

Progressive Education Society's
Modern College of Arts, Science and Commerce (Autonomous), Shivajinagar, Pune 5

(An Autonomous College Affiliated to Savitribai Phule Pune University)

Framework of Syllabus

For

B. B. A. (Computer Application) (Generative AI)

Choice Based Credit System (CBCS) Syllabus Under National Education Policy (NEP)

To be implemented from Academic Year 2026-2027

Level 4.5 (First Year) Semester I

Course Type	Course Code	Course Title	Credits		Teaching Scheme Hr/Week		Evaluation Scheme and Max Marks		
			TH	PR	TH	PR	CE	ESE	Total
Subject 1 T(2) + (T/P)(2) or T(4)	26BaBbcU1101	Procedure Oriented Programming Using C Language	2		2		20	30	50
	26BaBbcU1102	Lab Course on 26BaBbcU1101		2		4	20	30	50
Subject 2 T(2) + (T/P) (2) or T(4)	26BaBbcU1201	Database Management System	2		2		20	30	50
	26BaBbcU1202	Lab Course on 26BaBbcU1201		2		4	20	30	50
Subject 3 T(2) + (T/P) (2) or T(4)	26BaBbcU1301	Computer Technology - I (Web Design I)	2		2		20	30	50
	26BaBbcU1302	Lab Course on 26BaBbcU1301		2		4	20	30	50
IKS T(2)	26CpCopU1901	Generic IKS	2		2		20	30	50
GE/OE (T/P) (2)	26BaBbcU1401	Office Administration I (Microsoft Word)	2		2		20	30	50
SEC (T) (2)	26BaBbcU1601	Business Mathematics	2		2		20	30	50
AEC T(2)	26CpCopU1701 / 26CpCopU1702	MIL-I (Hindi) / MIL-I (Marathi)	2		2		20	30	50
VEC T(2)	26CpCopU1801	EVS-I	2		2		20	30	50
Total			16	06	16	12			550

Level 4.5 (First Year) Semester II

Course Type	Course Code	Course Title	Credits		Teaching Scheme Hr/Week		Evaluation Scheme and Max Marks		
			TH	PR	TH	PR	CE	ESE	Total
Subject 1 T(2) + T/P(2) or T(4)	26BaBbcU2101	Advanced 'C Programming	2		2		20	30	50
	26BaBbcU2102	Lab Course on 26BaBbcU2101		2		4	20	30	50
Subject 2 T(2) + T/P(2) or T(4)	26BaBbcU2201	Python Programming	2		2		20	30	50
	26BaBbcU2202	Lab Course on 26BaBbcU2201		2		4	20	30	50
Subject 3 T(2) + T/P(2) or T(4)	26BaBbcU2301	Computer Technology - II (Web Design II)	2		2		20	30	50
	26BaBbcU2302	Lab Course on 26BaBbcU2301		2		4	20	30	50
GE/OE (T/P)(2)	26BaBbcU2401	Office Administration II (MS Power Point)	2		2		20	30	50
SEC P(2)	26BaCopU2601	Discrete Mathematics and Graph Theory	2		2		20	30	50
AEC T(2)	26CpCopU2703	English Communication Skills I	2		2		20	30	50
VEC T(2)	26CpCopU2801	Democracy, Election and Governance	2		2		20	30	50
CC(2)	26CpCopU2001/26CpCopU2011 / 26CpCopU2021 /26CpCopU2031 / 26CpCopU2041 /26CpCopU2051 / 26CpCopU2061 /26CpCopU2071	Physical Education /Cultural Activities /NSS /NCC / Fine Arts /Applied Arts / Visual Arts /Performing Arts	2		2		20	30	50
Total			16	06	16	12			550

Level 5.0 (Second Year) Semester III

Course Type	Course Code	Course Title	Credits		Teaching Scheme Hr/Week		Evaluation Scheme and Max Marks		
			TH	PR	TH	PR	CE	EE	Total
Major Core T(2+2 or 4), (T/P)(2)	26BaBbcU3101	Advanced Python	2		2		20	30	50
	26BaBbcU3102	Relational Database Management System	2		2		20	30	50
	26BaCopU3103	Lab Course on 26BaBbcU3101 &26BaBbbcU3102		2		4	20	30	50
VSC T(2)	26BaBbcU3501	Fundamentals of AI	2		2		20	30	50
IKS (T/P)(2)	26BaBbcU3901	Vedic Mathematics	2		2		20	30	50
FP P(2)	26BaBbcU3002	Field Project I		2		4	20	30	50
Minor (T/P) (2+2 or 4)	26BaCopU3301	Computer Technology - III (Computational Statistics)	4		4		40	60	100
GE/OE (T/P) (2)	26BaBbcU3401	Office Administration III (Basics Of MS Excel)	2		2		20	30	50
AEC T(2)	26CpCopU3703	English Communication Skills II	2		2		20	30	50
CC T(2)	26CpCopU3001	Online Course on Yoga	2		2		20	30	50
Total			18	04	18	08			550

