PES UNIVERSITY
(Established under Karnataka Act No. 16 of 2013)
100 Feet Ring Road, BSK III Stage, Bengaluru-560 085
Department of Computer Science and Engineering

Session : Jan - May, 2020

MODE OF CONDUCTION(ISA-ESA PATTERN): SUMMARY

SEMESTER – 4

Core Course

UE18MA251 – Linear Algebra	Anchor: Prof. Geetha Shankar
Pattern: **ISA – 40 Marks (ISA - 1 + ISA – 2 + Assignment)** **ESA – 60 Marks**	
ISA -1	CBT (40 Marks -> 15 Marks)
ISA - 2	CBT (40 Marks -> 15 Marks)
Assignment	10 Marks
ESA	Pen & Paper (100 Marks -> 60 Marks)

UE18CS251 – Design and Analysis of Algorithms	Anchor: Prof. Channa Bankapur
Pattern: **ISA – 40 Marks (ISA – 1 + ISA – 2 + Assignment)** **ESA – 60 Marks**	
ISA -1	CBT (40 Marks -> 15 Marks)
ISA - 2	CBT (40 Marks -> 15 Marks)
Assignment	10 Marks
ESA	Pen & Paper (100 Marks -> 60 Marks)

UE18CS252 – Database Management Systems	Anchor: Prof. Suresh Jamadagni
Pattern: **ISA – 60 Marks (ISA – 1 + ISA – 2 + Assignmnent)** **ESA – 40 Marks**	
ISA -1	CBT (40 Marks -> 20 Marks)
ISA - 2	CBT (40 Marks -> 20 Marks)
Assignment	20 Marks
ESA	Pen & Paper (100 Marks -> 40 Marks)

UE18CS253 – Microprocessor and Computer Architecture	Anchor: Dr. Jayashree R
Pattern:	

ISA – 40 Marks (ISA – 1 + ISA – 2) ESA – 60 Marks	
ISA -1	CBT (40 Marks -> 20 Marks)
ISA - 2	CBT (40 Marks -> 20 Marks)
ESA	Pen & Paper (100 Marks -> 60 Marks)

UE18CS254 – Theory of Computation   Anchor: Dr. Pooja Agarwal

Pattern: ISA – 40 Marks (ISA – 1 + ISA – 2 + Assignment) ESA – 60 Marks	
ISA -1	CBT (40 Marks -> 15 Marks)
ISA - 2	CBT (40 Marks -> 15 Marks)
Assignment	10 Marks
ESA	Pen & Paper (100 Marks -> 60 Marks)

Laboratory

UE18CS255 – Design and Analysis of Algorithms   Anchor: Prof. Preethi P

Pattern: ISA – 60 Marks (Observation + Conduction + Viva) ESA – 40 Marks	
ISA	Observation – 10 Marks
	Conduction – 40 Marks
	Viva – 10 Marks
FSA	FSA quiz (20 Marks)
	Viva (20 Marks)

UE18CS256 – Microprocessor and Computer Architecture   Anchor: Prof. Roopa Ravish

Pattern: ISA – 60 Marks (Observation + Conduction + Viva + Project) ESA – 40 Marks	
ISA	Observation – 10 Marks
	Conduction – 25 Marks
	Project – 20 Marks
	Viva – 5 Marks
FSA	FSA quiz (20 Marks)
	Conduction (20 Marks)

Special Topic

UE18CS257A – Web Frameworks	Anchor: Prof. Vidhu Rojit

Pattern:
ISA – 20 Marks (ISA – 1 + Assignment + Quiz)
ESA – 30 Marks

ISA - 1	20 Marks -> 10 Marks
Assignment	10 Marks -> 5 Marks
Quiz	5 Marks
ESA	Pen & Paper (50 Marks -> 15 Marks) + Project (15 Marks)

UE18CS257B – Android Application Development	Anchor: Prof. Silviya Nancy J

Pattern:
ISA – 20 Marks (ISA – 1 + ISA - 2)
ESA – 30 Marks (Written Exam + Project)

ISA - 1	CBT (20 Marks -> 10 Marks)
ISA - 2	CBT (20 Marks -> 10 Marks)
ESA	Pen & Paper (50 Marks -> 20 Marks) + Project (10 Marks)

UE18CS257C – Secure Programming with C	Anchor: Prof. Nagasundari S

Pattern:
ISA – 30 Marks (ISA – 1 + ISA – 2 + Lab & Assignment)
ESA – 20 Marks

ISA -1	CBT (20 Marks -> 10 Marks)
ISA - 2	CBT (20 Marks -> 10 Marks)
Lab & Assignment	10 Marks
ESA	Pen & Paper (50 Marks -> 20 Marks)

UE18CS257D – Fine Techniques	Anchor: Prof. N S Kumar

Pattern:
ISA – 30 Marks (ISA – 1 + ISA – 2)
ESA – 20 Marks

ISA – 1 & ISA - 2	Assignment 1 & Assignment 2 & Assignment 3 (30 Marks)
ESA	CBT – MCQs (20 Marks -> 10 Marks) + Mini-Project (10 Marks)

UE18CS257E – Matlab for Image Processing	Anchor: Prof. Chandravva Hebbi

Pattern:
ISA – 30 Marks (ISA – 1 + ISA – 2 + Project)
ESA – 20 Marks

ISA -1	CBT (20 Marks -> 10 Marks)

ISA - 2	CBT (20 Marks -> 10 Marks)
Project	10 Marks
ESA	Pen & Paper (50 Marks -> 20 Marks)

UE18CS208A – Operation Linux   **Anchor: Prof. Ajoy Kumar**

Pattern: **ISA – Assignments** **ESA – Written exam + Project**	
ISA	Assignment 1 (20 Marks) & Assignment 2 (20 Marks)
ESA	Project (40 Marks) + Pen & Paper exam (20 Marks)

Chairperson, CSE