

**R V COLLEGE OF ENGINEERING, BENGALURU-560 059**  
(Autonomous Institution Affiliated to VTU, Belagavi)

THIRD SEMESTER CREDIT SCHEME								
Sl. No.	Course Code	Course Title	BoS	CREDIT ALLOCATION				
				L	T	P	S	Total Credits
1.	16MA31B	Discrete and Integral Transforms	MAT	3	1	0	0	4
2.	16ET32	Environmental Technology	BT	2	0	0	0	2
3.	16EI33	Linear IC's and Applications (Theory and Practice)	EI	3	0	1	1	5
4.	16EI34	Digital Circuit Design (Theory and Practice)	EI	3	0	1	1	5
5.	16EI35	Signals & Systems	EI	3	1	0	0	4
6.	16EI36	Measurements and Instrumentation	EI	3	0	0	1	4
7.	16DCS37	Bridge Course C Programming *	CS	2	0	0	0	0
<b>Total number of Credits</b>								<b>24</b>
<b>Total Number of Hours / Week</b>				<b>17+2*</b>	<b>4</b>	<b>4</b>	<b>12**</b>	<b>27</b>

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FOURTH SEMESTER CREDIT SCHEME								
Sl. No.	Course Code	Course Title	BoS	CREDIT ALLOCATION				
				L	T	P	S	Total Credits
1.	16MA41B	Linear Algebra and Probability Theory	MAT	3	1	0	0	4
2.	16EM42B	Engineering Materials	EC	2	0	0	0	2
3.	16EI43	Microcontroller & Applications (Theory and Practice)	EI	3	0	1	1	5
4.	16EI44	Sensors and Instrumentation (Theory and Practice)	EI	3	0	1	1	5
5.	16EI45	Control Systems and Modelling	EI	3	1	0	0	4
6.	16EI46	Digital System Design using Verilog (Theory and Practice)	EI	3	0	1	1	5
7.	16HS47	Professional Practice-II (Communication Skills & Professional Ethics)	HSS	0	0	0	0	1
8.	16DMA48	Bridge Course Mathematics**	MAT	2	0	0	0	0
<b>Total number of Credits</b>								<b>26</b>
<b>Total Number of Hours / Week</b>				<b>17+2**</b>	<b>4</b>	<b>6</b>	<b>12**</b>	<b>29</b>

\*Mandatory Audit course for lateral entry diploma students

\*\*Non-contact hours

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<b>FIFTH SEMESTER CREDIT SCHEME</b>								
<b>Sl. No</b>	<b>Course Code</b>	<b>Course Title</b>	<b>BOS</b>	<b>Credit Allocation</b>				<b>Total Credits</b>
				<b>L</b>	<b>T</b>	<b>P</b>	<b>S</b>	
1	16HEM51	Foundations of Management and Economics	HSS	2	0	0	0	2
2	16EI52	VLSI Technology (Theory and Practice)	EI	3	0	1	1	5
3	16EI53	Digital Signal Processing & Applications (Theory and Practice)	EI	3	0	1	1	5
4	16EI54	Non-Linear Control Systems	EI	3	0	0	0	3
5	16EI55	OOPS with C++ & Data Structure	EI	3	1	0	0	4
6	16EI5AX	Elective A (PE)	EI	3	0	0	1	4
7	16G5BXX	Elective B (OE)	EI	4	0	0	0	4
		Total No. of Credits						<b>27</b>
		No. Of Hrs.		<b>21</b>	<b>2</b>	<b>4</b>	<b>12**</b>	<b>27</b>

\*\*Non-contact hours

Elective A (PE)	Elective Title	Elective B (OE)	Elective Title
16EI5A1	Computer Organization & Architecture	16G5B08	Sensors & Applications
16EI5A2	Biomedical Instrumentation		
16EI5A3	Micro Electro-Mechanical Systems and Applications		
16EI5A4	Image Processing		