Level 5.0 (Second Year) Semester IV

Course Type	Course Code	Course Title	Credits		Teaching Scheme Hr/Week		Evaluation Scheme and Max Marks		
			TH	PR	TH	PR	CE	EE	Total
Major Core T(2+2 or 4), (T/P)(2)	26BaBbcU4101	Object Oriented Programming concepts using Java	2		2		20	30	50
	26BaBbcU4102	Data Structure	2		2		20	30	50
	26BaBbcU4103	Lab Course on 26BaBbcU4101 & 26BaBbcU4102		2		4	20	30	50
VSC T(2)	26BaGeiU4501	Fundamentals of Generative AI	2		2		20	30	50
CEP P(2)	26CpCopU4003	Community Engagement Project		2		4	20	30	50
Minor (T/P)(2+2 or 4)	26BaCopU4301	Computer Technology - IV (Lab Course on R Programming)		2		4	20	30	50
	26BaCopU4302	Computer Technology - V (Lab Course on Power BI)		2		4	20	30	50
GE/OE (T/P) (2)	26BaBbcU4401	Office Administration IV (Advanced Excel)	2		2		20	30	50
SEC T(2)	26BaBbcU4601	Basics of Management	2		2		20	30	50
AEC T(2)	26CpCopU4701 / 26CpCopU4702	MIL-II (Hindi) / MIL-II (Marathi)	2		2		20	30	50
CC T(2)	26CpCopU4001	Health and Wellness	2		2		20	30	50
Total			14	08	14	16			550

Level 5.5 (Third Year) Semester V

Course Type	Course Code	Course Title	Credits		Teaching Scheme Hr/Week		Evaluation Scheme and Max Marks		
			TH	PR	TH	PR	CE	EE	Total
Major Core T(2+2+2+2 or 4 + 2+2 or 4 + 4) P(2+2 or 4)	26BaGeiU5101	Multimodal Gen AI	2		2		20	30	50
	26BaGeiU5102	AI Product Development	2		2		20	30	50
	26BaGeiU5103	Lab Course on 26BaGeiU5101& 26BaGeiU5102		2		4	20	30	50
	26BaGeiU5104	Prompt Engineering	2		2		20	30	50
	26BaCopU5105	Lab Course on Generative AI (Open AI)		2		4	20	30	50
	26BaCopU5106	Data Visualization and Modeling	2		2		20	30	50
Major Elective (T/P) (2+2 or 4)	26BaBbcU5201	Operating System Concepts Or	4		4		40	60	100
	26BaBbcU5202	Information Security Systems Or	4		4		40	60	100
	26BaCopU5203	Data Analytics	4		4		40	60	100
VSC T(2)	26BaCopU5501	AI for Developers (NLP)	2		2		20	30	50
FP (2)	26BaBbcU5001	Field Project II		2		4	20	30	50
Minor (T/P) (2)	26BaBbcU5301	Computer Technology - VI (Cloud Computing)	2		2		20	30	50
Total			16	06	16	12			550

Level 5.5 (Third Year) Semester VI

Course Type	Course Code	Course Title	Credits		Teaching Scheme Hr/Week		Evaluation Scheme and Max Marks		
			TH	PR	TH	PR	CE	EE	Total
Major Core T(2+2+2+2 or 4+2+2 or 4+4) P(2+2 or 4)	26BaGeiU6101	Gen AI for content & automation	2		2		20	30	50
	26BaGeiU6102	Lab course on 26BaGeiU6101		2		4	20	30	50
	26BaGeiU6103	AI Deployment & ML Operations	2		2		20	30	50
	26BaCopU6104	Lab Course on Gen AI (Hugging Face)		2		4	20	30	50
	26BaCopU6105	Data Security & Privacy	2		2		20	30	50
	26BaCopU6106	AI Ethics & responsible AI	2		2		20	30	50
Major Elective (T/P) (2+2 or 4)	26BaBbcU6201	Recent Trends in Information Technology Or	4		4		40	60	100
	26BaBbcU6202	Software Project Management Or	4		4		40	60	100
	26BaCopU6203	Big Data	4		4		40	60	100
VSC T(2)	26BaCopU6501	AI for Developers (LLM)	2		2		20	30	50
OJT (2)	26BaBbcU6004	On Job Training		4		8	40	60	100
Total			14	08	14	16			550

