# 1<sup>st</sup> Academic Year

### 1<sup>st</sup> Semester

Course Code	Course Title	Weekly Lecture Hours	Weekly Practice Hours		No.of Credits	Course Code	Prerequisites for Admission	Course Code	Corequisite Courses
10003	Linear Algebra 1	3	2		4.00			93035	Introduction to Programming
10124	Introduction to Calculus	3	2		4.00				
10035	Logic Design and Digital System	2	1		2.50				
10028	Introduction to Computer Programming	3	2	2	5.00				
10078	Discrete Mathematics 1	2	1		2.50				
Total		13	8	2	18.00				

### 2<sup>nd</sup> Semester

Course Code	Course Title	Weekly Lecture Hours	Weekly Practice Hours	Weekly Laborator y Hours	No.of Credits	Course Code	Prerequisites for Admission	Course Code	Corequisite Courses
10004	Linear Algebra 2	3	2		4.00	10003	Linear Algebra 1		
10017	Differential and Integral Calculus 1	4	2		5.00	10088	Introduction to Calculus and Analytic Geometry		
10031	Data Structures	3	1		3.50	10028	Introduction to Computer Programming		
10030	Computer Structure and Architecture	3	1		2.50	10035	Logic Design and Digital System		
10059	Object Oriented Software Development	2	2		3.00	10028	Introduction to Computer Programming		
10074	Discrete Mathematics 2	2	1		2.50	10078	Discrete Mathematics 1		
Total		17	9	0	20.50				

# 2<sup>nd</sup> Academic Year

### 3<sup>rd</sup> Semester

Course Code	Course Title	Weekly Lecture Hours	Weekly Practice Hours	Weekly Laborator y Hours	No.of Credits	Course Code	Prerequisites for Admission	Course Code	Corequisite Courses
10018	Differential and Integral Calculus 2	4	2		5.00	10017	Differential and Integral Calculus 1		
96007	Physics 1 - Mechanics	3	1		3.50	10017	Differential and Integral Calculus 1	10018	Differential and Integral Calculus 2
10007	Algorithms 1	3	1		3.50	10074	Discrete Mathematics 2		
10007	Algoritims					10031	Data Structures		
10019	Mathematical Logic	3	1		3.50	10074	Discrete Mathematics 2		
10064	Programming in C and C++	3	2		4.00	10059	Object Oriented Software Development	10031	Data Structures
10034	Microprocessors	2		3	3.50	10030	Computer Structure and Architecture		
Total		18	7	3	23.00				

#### 4<sup>th</sup> Semester

4 Jennest	···								
Course Code	Course Title	Weekly Lecture Hours	Weekly Practice Hours	Weekly Laborator y Hours	No.of Credits	Course Code	Prerequisites for Admission	Course Code	Corequisite Courses
10015 Probability and Statistics 1	2	1		2.50	10074	Discrete Mathematics 2	10018	Differential and Integral Calculus 2	
10015	Frobability and Statistics 1		'		2.50	10017	Differential and Integral Calculus 1	10016	Differential and Integral Calculus 2
10072	Physics II - Electricity and magnetism	3	1		3.50	96007	Physics 1 - Mechanics	10018	Differential and Integral Calculus 2
10008	10008 Algorithms 2	3	1		3.50	10007	Algorithms 1		
10008		3			3.30	10004	Linear Algebra 2		
10036	Databases	3	1		3.50	10019	Mathematical Logic		
10030	Databases		'			10031	Data Structures		
						10064	Programming in C and C++		
10040	Themes in Operating Systems	3	3		4.50	10031	Data Structures		
						10030	Computer Structure and Architecture		
10077	Introduction to Scientific Computing	3	1		3.50	10018	Differential and Integral Calculus 2		
10077	introduction to scientific computing	3			3.50	10004	Linear Algebra 2		
Total	_	17	8	0	21.00		_		

