



MCA

(MASTER OF COMPUTER APPLICATIONS)

CURRICULUM

2026 REGULATION

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Kochi

BRIDGE COURSE- 2026 SCHEME

COURSE CATEGORY	COURSE CODE	COURSE NAME	L	T	J	P	S	CREDIT / SEM.
B	A260101	Foundations of Mathematics and Statistics	10	0	0	0	5	NIL
B	A260102	Foundations of Computing and Digital Systems	10	0	0	0	5	
B	A260103	Programming Concepts using C	10	0	0	10	10	
B	A260104	Digital Productivity Tools	0	0	0	8	5	

2026 SCHEME

SEM	SLOT	COURSE CATEGORY	COURSE CODE	COURSE NAME	L	T	J	P	S	C	CREDIT / SEM.
I	A	PCT	A260201/MA100A	Mathematical and Statistical Foundations for Computing	2	1	0	0	4	3	24
	B	PCT	A260201/CA100B	Digital Design and Computer Architecture	2	1	0	0	4	3	
	C	PCT	A260201/CA100C	Software Engineering and Project Management	2	1	0	0	4	3	
	D	PCE	A260201/CA110D	Data Structures	2	1	0	3	3	5	
	E	PCE	A260201/CA110E	Problem Solving using Python	2	1	0	3	3	5	
	F	PCE	A260201/CA120F	Web Application Development	2	1	0	3	3	5	
	U	SEC	A260201/CA130U	Skill Enhancement Course I	0	0	0	1	0	0	
II	A	PCT	A260201/CA200A	Foundations of Cyber Security	2	1	0	0	4	3	25
	B	PCT	A260201/CA200B	Design and Analysis of Algorithm	2	1	0	0	4	3	
	C	PET	A260201/CA21*C	Program Elective I	2	1	0	0	4	3	
	D	PCE	A260201/CA210D	Advanced Database Management Systems	2	1	0	3	2	5	
	E	PCE	A260201/CA210E	Object Oriented Programming using Java	2	1	0	3	2	5	
	F	PCE	A260201/CA220F	Machine Learning	2	1	0	3	2	5	
	W	SEC	A260201/CA200W	First NPTEL course						1	
III	A	PCT	A260201/CA300A	Computer Networks and Security	2	1	0	0	4	3	21
	B	PET	A260201/CA31*B	Program Elective II	2	1	0	0	4	3	
	C	PET	A260201/CA32*C	Program Elective III	2	1	0	0	4	3	
	D	PCE	A260201/CA310D	Mobile Application Development Lab	2	1	0	3	2	5	
	E	PCE	A260201/CA310E	Operating System	2	1	0	3	2	5	
	K	PCR	A260201/CA300K	Mini Project	0	0	4	0	4	2	
	U	SEC	A260201/CA330U	Skill Enhancement Course II	0	0	0	1	0	0	
IV	A	PCT	A260201/CA400A	Comprehensive Viva	0	0	0	0	3	3	21
	B	PRS	A260201/CA400B	Research Seminar	0	0	0	2	2	2	
	K	PCR	A260201/CA400K	Main Project	0	0	27	0	12	14	
	W	SEC	A260201/CA400W	Second NPTEL course						1	

Total Earned Credits	90
Mandatory Student Activities	1
MANDATORY TOTAL CREDITS FOR AWARD OF DEGREE	90+1=91
(L- Lecture, T-Tutorial, J-Project, P-Practical, S-Self-learning & Team Work, C- Credit) (PCT- Programme Core Theory, PCE- Programme Core lab Embedded, PET- Programme Elective Theory, SEC- Skill Enhancement Course, PCR- Programme Core Project, PRS- Programme Research Seminar)	

PROGRAMME ELECTIVE	SEMESTER	ELECTIVE BASKET(S)
Programme Elective I*	II	1. Technology Management 2. Artificial Intelligence and Data Science 3. Cyber Security and Forensics
Programme Elective II*	III	Same basket selected for Programme Elective I
Programme Elective III	III	Emerging Computing Technologies

* For Semester II – Programme Elective I, there are three elective baskets. A student shall choose any one basket in Semester II and continue with the same basket in Semester III for Programme Elective II. Only one course from a basket will be offered/active at a time.

Note:

1. Students shall select one elective basket for Programme Elective I during Semester II.
2. The same elective basket shall be continued for Programme Elective II in Semester III.
3. Programme Elective III shall be offered under the Emerging Computing Technologies basket.