

Syllabus Structure

Second Year – Department of Information Technology

To be followed from Academic Year 2018-19

SEMESTER – III

Course Code	Course Title	Lectures (L)	Tutorials (T)	Practical (P)	Credits	
					Th	Pr
IT201	Digital Systems Design	03	--	--	04	--
IT203	Data Structures	03	--	02	04	01
IT205	Object Oriented Programming	03	--	02	03	01
IT207	Discrete Mathematics	03	--	02	03	01
IT209	Electronic Devices and Circuits	03	--	--	03	--
IT211	Computer Laboratory - I (C Prog.)	--	--	02	--	01
IT213	Analog & Digital Lab	--	--	02	--	01
HS221	Human Values and Professional Ethics	02	--	--	02	--
	Total	17	--	10	19	05

SEMESTER -IV

Course Code	Course Title	Lectures (L)	Tutorials (T)	Practical (P)	Credits	
					Th	Pr
MA202	Differential Equations	04	--	--	04	--
IT204	Computer Organization	03	--	--	04	--
IT206	Microprocessors and Interfacing	03	--	02	04	01
IT208	Java Programming	03	--	02	03	01
IT210	Computer Laboratory - II	--	--	02	--	01
IT212	Elective – I	03	--	--	03	--
HS222	Professional Communication	02	--	02	02	01
	Total	18	--	08	20	04

Elective – I

IT212 A: Elements of Indian History for Engineers

IT212 B: Law for Engineers

IT212 C: Economics for Engineers

IT212 D: Indian Constitution

IT212 E: Cyber Law

Head, Dept. of IT

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Third Year – Department of Information Technology

To be followed from Academic Year 2018-19

SEMESTER – V

Course Code	Course Title	Lectures (L)	Tutorials (T)	Practical (P)	Credits	
					Th	Pr
IT301	Theory of Computation	03	--	--	04	--
IT303	Software Engineering	03	--	02	03	01
IT305	Operating Systems	03	--	02	03	01
IT307	Data Base Management System	03	--	02	04	01
MA301	Elective – II (M IV)	04	--	--	04	--
IT311	CL-III (PHP+ MySQL)	02	--	02	--	01
IT313	Seminar - I	--	--	02	--	01
	Total	18	--	10	18	05

Elective – II

MA301A: Probability and Statistics

MA301B: Integral Transform

MA301C: Complex Analysis

MA301D: Numerical Methods

SEMESTER -VI

Course Code	Course Title	Lectures (L)	Tutorials (T)	Practical (P)	Credits	
					Th	Pr
IT302	Data Mining & Data Warehousing	03	--	--	04	--
IT304	Design & Analysis of Algorithms	03	--	02	04	01
IT306	Computer Networks	03	--	02	03	01
IT308	Software Testing	03	--	02	03	01
IT310	Compiler Construction	03	--	02	04	01
IT312	Computer Laboratory-IV (Python Programming & Data Mining Tools like WEKA, STATISTICA, etc. – Data Scientist Track)	02	--	02	--	01
IT314	Seminar - II	--	--	02	--	01
	Total	17	--	12	18	06

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Syllabus Structure

Final Year – Department of Information Technology

Academic Year 2018-19

SEMESTER – VII

Course Code	Course Title	Lectures (L)	Tutorials (T)	Practical (P)	Credits	
					Th	Pr
IT401	Cryptography and Network Security	03	--	02	03	01
IT403	Mobile & Wireless Communication	03	--	02	03	01
IT405	E-Commerce	03	--	02	03	01
IT407	Introduction to Data Science	03	--	02	03	01
IT409	Elective – III	03	--	--	04	--
IT411	Computer Laboratory - V (Adv. JAVA /Mobile Apps development)	02	--	02	--	01
IT413	Project -I	--	--	06	--	03
		17	--	16	16	08

Elective – III

- IT409-A: Distributed Systems
- IT409-B: Human Computer Interaction
- IT409-C: Multimedia Systems

SEMESTER -VIII

Course Code	Course Title	Lectures (L)	Tutorials (T)	Practical (P)	Credits	
					Th	Pr
IT402	Elective – IV	03	--	--	04	--
IT 404	Elective – V	03	--	--	04	--
IT406	Project – II	--	--	16	--	08
	Total	06	--	16	08	08

Elective – IV

- IT402-A: Cloud Computing
- IT402-B: IOT
- IT402-C: Optimization Techniques
- IT402-D: Big Data Analytics

Elective – V

- IT404-A: Pattern Recognition
- IT404-B: Deep Learning
- IT404-C: Embedded Systems

NOTE: Students can go for Internship/Industry projects in second semester of final year. All those students doing internship/ industry project are required to complete 8 credits of Electives. They can either prepare on their own or can seek online guidance from the concern faculty.

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