



SVKM's Usha Pravin Gandhi College of Arts, Science and Commerce (Autonomous), Mumbai
Bachelor of Information Technology (B.Sc.I.T.) Program Structure for First Year 2026-2027



SEMESTER I		SEMESTER II	
MAJOR		MAJOR	
Programming Logic And Techniques (3)		Object Oriented Concepts (3)	
Notion of Operating Systems (3)		Web Technologies (3)	
MINOR		MINOR	
Electronics & Communication Technology I (2)		Electronics & Communication Technology II (2)	
OE (Open Elective) (Any 1)		OE (Open Elective) (Any 2)	
Digital Marketing (2)		Introduction to Public Relation (2) Financial Literacy (2)	
Principles of Management (2)		Fundamentals of Leadership and Team Building (2)	
VSC/SEC (Vocation Specific Course/Skill Enhancement Course)		VSC/SEC (Vocation Specific Course/Skill Enhancement Course)	
Introduction to Computer Programming LAB (1)		Object Oriented Programming LAB (1)	
Operating System LAB (1)		Web Programming LAB (1)	
Discrete Mathematics (2)		Statistical Methods (2)	
AEC/VAC/IKS (Ability Enhancement Course/Value Added Course/Indian Knowledge System)		AEC/VAC/IKS (Ability Enhancement Course/Value Added Course/Indian Knowledge System)	
Communication Skills - I (2) (AEC)		Communication Skills - II (2) (AEC)	
Sustainable Green IT (2) (Value Added Courses)		Practical Applications in Green IT(2) (VAC)	
Bhartiya Gyan Parampara (2) (BGP)		-	
CC (Co-curricular Course)		CC (Co-curricular Course)	
NSS 1/Cultural 1/Sports 1/Yoga 1/DLLE 1/Health And Wellbeing (2)		NSS 2/Cultural 2/Sports 2/Yoga 2/DLLE 2	
Total Credits	22	Total Credits	22

Total Number of Credits in FYBSCIT: 44 and Total Courses: 22
 Figure in the brackets represent number of credits.

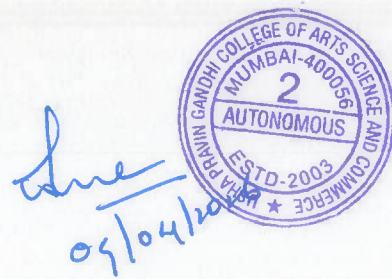


BSc IT USP	The Bachelor of Information Technology program at SVKM's Usha Pravin Gandhi College offers a A holistic Bachelor of Information Technology program at SVKM's UPG College, combining hands-on learning through live projects, internships, and industry exposure with strong placement support including mock interviews, aptitude training, resume building, and career opportunities.
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 05/04/2026

Nashant
 9/4/26

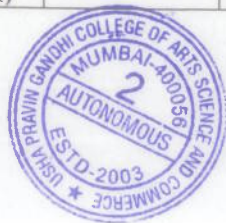
Bachelor of Science. (Information Technology) UPG College NEP Structure - March 2026										
Semester	Major		Minor	Open Elective	VSC/SEC	AEC	VAC	IKS	OJT/FP/CC/CEP	Total (Credits)
	Mandatory	Electives								
I	Programming Logic And Techniques (3)	NIL	Electronics and Communication Technology I (2)	(Any 1)	Introduction to Computer Programming LAB (1)	Communication Skills I (2)	Sustainable Green IT (2)	Bhartiya Gyan Parampara (2) (BGP)	NSS 1/Cultural 1/Sports 1/Yoga 1/DLLE 1/Health And Wellbeing (2)	22
	Notion of Operating Systems (3)			Digital Marketing (2)	Operating System LAB (1)					
				Principles of Management (2)	Discrete Mathematics (2)					
II	Object Oriented Concepts (3)	NIL	Electronics and Communication Technology II (2)	(Any 2)	Object Oriented Programming LAB (1)	Communication Skills II (2)	Practical Applications in Green IT (2)	NIL	NSS 2/Cultural 2/Sports 2/Yoga 2/DLLE 2	22
	Web Technologies (3)			Introduction to Public Relation (2)	Web Programming LAB (1)					
				Financial Literacy (2)	Statistical Methods (2)					
				Fundamentals of Leadership and Team Building (2)						
Total	12	0	4	6	8	4	4	2	4	44



