

Vivekanand College, Kolhapur (Empowered Autonomous)
Department of B Sc. Computer Science Entire
DSC Major

Level	Sem	1-Major		2-Minor	3-OE	4-VSC	5-AEC, VEC, IKS			6-OJT, FP, CEP, CC, RP			Total Credits
		Major		Minor	IDC/MDC/ OE/GE	VSC	AEC (Language)	Value Education Courses (VEC)	IKS	CC	Summer Internship /Field Project/OJT	Research Project / Dissertation	
		DSC	DSE	MIN	OEC								
4.5	I	DSC-I (2) Computer Science-I Introduction to Computers-I DSC-II (2) Computer Science -II Programming in C-I Practical-I (2)		MIN-I (2) Electronics-I Analogue Electronics-I MIN-II (2) Electronics-II Digital Electronics-I Practical-I (2)	OE-I (2) Foundational Maths OE-II (2) Descriptive Statistics -I Practical-I (M)- (1) Practical-I (S) - (1)		Business Communication-I (2)	-	IKS(2) Introduction to IKS			-	
	Credits	4+2=6		4+2=6	4+2=6		2		2			-	22
	II	DSC-III (2) Computer Science -III Introduction to Computers-II DSC-IV (2) Computer Science -IV Programming in C-II Practical-I (2)		MIN-III (2) Electronics-III Instrumentation MIN-IV (2) Electronics-IV Digital Electronics-II Practical-I (2)	OE-III (2) Operational Research OE-IV (2) Descriptive Statistics - II Practical-I (M)- (1) Practical-I (S) - (1)	VSC-I (2) Introduction to Excel	Business Communication -II (2)					-	
	Credits	4+2=6		4+2=6	4+2=6	2	2					-	22
	1 st year Cumulative Credits	12		12	12	2	4		2				44
Exit option: Award of UG Certificate in Major with 40-44 credits and an additional 4 credits core NSQF course/ Internship OR Continue with Major and Minor													
5.0	III	DSC-V (2) Computer Science -V OOP with C++ DSC-VI (2) Computer Science -VI RDBMS with MySQL-I Practical-II (4)		MIN-V (2) Electronics-V 8051 Microcontroller MIN-VI(2) Electronics-VI Introduction to IOT Practical-II (2)		VSC-II (2) Introduction to R	Business Communication-III (2)	VEC-I (2) Democracy, Election and Good Governance(DE GG) VEC-II (2) Environmental Sc.					
	Credits	4+4=8		4+2=6		2	2	4				-	22
	IV	DSC-VII (2) Computer Science -VII Data Structure DSC-VIII (2)		MIN-VII (2) Electronics-VII Raspberry Pi MIN-VIII (2)		VSC-III (2) Statistical methods using r	Business Communication-IV (2)	VEC-III (2) Environmental Science		CC (2)			

		Computer Science -VIII RDBMS with MySQL-II Practical-II (4)		Electronics-VIII Computer Networks Practical-II (2)									
	Credits	4+4=8		4+2=6		2	2	2		2		-	22
	2 nd year Cumulative Credits	16		12		4	4	6		2			44
Exit option: Award of UG Diploma in Major and Minor with 80-88 credits and an additional 4 credits core NSQF course/ Internship OR Continue with Major and Minor													
5.5	V	DSC-IX (2) Computer Science -IX Operating System DSC-X (2) Computer Science -X Core Java DSC-XI (2) Computer Science -XI C# programming DSC-XII (2) Computer Science -XII PHP Programming Practical-III (8)	DSE- I (2) Comp. Science Software Engineering with UML (2) OR E-Commerce (2)		-	VSC-IV (2) Statistical methods using Minitab		-		-	FP (2)	-	
	Credits	8+8=16	2+0=2			2		-			2		22
	VI	DSC- XIII (2) Computer Science - XIV Linux OS DSC- XIV (2) Computer Science XV Advanced Java DSC- XV (2) Computer Science - XVI Advanced C# DSC- XVI (2) Computer Science-XVII Android Programming Practical-III (8)	DSE-II (2) Comp. Science Artificial Intelligence (2) OR Data Mining (2)		-	VSC-V (2) Statistical methods using Python		-		-	OJT (2)	-	
	Credits	8+8=16	2+0=2			2		-			2		22
	3 rd year cumulative Credits	16+16=32	4			4					4		44
	Total	60/60 Major	4 DSE	24/24 Minor	12/9 IDC/MDC/ OE/GE	10/9 SEC	8/8 AEC	6/6 VEC	2/2 IKS	2/2 CC	4/4 FP+OJT	-	132/ 132
Exit option: Award of UG Degree in Major with 120-132 credits OR Continue with Major and Minor													

Abbr: DSC- Discipline Specific Core, DSE- Discipline Specific Elective, MIN-Minor, OEL- Open Elective, IDC: Inter-Disciplinary Course
MDC: Multi-Disciplinary Course, GE: Generic Elective, SEC- Skill Enhancement Course, VSC: Vocational Skill Course, AEC- Ability
Enhancement Course, VEC- Value Education Course, OJT: On-Job Training, FP: Field Project, CEP: Community Engagement Programme,
CC: Co-curricular Courses, RP: Research Project