

## Information and Communication Technology (ICT)

### SEMESTER I

Sr no	category	course title	Hours per week			Total Contact	Credits
			lecture	tutorial	practical		
1	Basic Science Course	Mathematics –I	3	2	0	5	5
2	Basic Science Course	Physics / Chemistry	2	0	2	4	3
3	Engg Science Course	Basic Electrical Engineering	3	0	2	5	4
4	Engg Science Course	Engineering Graphics & Design	2	0	4	6	4
5	Engg Science Course	Basic Mechanical Engineering	3	0	2	5	4
						<b>25</b>	<b>20</b>

### SEMESTER II

Sr no	category	course title	Hours per week			Total Contact	Credits
			lecture	tutorial	practical		
1	Basic Science Course	Mathematics –2	3	2	0	5	5
2	Engg Science Course	Programming for Problem Solving	3	0	2	5	4
3	Engg Science Course	Workshop/Manufacturing Practices	0	0	4	4	2
4	Engg Science Course	Basic Electronics	3	0	2	5	4
5	Humanities and Social Science	English	2	0	2	4	3
6	Mandatory course	Environmental Sciences	2	2	0	4	0
						<b>27</b>	<b>18</b>

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### SEMESTER III

Sr no	category	course title	Hours per week			total contact hours	Credits
			lecture	tutorial	practical		
1	Humanities and Social Science	Effective Technical Communication	2	0	2	4	3
2	Basic Science	Digital Electronics	4	0	2	6	5
3	Engineering Science	Probability, Statistics and Numerical Methods	3	1	0	4	4
4	Professional Core Course	Data Structures	3	0	4	7	5
5	Professional Core Course	Database Management System	4	0	2	6	5
6	Mandatory Subject	Indian Constitution	2	0	0	2	0
						<b>29</b>	<b>22</b>

### SEMESTER IV

Sr no	category	course title	Hours per week			total contact	Credits
			lecture	tutorial	practical		
1	Humanities and Social Science	Engineering Economics	3	0	0	3	3
2	Basic Science	Discrete Mathematics	3	2	0	5	5
3	Professional Core Course	Operating System	4	0	2	6	5
4	Professional Core Course	Data Communication & Computer Networks	4	0	2	6	5
5	Professional Core Course	Computer Organization & Architecture	3	0	2	5	4
6	Mandatory Subject	Essence of Indian Traditional Knowledge	2	0	0	2	0
						<b>27</b>	<b>22</b>

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### SEMESTER V

Sr no	category	course title	Hours per week			total contact	Credits
			lecture	tutorial	practical		
1	Humanities and Social Science	Operation Research	3	0	0	3	3
2	Professional Core Course	Analysis and Desing of Algorithms	4	0	2	6	5
3	Professional Core Course	Object Oriented Programming with Java	4	0	2	6	5
4	Professional Elective Course	1. Adavanced Network Protocols 2. Signal and Systems 3. Formal Language and Automata Theory	3	0	2	5	4
5	Open elective	1. Cyber Security 2. Python Programming	3	0	2	5	4
6	Design Engineering	Design Engineering	0	0	2	2	1
						<b>27</b>	<b>22</b>

### SEMESTER VI

Sr no	category	course title	Hours per week			total contact	Credits
			lecture	tutorial	practical		
1	Professional Core Course	Analog and Digital Communication	4	0	2	6	5
2	Professional Core Course	Microprocessor and Microcontroller	4	0	2	6	5
3	Professional Elective Course	1. Optical Communication 2. Engineering Electromagnetics and Wave Propagation 3. Data Mining & Business Intelligence	3	0	2	5	4
4	Professional Elective Course	1. Artificial Intelligence 2. Distributed Computing 3. Digital Signal Processing	3	0	2	5	4
5	Open Elective	1. IT Infrastructure & Utilities 2. Cyber Crime and Mitigation	3	0	0	3	3
						<b>25</b>	<b>21</b>

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### SEMESTER VII

Sr no	category	course title	Hours per week			total contact	Credits
			lecture	tutorial	practical		
1	Professional Core Course		3	0	2	5	4
2	Professional Core Course		3	0	2	5	4
3	Professional Elective Course	1. 2. 3.	3	0	2	5	4
4	Professional Elective Course	1. 2. 3.	3	0	2	5	4
5	Professional Elective Course	1. 2. 3.	3	0	2	5	4
6	Open Elective	1. 2.	3	0	0	3	3
						<b>28</b>	<b>23</b>

### SEMESTER VIII

			lecture	tutorial	practical	Hours	Credits
1	Project work, seminar and internship in industry	Project	0	0	28	28	14
						<b>28</b>	<b>14</b>