

## Proposed Syllabus for Electronics & Communication Engineering Department

### 2nd Year 3rd Semester

Theory									
SL NO	Paper Code	Paper Name	L	T	P	Total Contact	Credits	Theory	Practical/Sessional
	BSM301	Mathematics & Statistics III	3	0	0	3	3	100	0
	PCC-EC301	Electronic Devices	3	0	0	3	3	100	0
	PCC-EC302	Analog Electronic Circuits	3	0	0	3	3	100	0
	PCC-EC303	Network Theory	3	1	0	4	3	100	0
	PCC-EC304	Signal & System	3	0	0	3	3	100	0
	HUSS-ESP-301	Essential Studies for Professionals III	3	0	0	3	3	100	0
	MC301	Biology for Engineers	2	0	0	2	1	100	0
<b>Total of Theory</b>			<b>20</b>	<b>1</b>	<b>0</b>	<b>21</b>	<b>19</b>	<b>700</b>	<b>0</b>
Practical/Sessional									
SL NO	Paper Code	Paper Name	L	T	P	Total Contact	Credits	Theory	Practical/Sessional
	PCC-EC391	Electronic Devices & Analog Circuits Lab	0	0	3	3	1.5	0	100
	PCC-EC394	Signals & Systems Lab	0	0	2	2	1	0	100
	OEC-EC381	Data Structure and Algorithm (Sessional)	1	0	3	4	2	0	100
	HUSS-SDP-381	Skill Development for Professionals III	0	0	2	2	1	0	100
	ECP-381	PROJECT I	0	0	2	2	1	0	100
<b>Total of Practical</b>			<b>1</b>	<b>0</b>	<b>12</b>	<b>13</b>	<b>6.5</b>		<b>600</b>
<b>Total of Semester:</b>			<b>20</b>	<b>1</b>	<b>12</b>	<b>32</b>	<b>25.5</b>	<b>1300</b>	

## 2nd Year 4th Semester

Theory									
SL NO	Paper Code	Paper Name	L	T	P	Total Contact	Credits	Theory	Practical/Sessional
	PCC-EC401	Microprocessors & Microcontrollers	3	0	0	3	3	100	0
	PCC-EC402	Digital Electronic Circuits	3	0	0	3	3	100	0
	PCC-EC403	EM Theory & Transmission line	3	1	0	4	3	100	0
	PCC-EC404	Advanced oops using C++/JAVA	2	0	0	2	2	100	0
	HUSS-ESP-401	Essential Studies for Professionals IV	3	0	0	3	3	100	0
	BSM401	Mathematics & Statistics IV	3	0	0	3	3	100	0
	MC401	Environmental Science (non-credited)	0	0	0	0	0	100	0
<b>Total of Theory</b>			<b>17</b>	<b>1</b>	<b>0</b>	<b>18</b>	<b>17</b>	<b>700</b>	<b>0</b>
Practical/Sessional									
SL NO	Paper Code	Paper Name	L	T	P	Total Contact	Credits	Theory	Practical/Sessional
	PCC-EC492	Digital Electronic Circuits Lab	0	0	4	4	2	0	100
	PCC-EC491	Microprocessors & Microcontrollers Lab	1	0	2	3	1	0	100
	PCC-EC494	Advanced oops using C++/JAVA	0	0	2	2	1	0	100
	PCC-EC493	EM Theory & Transmission line lab	0	0	2	2	1	0	100
	HUSS-SDP-481	Skill Development for Professionals IV	0	0	2	2	1	0	100
	OEC-EC481	Design & Analysis Of Algorithm theory & LAB (Sessional)	1	0	2	3	2	0	100
	ECP-481	PROJECT	0	0	2	2	1	0	100
<b>Total of Practical</b>			<b>2</b>	<b>0</b>	<b>16</b>	<b>18</b>	<b>9</b>	<b>0</b>	<b>700</b>
<b>Total of Semester:</b>			<b>19</b>	<b>1</b>	<b>16</b>	<b>34</b>	<b>26</b>	<b>1400</b>	

### 3rd Year 5th Semester

3rd Year 5th Semester									
Theory									
SL NO	Paper Code	Paper Name	L	T	P	Total Contact	Credits	Theory	Practical/Sessional
	PCC-EC-501	Analog and Digital Communication	3	0	0	3	3	100	0
	PCC-ECC502	Microelectronics & VLSI Design	3	0	0	3	3	100	0
	PCC-EC503	Control System	3	1	0	4	3	100	0
	PEC-EC501	Elective 1 (Departmental Elective) (Instrumentation & Sensors, Optoelectronics, Antenna & Wave Propagation, CA )	2	0	0	2	2	100	0
	OEC-EC501	Elective 2 (Open Elective) (Sessional) ( 3D Printing & Design, Digital Image Processing & Computer Vision)	2	0	0	2	2	100	0
	MC501	Constitution of India	0	0	0	0	0	100	0
	HUSS-ESP-501	Essentials studies for Professionals V	3	0	0	3	3	100	0
<b>Total of Theory</b>			<b>16</b>	<b>1</b>	<b>0</b>	<b>17</b>	<b>16</b>	<b>700</b>	<b>0</b>
Practical/Sessional									
SL NO	Paper Code	Paper Name	L	T	P	Total Contact	Credits	Theory	Practical/Sessional
	PCC-ECC591	Analog and Digital Communication lab	1	0	3	4	1.5	0	100
	PCC-EC592	Microelectronics & VLSI Design Lab	0	0	2	2	1	0	100
	PCC-EC593	Control System Lab	0	0	2	2	1	0	100
	ECP-581	PROJECT	0	0	2	2	1	0	100
	OEC-EC581	Machine Learning Theory & Lab (Sessional)	1	0	3	4	2	0	100
	HUSS-SDP-581	Skill Development for Professionals V	0	0	2	2	1	0	100
<b>Total of Practical</b>			<b>2</b>	<b>0</b>	<b>14</b>	<b>16</b>	<b>7.5</b>	<b>0</b>	<b>600</b>
<b>Total of Semester:</b>			<b>18</b>	<b>1</b>	<b>14</b>	<b>33</b>	<b>23.5</b>	<b>1300</b>	

