

**B.Tech (IT): 2015-19**

<b>Semester 1</b>					
<b>Code</b>	<b>Title</b>	<b>Type</b>	<b>Theory</b>	<b>Lab/</b>	<b>Prerequisites</b>
EEDC132C	Electronics Devices and Circuits	C	3	2	-
IIPG132C	Introduction to Programming	C	3	2	-
SCDE130C	Calculus and Differential Equation	C	3	0	-
SEGP132C	Engineering Physics	C	3	2	-
ECAS130C	Circuit Analysis and Synthesis	C	3	0	-
IITC102C	Introduction to Computers	C	0	2	-
MPCN102C	Professional Communication	C	0	2	-
<b>Semester 2</b>					
SPAS230C	Probability and Statistics	C	3	0	SCDE130C
IDMA230C	Discrete Mathematics	C	3	0	-
ICOA230C	Computer Organization and Architecture	C	3	0	IITC102C
IDST232C	Data Structures	C	3	2	IIPG132C
EDES232C	Digital Electronics	C	3	2	-
MPOM230C	Principles of Management	C	3	0	-
<b>Semester 3</b>					
SMAT330C	Mathematics - 2	C	3	0	SCDE130C
IOPS332C	Operating System	C	3	2	ICOA230C
ITOC330C	Theory of Computation	C	3	0	IDMA230C
IOOM332C	Object Oriented Methodologies	C	3	2	IDST232C
EMIP332C	Microprocessors	C	3	2	EDES232C
<b>Semester 4</b>					
SMAT430C	Mathematics - 3	C	3	0	SMAT330C
IDAA432C	Design and Analysis of Algorithms	C	3	2	IDST232C IDMA230C
IPPL430C	Principles of Programming Languages	C	3	0	IDST232C
IDBM432C	Database Management Systems	C	3	2	IDST232C IDMA230C
EPCO432C	Principles of Communication	C	3	2	-


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Semester 5					
ICNE532C	Computer Networks	C	3	2	EPCO432C
ISOE532C	Software Engineering	C	3	2	IOOM332C
IAIN532C	Artificial Intelligence	C	3	2	IDAA432C
IGVC532C	Graphics and Visual Computing	C	3	2	IDST232C
MPOE530C	Principles of Economics	C	3	0	-
IPRJ505P	Mini Project	P	0	5	-
Semester 6					
ICOD632C	Compiler Design	C	3	2	ITOC330C IITG132C
IIVP632C	Image and Video Processing	C	3	2	IITG132C
IDMW632C	Data Mining and Warehousing	C	3	2	IDBM432C
	Elective - 1	E	3	0	-
	Elective - 2	E	3	0	-
IPRJ605P	Mini Project	P	0	5	-
Semester 7					
ISIM732C	System Modeling and Simulation	C	3	2	SPAS230C
MORB720C	Organizational Behaviour	C	2	0	-
	Elective - 3	E	3	0	-
	Elective - 4	E	3	0	-
IPRJ708P	Mini Project	P	0	8	-
Semester 8					
IPHS820C	Philosophy of Science	C	2	0	-
	Elective - 5 <sup>2</sup>	E	3	0	-
IPRJ814P	Major Project	P	0	14	IPRJ505P IPRJ605P IPRJ708P
ELECTIVES					
IOPT630E	Optimization Techniques	E	3	0	-
ECSE630E	Control System Engineering	E	3	0	-
INLP630E	Natural Language Processing	E	3	0	-
ISCO630E	Soft Computing	E	3	0	-
IMCL630E	Machine Learning - Tools and Techniques	E	3	0	-

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IRIA630E	Robotics and Industrial Automation	E	3	0	-
INSE630E	Network Security	E	3	0	-
ICVI630E	Computer Vision	E	3	0	-
IIMP630E	Image Processing	E	3	0	-
IPAC630E	Parallel Computing	E	3	0	-
IWSN630E	Wireless Sensor Networks	E	3	0	-
IIRS730E	Information Retrieval System	E	3	0	-
ICIS730E	Cryptography and Information Security	E	3	0	-
IMDM730E	Mobile Data Management	E	3	0	-
ISLT730E	Speech and Language Technologies	E	3	0	-
ERSC730E	Radar and Satellite Communication	E	3	0	-
IHUR730E	Humanoid Robotics	E	3	0	-
ICCS730E	Cognition and Cognitive Process Modeling	E	3	0	-
IEC0730E	Data Compression	E	3	0	-
IMOC730E	Mobile Computing	E	3	0	-
IEMB730E	Modeling Design and Analysis of Embedded System	E	3	0	-
IIRP730E	Internet Protocols	E	3	0	-
IIVR730E	Virtual Reality	E	3	0	-
SBNF730E	Bioinformatics	E	3	0	-
IMSE730E	Mobile Software Engineering	E	3	0	-

**Note:** The above details are compiled based on the information available on AAA section <https://aaa.iiita.ac.in/pdf/Curriculum%20Brochure.pdf> of the institute home page site.

  
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