		Examination				Credits
				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 Instruction 02-Hour Practical		03	60	40	100	2
8	17ISL68	File Structures Laboratory with mini project	CS/IS	01-Hour Instruction 02-Hour Practical		03	60	40	100	2
TOTAL				Theory: 22hours Practical: 06 hours		24	480	320	800	26

Professional Elective-2		Open Elective - 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

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 • The candidate has no pre-requisite knowledge.
 • The candidate has studied similar content course during previous semesters.
 • 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.

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2017 - 2018

B.E: Information Science and Engineering

VII SEMESTER

Sl. No	Course Code	Title	Teaching Department	Teaching Hours/Week		Duration in hours	Examination			Credits
				Theory	Practical/ Drawing		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	17CS1S74x	Professional Elective 3	CS/IS	03		03	60	40	100	3
5	17CS1S75x	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 Instruction 02-Hour Practical		03	60	40	100	2
8	17ISP78	Project Work Phase-I + Project work Seminar	CS/IS		03	--	--	100	100	2
TOTAL				Theory: 18 hours Practical and Project: 09 hours		21	420	380	800	24

Professional 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.

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Scheme of Teaching and Examination 2017-2018
Choice Based Credit System (CBCS)

B.E: Information Science and Engineering

VIII SEMESTER

Sl. No	Course Code	Title	Teaching Department	Teaching Hours/Week		Duration in hours	Examination			Credits
				Theory	Practical/ Drawing		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	Industry Oriented		3	30	30	100	2
5	17ISP85	Project Work-II	CS/IS	-	6	3	100	100	200	6
6	17ISS86	Seminar	CS/IS	-	4	-	-	100	100	1
TOTAL				Theory: 11 hours Project and Seminar: 10 hours		15	330	370	700	20

Professional 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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