

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)

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

To be implemented from Academic Year 2024-2025

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)	24BaBbcU1101	Procedure Oriented Programming Using C Language	2		2		20	30	50
	24BaBbcU1102	Lab Course on 24BaBbcU1101		2		4	20	30	50
Subject 2 T(2) + (T/P) (2) or T(4)	24BaBbcU1201/ 24BaBbcU1203	Programming Principles & Algorithms & Computer Fundamentals / Database Management Systems (From AY 2026-27)	2		2		20	30	50
	24BaBbcU1202/ 24BaBbcU1204	Lab Course on 24BaBbcU1201/ Lab Course on 24BaBbcU1203 (From AY 2026-27)		2		4	20	30	50
Subject 3 T(2) + (T/P) (2) or T(4)	24BaBbcU1301	Computer Technology - I (Web Design I)	2		2		20	30	50
	24BaBbcU1302	Lab Course on 24BaBbcU1301		2		4	20	30	50
IKS T(2)	24CpCopU1901	Generic IKS	2		2		20	30	50
GE/OE (T/P) (2)	24BaBbcU1401	Office Administration I (Microsoft Word)	2		2		20	30	50
SEC T(P) (2)	24BaBbcU1601/24BaC opU1601	Lab Course on Statistical Tools using R Package / Business Mathematics (From AY 2026-27)	2		2		20	30	50
AEC T(2)	24CpCopU1701 / 24CpCopU1702	MIL-I (Hindi) / MIL-I (Marathi)	2		2		20	30	50
VECT (2)	24CpCopU1801	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)	24BaBbcU2101	Advanced 'C Programming	2		2		20	30	50
	24BaBbcU2102	Lab Course on 24BaBbcU2101		2		4	20	30	50
Subject 2 T(2)+ T/P(2) or T(4)	24BaBbcU2201/ 24BaBbcU2203	Database Management System / Python Programming (From AY 2026-27)	2		2		20	30	50
	24BaBbcU2202/ 24BaBbcU2204	Lab Course on 24BaBbcU2201/ Lab Course on 24BaBbcU2203 From (AY 2026-27)		2		4	20	30	50
Subject 3 T(2)+ T/P(2) or T(4)	24BaBbcU2301	Computer Technology - II (Web Design II)	2		2		20	30	50
	24BaBbcU2302	Lab Course on 24BaBbcU2301		2		4	20	30	50
GE/OE (T/P)(2)	24BaBbcU2401	Office Administration II (MS Power Point)	2		2		20	30	50
SEC T/ P(2)	24BaBbcU2601/ 24BaCopU2601	Lab Course on Operations Research / Discrete Mathematics & Graph Theory (From AY 2026- 27)	2		2		20	30	50
AEC T(2)	24CpCopU2703	English Communication Skills I	2		2		20	30	50
VEC T(2)	24CpCopU2801	Democracy, Election and Governance	2		2		20	30	50
CC(2)	24CpCopU2001/24CpCopU2011 / 24CpCopU2021 /24CpCopU2031 / 24CpCopU2041 /24CpCopU2051 / 24CpCopU2061 /24CpCopU2071	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)	24BaBbcU3101/24BaBbcU3104	Data Structure Using C / Advanced Python (From AY 2026-27)	2		2		20	30	50
	24BaBbcU3102	Relational Database Management System	2		2		20	30	50
	24BaBbcU3103 /24BaCopU3103	Lab Course on 24BaBbcU3101 & 24BaBbcU3102 / Lab Course on 24BaBbcU3102 & 24BaBbcU3104 (From AY 2026-27)		2		4	20	30	50
VSC P(2)	24BaBbcU3501	Lab Course on Social Media Marketing		2		4	20	30	50
IKS (T/P)(2)	24BaBbcU3901	Vedic Mathematics	2		2		20	30	50
FP P(2)	24BaBbcU3002	Field Project I		2		4	20	30	50
Minor (T/P) (2+2 or 4)	24BaBbcU3301	Computer Technology - III (Data Mining and Data Warehousing)	4		4		40	60	100
GE/OE (T/P) (2)	24BaBbcU3401	Office Administration III (Basics of MS- Excel)	2		2		20	30	50
AEC T(2)	24CpCopU3703	English Communication Skills II	2		2		20	30	50
CC T(2)	24CpCopU3001	Online Course on Yoga	2		2		20	30	50
Total			16	06	16	12			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)	24BaBbcU4101	Object Oriented Programming concepts using Java	2		2		20	30	50
	24BaBbcU4102/24BaBbcU4104	Programming in Python / Data Structures using C (From AY 2026-27)	2		2		20	30	50
	24BaBbcU4103 / 24BaCopU4103	Lab Course on 24BaBbcU4101 & 24BaBbcU4102 / Lab Course on 24BaBbcU4101 & 24BaBbcU4104 (From AY 2026-27)		2		4	20	30	50
VSC P(2)	24BaBbcU4501	Lab Course on Object Oriented Software Engineering		2		4	20	30	50
CEP P(2)	24CpCopU4003	Community Engagement Project		2		4	20	30	50
Minor (T/P)(2+2 or 4)	24BaBbcU4301	Computer Technology - IV (Artificial Intelligence)	4		4		40	60	100
GE/OE (T/P) (2)	24BaBbcU4401	Office Administration IV (Advanced Excel)	2		2		20	30	50
SEC T(2)	24BaBbcU4601	Basics of Management	2		2		20	30	50
AEC T(2)	24CpCopU4701 / 24CpCopU4702	MIL-II (Hindi) / MIL-II (Marathi)	2		2		20	30	50
CC T(2)	24CpCopU4001	Health and Wellness	2		2		20	30	50
Total			16	06	16	12			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)	24BaBbcU5101	Advanced Java	2		2		20	30	50
	24BaBbcU5102	Web Technology	2		2		20	30	50
	24BaBbcU5103	Computer Networks	4		4		40	60	100
	24BaBbcU5104	Lab Course on 24BaBbcU5101& 24BaBbcU5102		2		4	20	30	50
	24BaBbcU5105	Lab Course on Generative AI (Open AI)		2		4	20	30	50
Major Elective (T/P) (2+2 or 4)	24BaBbcU5201	Operating System Concepts	4		4		40	60	100
	OR								
	24BaBbcU5202	Information Security Systems	4		4		40	60	100
VSC P(2)	24BaBbcU5501	Lab Course on Software Testing Tools		2		4	20	30	50
FP (2)	24BaBbcU5001	Field Project II		2		4	20	30	50
Minor (T/P) (2)	24BaBbcU5301	Computer Technology - V (Cloud Computing)	2		2		20	30	50
Total			14	08	14	16			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)	24BaBbcU6101	Mobile Application Development	4		4		40	60	100
	24BaBbcU6102	Angular JS	2		2		20	30	50
	24BaBbcU6103	Lab Course on 24BaBbcU6101		2		4	20	30	50
	24BaBbcU6104	Lab Course on Generative AI (Hugging Face)		2		4	20	30	50
	24BaBbcU6105	Lab Course on 24BaBbcU6102		2		4	20	30	50
Major Elective (T/P) (2+2 or 4)	24BaBbcU6201	Recent Trends in Information Technology	4		4		40	60	100
	OR								
	24BaBbcU6202	Software Project Management	4		4		40	60	100
VSC P(2)	24BaBbcU6501	Block Chain	2		2		20	30	50
OJT (2)	24BaBbcU6004	On Job Training		4		8	40	60	100
Total			12	10	12	20			550