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Exit option with Certificate (44 credits + 4 skill credits)										
Semester	Major		Minor	Open Elective (Any)	VSC/SEC	AEC (Any 1)*	VEC	IKS (Any 1)	OJT/FP/CC/CEP	Total (Credits)
	Mandatory	Electives								
III	Data Structures And Algorithm Data Structures And Algorithm LAB (3+1) Software Engineering (3) Python Programming LAB (1)	NIL	Networking Technology Networking Technology LAB (3+1)	Management Information System (2) Multimedia and Animation I (2)	Linear Algebra Concepts (2)	Hindi Level I (2) OR Marathi Level I (2) OR Gujarati Level I (2) OR Sanskrit Level I (2) OR Professional And Management Skills (2)	NIL	NIL	FIELD PROJECT (2) YOGA 3/ DLLE 3/ SPORTS 3/ NSS 3/ CULTURAL 3 (2)	22
IV	Database Management System Database Management System LAB (3+1) Core Java Core Java LAB (3+1)	NIL	Embedded System Embedded System LAB (3+1)	Multimedia and Animation II (2) Customer Retention and Engagement (2)	Numerical Methods (2)	Hindi Level II (2) OR Marathi Level II (2) OR Gujarati Level II (2) OR Sanskrit Level II (2) OR Universal Values And Skills (2)	NIL	NIL	COMMUNITY ENGAGEMENT PROJECT (2) YOGA 4/ DLLE 4/ SPORTS 4/ NSS 4/ CULTURAL 4 (2)	22
Total	16//28	0	8//12	4//10	4//12	4//8	0//4	0//2	8//12	44//88
Exit option with Certificate (88 credits + 4-skill credits)										
Semester	Major		Minor	Open Elective	VSC/SEC	AEC	VEC	IKS	OJT/FP/CC/CEP	Total (Credits)
	Mandatory	Electives (Any 1)								
V	Computational Indic Studies(2 Lab based) Enterprise Java (2) Design Principles Of User Interface And Experience(2+1) Software Project Management (2+1)	Artificial Intelligence(3+1) OR Security in Computing (3+1)	Internet Of Things (3+1)	NIL	Android Programmimg LAB (1) Enterprise Java LAB (1)	NIL	NIL	NIL	Field Project/CEP(2)	22
VI	Introduction to Devop(2+1) Data Science (3+1) Cloud Computing (2+1)	Advanced Artificial Intelligence (3+1) OR Ethical Hacking (3+1)	Search Engine Optimization (2) Project (1) Hybrid Mobile Application LAB(1)	NIL	NIL	NIL	NIL	NIL	On Job Training (4)	22
Total	20 // 48	8//8	8//20	0//10	2//14	0//8	0//4	0//2	6//18	88//132
Exit option with Degree (132 credits)										
Semester	Major		Minor (Any 1)	Open Elective	VSC/SEC	AEC	VEC	IKS	OJT/FP/CC/CEP	Total (Credits)
	Mandatory	Electives (Any 1)								

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VII	Soft Computing Techniques (3+1) Advanced Networking Technologies (3+1) Introduction to DevOps (3+1) Project Implementation I (2)	Big Data Analytics (3+1) OR Wireless and Mobile Communication (3+1)	RESEARCH METHODOLOGY (4)	NIL	NIL	NIL	NIL	NIL	NIL	22
VIII	Foundation of Blockchain (3+1) Time Series Analysis (3+1) Machine Learning (3+1) Project Implementation II (2)	Web Analytics (3+1) OR Image Processing (3+1)	NIL	NIL	NIL	NIL	NIL	NIL	INTERNSHIP, OJT (4)	22
Total	28/76	8/16	4/24	0/10	0/14	0/8	0/4	0/2	4/22	176
Degree with honours (176 credits)										
DSE	Discipline Specific Electives									
OEC	Open Electives Course									
VOC	Vocational Courses									
SEC	Skill Enhancement Courses									
AEC	Ability Enhancement Courses									
IKS	Indian Knowledge System									
VAC	Value Added Courses									
OJT	On the Job Training									
FP	Field Project									
CC	Co Curricular Activities									
CE	Community Engagement									
MEC	Modern English Language									
MIL	Modern Indian Language									

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