

# **SCHOOL OF INFORMATION AND COMMUNICATION TECHNOLOGY**

**(Department of Electronics and Communication Engineering)**

## **COURSE STRUCTURE**

**2 – Years M. Tech. in ICT**

**(Specialization in Wireless Communication and Networks)**



**GAUTAM BUDDHA UNIVERSITY, GREATER NOIDA**

**2015-2017**

**2- Year M.Tech. in ICT (Specialization in WCN) (2015-2017)**  
**SEMESTER- I**

Sr.No	Course Code	Courses	L-T-P		Credits
1	EC535	Digital IC Design	3-1-0	C1	4
2	CS523	Advanced Computer Architecture	3-1-0	C2	4
3	EC531	Advanced Digital Communication System	3-1-0	C3	4
4	CS527	Research Techniques in ICT	3-1-0	SEC1	4
5		Open Elective-1	3-0-0	OE1	3
6	EC585	Digital IC Design Lab	0-0-3	C4	2
7	EC581	Advanced Digital Communication Lab	0-0-3	C5	2
8	GP	General Proficiency		Non Credit	
		<b>Total Credits</b>			<b>23</b>
		<b>Total Contact Hours</b>	<b>15-4-6</b>		<b>25</b>

**1. Open Electives-I, Electives from other school**

**SEMESTER- II**

Sr. No.	Course Code	Courses	L-T-P		Credits
1		Generic Elective	3-1-0	GE1	4
2	EC540	Wireless Networks	3-0-0	C6	3
3	EC534	Wireless System Design	3-0-0	C7	3
4	EC546	Ad-hoc Wireless Networks	3-0-0	C8	3
5		Elective-1	3-0-0	DSE1	3
6	EC584	Design Lab-I	0-0-3	C9	2
7	EC592	Major Project	0-0-10	DP1	5
8	GP	General Proficiency	---	Non Credit	
		<b>Total</b>	<b>15-1-13</b>		<b>23</b>
		<b>Total Contact Hours</b>			<b>29</b>

**Elective: 1**

Sr.No	Course Code	Courses
1	EC532	Advanced Communication Networks
2	EC542	Advanced Computer Networks
3	EC544	Advanced RF Engineering
4	EC550	Advanced Microwave Communication
5	EC562	Optical Networks

**Generic Elective (GE1)**

1. MA 402 Modeling and Simulation
2. MA416 Probability and Stochastic Process

**2- Year M.Tech. in ICT (Specialization in WCN) (2015-2017)****SEMESTER – III**

Sr. No.	Course Code	Courses	L-T-P		Credits
1	EC631	Security in Wireless Networks	3-0-0	C10	3
2	EC635	Mobile Computing	3-0-0	C11	3
3		Elective-2	3-0-0	DSE 2	3
4		Elective-3	3-0-0	DSE 3	3
5	EC681	Design Lab-II	0-0-3	C12	2
6	EC691	Dissertation Part-I	0-0-14	DP2	7
7	GP	General Proficiency	---	Non Credit	
		<b>Total</b>			<b>21</b>
		Total Contact Hours	<b>12-0-17</b>	29	

**Electives: 2&3**

Sr. No.	Course Code	Courses
1	EC639	Discrete Signal Transformations
2	EC641	Network Reliability
3	EC643	Smart Antenna Systems
4	EC645	Broadband Wireless Networks
5	EC647	Sensor Networks
6	EC651	Multicast Communication

**SEMESTER-IV**

Sr. No	Course Code	Courses	L-T-P		Credits
1	EC690	Dissertation Part-II	---	DP3	23
2	GP	General Proficiency		Non Credit	
		<b>Total</b>	<b>---</b>		<b>23</b>

**Grand Total Credits = 90**