### 3<sup>rd</sup> Academic Year

# 5<sup>th</sup> Semester

Course Code	Course Title	Weekly Lecture Hours	Weekly Practice Hours	Weekly Laborator y Hours	No.of Credits	Course Code	Prerequisites for Admission	Course Code	Corequisite Courses
10016	Probability and Statistics 2	2	1		2.50	10015	Probability and Statistics 1		
10046	Engineering Mathematics	3	1		3.50	10018	Differential and Integral Calculus 2	10004	Linear Algebra 2
10106	10106 Software Project management	3			3.00	10040	Themes in Operating Systems		
10100	Soliware Project management	3			3.00	10064	Programming in C and C++		
10091	Programming over the Internet	2	1		2.50	10036	Databases		
10091	r rogramming over the internet	2				10064	Programming in C and C++		
10061	Computer Communication	3	1		3.50	10040	Themes in Operating Systems		
10054	Object Oriented Design	3	1		3.50	10064	Programming in C and C++		
10039	Communication Laboratory	2		1	2.50	10040	Themes in Operating Systems	10061	Computer Communication
10087	Automata and Formal Languages	2	1		2.50	10007	Algorithms 1		
10067		2			2.50	10019	Mathematical Logic		
Total		20	6	1	23.50				

### 6<sup>th</sup> Semester

Course Code	Course Title	Weekly Lecture Hours	Weekly Practice Hours	Weekly Laborator y Hours	No.of Credits	Course Code	Prerequisites for Admission	Course Code	Corequisite Courses
						10072	Physics II - Electricity and magnetism		
10108	Signal Processing	3	2		4.00	10004	Linear Algebra 2		
						10046	Engineering Mathematics		
10014	Software Engineering	3	2		4.00	10091	Programming over the Internet		
10014		J				10106	Software Project management		
						10008	Algorithms 2		
10111	software systems security	3			3.00	10039	Communication Laboratory		
						10061	Computer Communication		
10115	Software Engineering for Community	2			2.00	10014	Software Engineering		
10076	Computability and Complexity	2	1		2.50	10087	Automata and Formal Languages		
	Elective courses	6			6.00				
Total		19	5	0	21.50				

### 4<sup>th</sup> Year

### 7<sup>th</sup> Semester

Course Code	Course Title	Weekly Lecture Hours	Weekly Practice Hours	Weekly Laborator y Hours	No.of Credits	Course Code	Prerequisites for Admission	Course Code	Corequisite Courses
96024	Introduction to Economics	2	1		2.50				
	Elective courses	7			7.00				
10051	Final Project		10		5.00				
Total		9	11	0	14.50				

#### 8th Semester

Course Code	Course Title	Weekly Lecture Hours	Weekly Practice Hours	Weekly Laborator y Hours	No.of Credits	Course Code	Prerequisites for Admission	Course Code	Corequisite Courses
10099	Enterprises Management	3			3.00				
	Elective courses	6			6.00				
10051	Final Project		10		5.00				
Total		9	10	0	14.00				

#### Elective courses

Course Code	Course Title	Weekly Lecture Hours	Weekly Practice Hours	Weekly Laborator y Hours	No.of Credits	Course Code	Prerequisites for Admission	Course Code	Corequisite Courses
10107	Compilers Structure	3	1		3.50	10008	Algorithms 2		
10101	Complicio Cirdotale	Ů			0.00	10087	Automata and Formal Languages		
10041	Distributed Systems	3	1		3.50	10061	Computer Communication		
10050	Image Processing	3	1		3.50	10108	Signal Processing		
10513	usability and user computer interface	3			3.00			10051	Final Project
10010	Artificial Intelligence	3			3.00	10007	Algorithms 1		
10117	Managing Software Product development - from POC to product	3			3	10014	Software Engineering		
10094	Sofware Testing	3			3.00	10091	Programming over the Internet		
10110	linformation Retrieval	3			3.00	10014	Software Engineering		
10019	Pig Data Storage Systems					10040	Themes in Operating Systems		
10019	Big Data Storage Systems					10061	Computer Communication		
10093	Mobile Systems Programming	2		2	3.00	10039	Communication Laboratory		
10033	Wobile Systems i Togramming	2			3.00	10014	Software Engineering		
10097	Advanced Topics in Computer Systems	3			3.00	10039	Communication Laboratory		
10031	Advanced Topics in Computer Systems	3			3.00	10061	Computer Communication		
10101	Cloud Computing Technologies	3			3.00	10040	Themes in Operating Systems		
10101	Cloud Computing Technologies	3			3.00	10041	Distributed Systems		
10122	Deep Learning	3			3.00			10050	Image Processing
10122	Deep Learning	3			3.00			10023	Machine Learning
						10016	Probability and Statistics 2		
10123	Machine Learning	3				10018	Differential and Integral Calculus 2		
						10004	Linear Algebra 2		