### 3rd Year 6th Semester

Theory									
SL NO	Paper Code	Paper Name	L	T	P	Total Contact	Credits	Theory	Practical/Sessional
	HUSS-EC601	Principles of Management	2	0	0	2	2	100	0
	PCC-EC601	Digital Signal Processing	3	0	0	3	3	100	0
	PCC-EC602	Database Management Systems	2	1	0	3	2	100	0
	PCC-EC603	Computer Network	2	0	0	2	2	100	0
	PEC-EC601	Elective 1 (Dept. Elective) (Renewable Energy, Information Theory & Coding, Power Electronics)	2	0	0	2	2	100	0
	OEC-EC601	Elective 2 (Open Elective) (Virtual Reality, Internet Of Things, Cloud Computing, Software Engineering, Robotics)	2	0	0	2	2	100	0
	HUSS-ESP-601	Essential Studies for Professionals VI	3	0	0	3	3	100	
<b>Total of Theory</b>			<b>16</b>	<b>1</b>	<b>0</b>	<b>17</b>	<b>16</b>	<b>700</b>	<b>0</b>
Practical/Sessional									
	PCC-EC692	Database Management Systems Lab	0	0	2	2	1	0	100
	ECP-681	PROJECT	0	0	4	4	2	0	100
	HUSS-SDP-681	Skill Development for Professionals VI	0	0	2	2	1	0	100
	PCC-EC691	Digital Signal Processing lab	0	0	2	2	1	0	100
<b>Total of Practical</b>			<b>0</b>	<b>0</b>	<b>10</b>	<b>10</b>	<b>5</b>	<b>0</b>	<b>400</b>
<b>Total of Semester:</b>			<b>16</b>	<b>1</b>	<b>10</b>	<b>27</b>	<b>21</b>	<b>1100</b>	

### 4th Year 7th Semester

4th Year 7th Semester									
Theory									
SL NO	Paper Code	Paper Name	L	T	P	Total Contact Hrs	Credits	Theory	Practical/Sessional
	HUSS-EC701	Financial Accounting & Economics	2	1	0	3	2	100	0
	PCC-EC701	Microwave Engineering	3	0	0	3	3	100	0
	PEC-EC701	Elective 1 (Dept. Elective) (Introduction to Nanoscience & Nanotechnology, Satellite Communication, Quantum Computing)	2	0	0	2	2	100	0
	OEC-EC701	Elective 2 (Dept. Elective) (Mobile Communication and Networks, Fiber Optic Communications)	2	0	0	2	2	100	0
	HUSS-ESP-701	Essential Studies for Professionals VII	3	0	0	3	3	100	0
<b>Total of Theory</b>			<b>12</b>	<b>1</b>	<b>0</b>	<b>13</b>	<b>12</b>	<b>500</b>	<b>0</b>
Practical/Sessional									
	PCC-EC791	Microwave Engineering Lab	0	0	4	4	2	0	100
	ECP-781	Industrial Training	0	0	0	0	3	0	100
	HUSS-SDP-781	Skill Development for Professionals VII	0	0	2	2	1	0	100
	ECP-782	Project	0	0	6	6	3	0	100
<b>Total of Practical</b>			<b>0</b>	<b>0</b>	<b>12</b>	<b>12</b>	<b>9</b>	<b>0</b>	<b>400</b>
<b>Total of Semester:</b>			<b>12</b>	<b>1</b>	<b>12</b>	<b>25</b>	<b>21</b>	<b>900</b>	

4th Year 8th Semester									
Theory									
SL NO	Paper Code	Paper Name	L	T	P	Total Contact	Credits	Theory	Practical/Sessional
	OEC-EC801	Open Elective 1 (Material Science, Mixed Signal Design, Deep Learning)	3	0	0	3	3	100	0
	OEC-EC802	Open Elective 2 ( Bio-Medical Electronics, Embedded systems, Introduction to Data Science Using Python)	3	0	0	3	3	100	0
	HUSS-ESP-801	Essential Studies for Professionals VIII	3	0	0	3	3	100	0
<b>Total of Theory</b>			<b>9</b>	<b>0</b>	<b>0</b>	<b>9</b>	<b>9</b>	<b>300</b>	<b>0</b>
Practical/Sessional									
	ECP-881	Project	0	0	8	8	4	0	100
	HUSS-SDP-881	Skill Development for Professionals VIII	0	0	2	2	1	0	100
	ECP-GV-882	Grand Viva	0	0	8	8	4	0	100
<b>Total of Practical</b>			<b>0</b>	<b>0</b>	<b>18</b>	<b>18</b>	<b>9</b>	<b>0</b>	<b>300</b>
<b>Total of Semester:</b>			<b>0</b>	<b>0</b>	<b>18</b>	<b>27</b>	<b>18</b>	<b>600</b>	