

MANGALORE UNIVERSITY
DEPARTMENT OF STUDIES AND RESEARCH IN ELECTRONICS
MSc Electronics CBCS Course Structure
1 Semester

Hard Core

Sl. No.	Course	Credits
1	ELH 401- Analog Devices and Circuits	4
2	ELH 402- Digital System Design	4
3	ELH 403 – Microprocessors and Microcontroller	3

Soft Core

Sl. No.	Course	Credits
1	ELS 404 - Programming in C	3
2	ELS 405 – Power Electronics	
3	ELS 406 – Network Analysis	
4	ELS 407 – Verilog HDL	
5	ELS 408 – Signals and Systems	

Practical

1	ELP 411 – Analog and Digital Experiments	3
2	ELP 412 – Microprocessor and Microcontroller programming	3

II Semester

Hard Core

Sl. No.	Course	Credits
1	ELH 451 - Analog and Digital Communication	4
2	ELH 452 - Digital Signal Processing	4
3	ELH 453 - Basic VLSI Design	3

Soft Core

Sl. No.	Course	Credits
1	ELS 454 - Embedded System Design	3
2	ELS 455 – Computer Network	
3	ELS 456 - Control System	
4	ELS 457 – Programming with Embedded Platforms	
5	ELS 458 - Biomedical Instrumentation	

Practical

1	ELP 461 - Communication Practical	3
2	ELP 462 - Digital Signal Processing Practical	3

Open Elective

Sl. No.	Course	Credits
1	ELE 459 – Introduction to Music Technology	3
2	ELE 460 - Electronic Communication	3

III Semester

Hard Core

Sl.		
No.	Course	Credits
1	ELH 501 – Digital Image Processing	4
2	ELH 502 - Low Power VLSI Circuit Design	3
3	ELH 503 - Wireless Communication Systems	3

Soft Core

Sl.		
No.	Course	Credits
1	ELS 504 - Nano Electronics	3
2	ELS 505 - Microwave Devices and Circuits	
3	ELS 506 – Speech and Audio Processing	
4	ELS 507 – PIC Microcontroller	
5	ELS508 – ARM Processor	
6	ELS 513 - Design and Analysis of Algorithms	

Practical

1	ELP 511 - Digital Image Processing Practical	3
2	ELP 512 - VLSI Practical using CAD Tools	3

Open Elective

Sl.		
No.	Course	Credits
1	ELE 509 – Consumer Electronics	3

IV Semester

Hard Core

Sl.		
No.	Course	Credits
1	ELP 551 - Project	18