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<b>SIXTH SEMESTER CREDIT SCHEME</b>								
Sl. No.	Course Code	Course Title	BOS	Credit Allocation				Total Credits
				L	T	P	S	
1	16HSI61	IPR & Entrepreneurship	HSS	3	0	0	0	3
2	16EI62	Virtual Instrumentation & Data acquisition (Theory and Practice)	EI	3	0	1	1	5
3	16EI63	Automatic Process Control and Modelling Techniques (Theory and Practice)	EI	3	0	1	1	5
4	16EI64	Communication Systems	EI	3	1	0	0	4
5	16EI6CX	Elective C (PE)	EI	3	0	0	1	4
6	16EI6DX	Elective D(PE)	EI	4	0	0	0	4
7	16G6EXX	Elective E(OE)	EI	3	0	0	0	3
8	16HS68	Professional Practice-III (Employability Skills and Professional Development of Engineers) \$\$	HSS	1	0	0	0	1
		Total No. of Credits						<b>29</b>
		No. Of Hrs.		<b>23</b>	<b>2</b>	<b>4</b>	<b>12**</b>	<b>29</b>

\$\$ 3 days (18 Hrs) in 5<sup>th</sup> semester and 3 days (18 Hrs) in 6<sup>th</sup> semester \*\*Non-contact hours

Elective C (PE)	Elective Title	Elective D (PE)	Elective Title	Elective E (OE)	Elective Title
16EI6C1	Computer Communication Networks	16EI6D1	Analytical Instrumentation	16G6EXX	Virtual Instrumentation
16EI6C2	Advanced Signal Processing	16EI6D2	Automotive Electronics		
16EI6C3	Lasers Instrumentation and Application	16EI6D3	Application Specific Integrated Circuits (ASIC)		
16EI6C4	Java Programming	16EI6D4	Aircraft Instrumentation		

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<b>SEVENTH SEMESTER CREDIT SCHEME</b>								
<b>Sl. No</b>	<b>Course Code</b>	<b>Course Title</b>	<b>BOS</b>	<b>Credit Allocation</b>				<b>Total Hours</b>
				<b>L</b>	<b>T</b>	<b>P</b>	<b>S</b>	
1	16EI71	Industrial Automation Technology (Theory and Practice)	EI	4	0	1	0	5
2	16EI72	ARM Processor (Theory and Practice)	EI	4	0	1	0	5
3	16EI73	Mini Project	EI	3	0	0	0	3
4	16EI7FX	Elective F (PE)	EI	4	0	0	0	4
5	16EI7GX	Elective G(PE)	EI	4	0	0	0	4
6	16G7HXX	Elective H (OE)	EI	3	0	0	0	3
		Total No. of Hours						<b>24</b>
		No. Of Hrs.		<b>22</b>	<b>0</b>	<b>4</b>	<b>0</b>	<b>26</b>

\* EI, EE, CV, EC, ME – 6 hrs. / week Minor Project.

<b>Elective F (PE)</b>	<b>Elective Title</b>	<b>Elective G(PE)</b>	<b>Elective Title</b>	<b>Elective H (OE)</b>	<b>Elective Title</b>
16EI7F1	Optimization Techniques	16EI7G1	Simulation & Modelling	16G7H08	MEMS and Applications
16EI7F2	Robotics	16EI7G2	System on Chip (SoC)		
16EI7F3	Product Design Technology	16EI7G3	Safety Instrumentation		
16EI7F4	Real time Operating systems (RTOS)	16EI7G4	Wireless Instrumentation		
<b>PE - PROFESSIONAL ELECTIVE</b>			<b>OE- OTHER ELECTIVES</b>		

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<b>EIGHTH SEMESTER CREDIT SCHEME</b>								
<b>Sl. No.</b>	<b>Course Code</b>	<b>Course Title</b>	<b>BOS</b>	<b>Credit Allocation</b>				<b>Total Hours</b>
				<b>L</b>	<b>T</b>	<b>P</b>	<b>S</b>	
1	16EIP81	Major Project	EI	0	0	16	0	16
2	16EIS82	Technical Seminar	EI	0	0	2	0	2
3	16HSS83	Innovation and Social Skills	HSS	0	0	2	0	2
		Total No. of Hours						20
		No. Of Hrs.		0	0	40	0	