CONSOLIDATED SCHEME FOR ALL SEMESTERS
BSc (Electronics & Computer Maintenance) – (Model -III)

rSemeste	Course Code	Title of the Course	Course Category	Per weekhoursNo. of	No. of Credits	Total hrs/semester	Total Credits
1	EN1CC**T**01	English – I, Fine tune your English	Common	5	4	90	21
	EL1CRT01	Basic Electronics	Core - I	4	4	72	
	EL1CRT02	Methodology of Science	Core – I	4	4	72	
	EL1CRP01	Basic Electronics Lab – Practical	Core – I	4	2	72	
	EM1CRT01	C Programming	Core - II	4	4	72	
	MM1CMT01	Partial Differentiation, Matrices, Trigonometry and Numerical methods	Complementary	4	3	72	
2	EN2CC**T**03	English II– Issues that matter	Common	5	4	90	19
	EL2CRT03	Electronic circuits	Core – I	4	4	72	
	EL2CRT05	Digital Electronics	Core – I	4	4	72	
	EL2CRP02	Digital Electronics Laboratory Practical	Core – I	4	2	72	
	EM2CRP01	C Programming Lab	Core – II	4	2	72	
	MM2CMT01	Integral Calculus and Differential Equations	Complementary	4	3	72	
3	**EL3CRT06**	Analog Communication	Core – I	4	4	72	21
	EL3CRT07	Analog ICs and Applications	Core – I	4	4	72	
	EL3CRP04	Analog Electronics Circuits Lab- Practical	Core – I	4	2	72	

	EM3CRT02	Microprocessor Architecture, Programming and applications	Core – II	4	3	72	
	EM3CRT03	Operating system Concepts	Core – II	4	4	72	
	MM3CMT01	Vector Calculus, Analytic Geometry And Abstract Algebra	Complementary	5	4	90	

Semester	Course Code	Title of the Course	Course Category	No. of hours per week	No. of Credits	Total hrs / semester	Total Credits
4	EL4CRT12	Digital Communication	Core – I	4	4	72	20
	EL4CRT13	Instrumentation Electronics	Core - I	4	4	72	
	EM4CRT04	Fundamentals of Computers	Core – II	4	4	72	
	EM4CRP02	Intel 8085 Assembly language Programming Lab-Practical	Core – II	5	2	90	
	EM4OJP01	On The Job Training	Core	3	2	54	
	MM4CMT01	Fourier Series, Laplace Transform And Complex Analysis	Complementary	5	4	90	
5	EL5CRT14	Microcontrollers and Applications	Core – I	4	4	72	19
	EL5CRT15	Environmental awareness, E-Waste Management and human rights	Core – I	4	4	72	
	EL5CRP07	Communication Lab – Practical	Core – I	4	2	72	
	EM5CRT05	PC Maintenance and Troubleshooting	Core – II	4	4	72	
	EM5CRP03	PC Hardware Lab	Core – II	5	2	90	
	EM5OPTXX	Open Course	Core – I	4	3	72	

6	**EL6CRT18**	Computer Networks	Core – I	5	4	90	
	EM6CRT06	Intel 8086 Microprocessor and Programming	Core- II	4	4	72	
	EM6CRP04	Intel 8086 Assembly language Programming Lab	Core- II	4	2	72	20
	EM6CRT07	Entrepreneurship Development and marketing	Core – II	3	3	54	
	EM6CBTXX	Choice Based Course	Core	4	4	72	
	EM6PRP01	Project Lab	Core	5	3	90	

Common Course - *(Common with English for BA/B.Sc. Programmes)*

1. EN1CC**T**01 -   English – I, Fine tune your English
2. EN2CC**T**03 - English II– Issues that matter

Complementary Course - MATHEMATICS COMPLEMENTARY COURSE TO PHYSICS/CHEMISTRY/PETROCHEMICALS/GEOLOGY/FOOD SCIENCE AND QUALITYCONTROL/ELECTRONICS AND COMPUTER MAINTENANCE

1. MM1CMT01 - Partial Differentiation, Matrices, Trigonometry and Numerical methods
2. MM2CMT01 - Integral Calculus and Differential Equations
3. MM3CMT01 - Vector Calculus, Analytic Geometry And Abstract Algebra
4. MM4CMT01 - Fourier Series, Laplace Transform And Complex Analysis

First Core Course – Electronics
(Changes done)

1. EM1CRT01- Basic Electronics *(Common with B.Sc Electronics-* **EL1CRT01** *)*

2. EM1CRT02 - Methodology of Science *(Common with B.Sc Electronics-* **EL1CRT02** *)*
3. EM1CRP01 - Basic Electronics Lab – Practical *(Common with B.Sc Electronics-* **EL1CRP01** *)*
4. EM2CRT04- Electronic circuits *(Common with B.Sc Electronics -* **EL2CRT03***)*
5. EM2CRT05 – Digital Electronics *(Common with B.Sc Electronics -* **EL2CRT05** *)*

6. EM2CRP02 - Digital Electronics Laboratory Practical **(Common with B.Sc Electronics- EL2CRP02)**
7. EM3CRT06 - Analog Communication **(Common with B.Sc Electronics- EL3CRT06)**
8. EM3CRT07- Analog ICs and Applications *(Common with B.Sc Electronics-* **EL3CRT07**)
9. EM3CRP04 - Analog Electronics Circuits Lab- Practical *(Common with B.Sc Electronics-* **EL3CRP04**)
10. EM4CRT10 - Digital Communication**(Common with B.Sc Electronics- EL4CRT12**)
11. EM4CRT11 - Instrumentation Electronics **(Common with B.Sc Electronics- EL4CRT13)**
12. EM5CRT13 - Microcontrollers and Applications **(Common with B.Sc Electronics- EL5CRT14)**
13. EM5CRT14 - Environmental awareness, E-Waste Management and human rights **(Common with B.Sc Electronics- EL5CRT15)**
14. EM5CRP06 - Communication Lab – Practical **(Common with B.Sc Electronics -EL5CRP07)**
15. EM6CRT16 - Computer Networks **(Common with B.Sc Electronics - EL6CRT18**)

Second Core Course- Computer Maintenance
(Changes done)
1. EM1CRT01 - C Programming
2. EM2CRP01 - C Programming Lab
3. EM3CRT02 - Microprocessor Architecture, Programming and applications
4. EM3CRT03- Operating system Concepts
5. EM4CRT04 - Fundamentals of Computers
6. EM4CRP02 - Intel 8085 Assembly language Programming Lab- Practical
7. EM5CRT05- PC Maintenance and Troubleshooting
8. EM5CRP03- PC Hardware Lab
9. EM6CRT06- Intel 8086 Microprocessor and Programming
10. EM6CRP04- Intel 8086 Assembly language Programming Lab
11. EM6CRT07- Entrepreneurship Development and marketing

On The Job Training
1. EM4OJP01- On the Job training

Open Course
1. **EM5OPTxx- Open Course**

Semester	Code	Paper Title	Remarks
V	**EM05OPT01**	Satellite	
V	**EL05OPT01**	Computer Assembling	Common with BSc Electronics
V	**EM05OPT02**	Information Technology	

Choice Based Course
1. **EM6CBTxx- Choice Based Course**

Semester	Code	Paper Title
VI	**EM06CBT01**	IC Technology
VI	**EM06CBT02**	Optoelectronics
VI	**EM06CBT03**	Mechatronics

Project
1. EM6PRP01- Project Lab