

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) Sem: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	Programming Principles & Algorithm & Computer Fundamentals	2		2		20	30	50
	24BaBbcU1202	Lab Course on 24BaBbcU1201		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							
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 (P) (2)	24BaBbcU1601	Lab Course on Statistical Tools Using R Package		2		4	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			14	06	14	12			550

Level:- 4.5 (First Year) Sem: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	Database Management System	2		2		20	30	50
	24BaBbcU2202	Lab Course on 24BaBbcU2201		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 P(2)	24BaBbcU2601	Lab Course on Operations Research		2		4	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			14	08	14	16			550

Level:- 5.0 (Second Year) Sem: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	Data Structure Using C	2		2		20	30	50
	24BaBbcU3102	Relational Database Management System	2		2		20	30	50
	24BaBbcU3103	Lab Course on 24BaBbcU3101 & 24BaBbcU3102		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 (IoT)	4		4		40	60	100
GE/OE (T/P) (2)	24BaBbcU3401	Office Administration III (Basics Of MS Excel)		2		4	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			14	08	14	16			550

Level:- 5.0 (Second Year) Sem: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	Programming in Python	2		2		20	30	50
	24BaBbcU4103	Lab Course on 24BaBbcU4101 & 24BaBbcU4102		2		4	20	30	50
VSC P(2)	24BaBbcU4501	Lab Course on Object Oriented Software Engineering		2		4	20	30	50
CEP P(2)	24BaBbcU4003	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		4	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			12	08	12	16			550

Level:- 5.5 (Third Year) Sem:-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		2		4	20	30	50
	24BaBbcU5105	Lab Course on 24BaBbcU5102		2		4	20	30	50
Major Elective (T/P) (2+2 or 4)	24BaBbcU5201	Operating System Concepts	4		4		40	60	100
	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)	24BaBbcU5302	Computer Technology - V (Cloud Computing)	2		2		20	30	50
Total			14	10	14	20			550

Level:- 5.5 (Third Year) Sem:-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	4		4		40	60	100
	24BaBbcU6103	Lab Course on 24BaBbcU6101		2		4	20	30	50
	24BaBbcU6104	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
	24BaBbcU6203	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			14	08	14	16			550