

# The National College, Autonomous, Basavanagudi Bangalore-4

I Semester - M.Sc Electronics						
Course	Title of the Paper	Hours /Week	Marks			Credits
			IA	Exam	Tot	
E1.1	Network Analysis	4	30	70	100	4
E1.2	Microprocessor and ARM	4	30	70	100	4
E1.3	Digital Communication	4	30	70	100	4
E1.4	Semiconductor Devices and Nano Technology	4	30	70	100	4
L1.1	MASM and ARM interfacing Lab	4	30	70	100	4
L1.2	Communications Lab	4	30	70	100	4
<b>Total Credit</b>					<b>600</b>	<b>24</b>

II Semester - M.Sc Electronics						
Course	Title of the Paper	Hours /Week	Marks			Credits
			IA	Exam	Tot	
E2.1	Control System	4	30	70	100	4
E2.2	Java Programming	4	30	70	100	4
E2.3	Microwave Engineering	4	30	70	100	4
E2.4	Instrumentation Technology	4	30	70	100	4
L2.1	Java Programming Lab	4	30	70	100	4
L2.2	Microwave and Instrumentation using LABVIEW	4	30	70	100	4
<b>Total Credit</b>					<b>600</b>	<b>24</b>

III Semester - M.Sc Electronics						
Course	Title of the Paper	Hours /Week	Marks			Credits
			IA	Exam	Tot	
E3.1	Digital Signal Processing	4	30	70	100	4
E3.2	Communication Networks	4	30	70	100	4
E3.3	VLSI and Digital Design using VHDL	4	30	70	100	4
E3.4	Thin films and MEMS Technology	4	30	70	100	4
L3.1	MATLAB Lab	4	30	70	100	4
L3.2	VHDL Lab	4	30	70	100	4
OE	Open to the students of Other Disciplines	2	15	35	50	2
	1. Electronics for all					
<b>Total Credit</b>					<b>650</b>	<b>26</b>

IV Semester - M.Sc Electronics						
Course	Title of the Paper	Hours /Week	Marks			Credits
			IA	Exam	Tot	
E4.1	Embedded system	4	30	70	100	4
E4.2	<b>Electives :</b> 1. Virtual Instrumentation 2. Machine Intelligence 3. Android 4. Wireless Communications 5. Avionics 6. Design of Analog and mixed VLSI circuits	4	30	70	100	4
L4	Project	16	120	280	400	16