

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM**  
**CHOICE BASED CREDIT SYSTEM (CBCS)**  
**SCHEME OF TEACHING AND EXAMINATION 2015-2016**  
**B.E.: Electronics & Communication Engineering**

**V SEMESTER**

Sl. No	Subject Code	Title	Teaching Hours /Week		Examination				Credits
			Theory	Practical/ Drawing	Duration	Theory/ Practical Marks	I.A. Marks	Total Marks	
1	15XX51	Management and Entrepreneurship /Project Management & Economics	04		03	80	20	100	4
2	15XX52	Digital Signal Processing	04		03	80	20	100	4
3	15XX53	Microcontroller (dealing MSP 430)	04		03	80	20	100	4
4	15XX54	Information Theory & Coding	04		03	80	20	100	4
5	15XX55X	Professional Elective-1	03		03	80	20	100	3
6	15XX56X	Open Elective-1	03		03	80	20	100	3
7	15XXL57	DSP lab		1I+2P	03	80	20	100	2
8	15XXL58	Microcontroller lab		1I+2P	03	80	20	100	2
<b>TOTAL</b>			<b>22</b>	<b>06</b>	<b>24</b>	<b>640</b>	<b>160</b>	<b>800</b>	<b>26</b>

Professional Elective		Open Elective	
15XX551	Microelectronics	15XX561	Virtual Instrumentation
15XX552	Artificial Neural Networks	15XX562	Robotics
15XX553	Computer Organization	15XX563	Automotive Electronics
15XX554	Operating System	15XX562	Software Engineering
15XX555	Engineering Materials	15XX564	Programming in C++
		15XX565	Laser Physics and Non-linear Optics

**1. Professional Elective:** Elective relevant to chosen specialization/ branch

**2. Open Elective:** Electives from other technical and/or emerging subject areas. There could be some more open electives of interdisciplinary nature that would be offered by other branches, which will be notified and list will be finalized later.

**Last date for Feedback is on or before 09<sup>th</sup> May 2017**

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Sl. No	Subject Code	Title	Teaching Hours /Week		Examination				Credits
			Theory	Practical/ Drawing	Duration	Theory/ Practical Marks	I.A. Marks	Total Marks	
1	15XX61	Digital Communication	04		03	80	20	100	4
2	15XX62	Embedded Systems	04		03	80	20	100	4
3	15XX63	HDL	04		03	80	20	100	4
4	15XX64	Computer Communication Networks	03		03	80	20	100	4
5	15XX65X	Professional Elective-2	03		03	80	20	100	3
6	15XX66X	Open Elective-2	03	1I+2P	03	80	20	100	3
7	15XXL67	Embedded Systems lab		1I+2P	03	80	20	100	2
8	15XXL68	HDL lab		1I+2P	03	80	20	100	2
<b>TOTAL</b>			<b>22</b>	<b>6</b>	<b>24</b>	<b>640</b>	<b>160</b>	<b>800</b>	<b>26</b>

Professional Elective		Open Elective	
15XX651	Medical Electronics	15XX661	Mechatronics
15XX652	Nano Electronics	15XX662	Data Structures Using C++
15XX653	Image Processing	15XX663	Artificial Intelligence
15XX654	Digital System design using Verilog	15XX664	Big Data Analytics
15XX655	Satellite Communication	15XX665	JAVA & CGI programming
15XX656	Digital Switching Systems	15XX666	Management Information Systems
		15XX667	Cloud Computing
		15XX668	Advanced Physics for Engineers

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**VII SEMESTER**

Sl. No	Subject Code	Title	Teaching Hours /Week		Examination				Credits
			Theory	Practical/ Drawing	Duration	I.A. Marks	Theory/ Practical Marks	Total Marks	
1	15XX71	Antennas and Wave Propagation	04		03	20	80	100	4
2	15XX72	Microwave & Fiber Communication	04		03	20	80	100	4
3	15XX73	CMOS VLSI	04		03	20	80	100	4
4	15XX74X	Professional Elective-3	03		03	20	80	100	3
5	15XX75X	Professional Elective-4	03		03	20	80	100	3
6	15XXL76	Advanced Communication Lab		1I+2P	03	20	80	100	2
7	15XXL77	VLSI lab		1I+2P	03	20	80	100	2
8	15XXP78	Project Work Phase – I + Seminar		-		100	-	100	2
<b>TOTAL</b>			<b>18</b>	<b>6</b>	<b>21</b>	<b>240</b>	<b>560</b>	<b>800</b>	<b>24</b>

Professional Elective-3		Professional Elective-4	
15XX741	Multimedia Communication	15XX751	DSP Architecture
15XX742	Biomedical Signal Processing	15XX752	IOT
15XX743	Cryptography	15XX753	Wireless Sensor Networks
15XX744	Real Time Systems	15XX754	Advanced Computer Architecture
15XX745	Mixed Mode VLSI	15XX755	Adaptive Signal Processing

**1. Project Phase –I + Seminar:** Literature Survey, Problem Identification, objectives and Methodology. Submission of synopsis and seminar.

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**VIII SEMESTER**

Sl. No	Subject Code	Title	Teaching Hours /Week		Examination				Credits
			Theory	Practical/ Drawing	Duration	I.A. Marks	Theory/ Practical Marks	Total Marks	
1	15XX81	Wireless Communication	4	-	3	20	80	100	4
2	15XX82	Power Electronics	4	-	3	20	80	100	4
3	15XX83X	Professional Elective-5	3	-	3	20	80	100	3
4	15XX84	Internship/Professional Practice	Industry Oriented		3	50	50	100	2
5	15XXP85	Project Work	-	6	3	100	100	200	6
6	15XXS86	Seminar	-	4	-	100	-	100	1
<b>TOTAL</b>			<b>11</b>	<b>10</b>	<b>15</b>	<b>310</b>	<b>390</b>	<b>700</b>	<b>20</b>

<b>Professional Elective -5</b>	
15XX831	MEMS
15XX832	GPS & Localization
15XX833	Machine Learning
15XX834	Network and Cyber Security
15XX835	Wireline Communication
15XX836	Satellite Remote Sensing
15XX837	Low Power VLSI

**1. Internship / Professional Practice:** To be carried between the 6<sup>th</sup> and 7<sup>th</sup> semester vacation or 7<sup>th</sup> and 8<sup>th</sup> semester vacation period.

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