

DAYANANDA SAGAR UNIVERSITY

SCHOOL OF ENGINEERING



**SCHEME & SYLLABUS
FOR
B.VOC COMPUTER ENGINEERING &IT – 2020
COMPUTER SCIENCE & ENGINEERING
(CSE)
(WITH EFFECT FROM 2020-21)
(I to VI SEMESTERS)**

SCHEME - B.Voc – 2020-21 ONWARDS**I SEM - Computer engineering and IT**

S L	PROGRA M CODE	COURSE CODE	COURSE TITLE	CR / AU	SCHEME OF TEACHING					PREREQUISITE	
					L	T	P	S/P	C	SEM	COURSE CODE
1	POO7	20VC101	ENGLISH	CR	2	-	-	-	2	*	***
2	POO7	20VC102	MATHEMATICS - I	CR	3	-	-	-	3	*	***
3	POO7	20VC103	APPLIED SCIENCE	CR	2	-	-	-	2	*	***
4	POO7	20VC104	PROBLEM SOLVING TECHNIQUES	CR	3	-	-	-	3	*	***
5	POO7	20VC105	BASICS OF ELECTRICAL & ELECTRONICS	CR	2	-	-	-	2	*	***
6	POO7	20VC106	BASICS OF ELECTRICAL & ELECTRONICS LAB	CR	-	-	12	-	6	*	***
7	POO7	20VC107	BASICS OF COMPUTER LAB	CR	-	-	12	-	6	*	***
8	POO7	20VC108	PC HARDWARE LAB	CR	-	-	12	-	6	*	***
					12	-	36	-	30		

CR – CREDIT, AU – AUDIT, L – LECTURE, T – TUTORIAL, P – PRACTICAL, S/P – SEMINAR/PROJECT, C – NO. OF CREDITS

SCHEME - B.Voc – 2020-21 ONWARDS**II SEM - Computer engineering and IT**

S L	PROGRA M CODE	COURSE CODE	COURSE TITLE	CR / AU	SCHEME OF TEACHING					PREREQUISITE	
					L	T	P	S/P	C	SEM	COURSE CODE
1	POO7	20VC201	COMPUTER NETWORKS - I	CR	2	-	-	-	2	*	***
2	POO7	20VC202	PYTHON	CR	3	-	-	-	3	*	***
3	POO7	20VC203	MATHEMATICS – II	CR	2	-	-	-	2	*	***
4	POO7	20VC204	C- PROGRAMMING	CR	2	-	-	-	2	*	***
5	POO7	20VC205	DATA BASE	CR	3	-	-	-	3	*	***
6	POO7	20VC206	SQL SERVER 2008 LAB	CR	-	-	12	-	6	*	***
7	POO7	20VC207	C – PROGRAMMING & PYTHON LAB	CR	-	-	12	-	6	*	***
8	POO7	20VC208	NETWORKING LAB	CR	-	-	12	-	6	*	***
					12	-	36	-	30		

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SCHEME - B.Voc – 2020-21 ONWARDS

III SEM - Computer engineering and IT

S L	PROGRA M CODE	COURSE CODE	COURSE TITLE	CR / AU	SCHEME OF TEACHING					PREREQUISITE	
					L	T	P	S/P	C	SEM	COURSE CODE
1	POO7	20VC301	DATA STRUCTURES WITH C	CR	2	-	-	-	2	*	***
2	POO7	20VC302	OOP'S WITH C++	CR	2	-	-	-	2	*	***
3	POO7	20VC303	COMPUTER NETWORKS-II	CR	2	-	-	-	1	*	***
4	POO7	20VC304	MICROPROCESSOR & MICRO CONTROLLER	CR	2	-	-	-	1	*	***
5	POO7	20VC305	OPERATING SYSTEM	CR	2	-	-	-	2	*	***
6	POO7	20VC306	COMPUTER ORGANIZATION	CR	2	-	-	-	2	*	***
7	POO7	20VC307	OOP'S WITH C++ LAB	CR	-	-	10	-	5	*	***
8	POO7	20VC308	DATA STRUCTURES WITH C LAB	CR	-	-	08	-	4	*	***
9	POO7	20VC309	COMPUTER NETWORKS-II LAB	CR	-	-	08	-	4	*	***
10	POO7	20VC310	MICROPROCESSOR & MICRO CONTROLLER LAB	CR	-	-	10	-	5	*	***
		20AU0004	CONSTITUTION OF INDIA AND ETHICS	AU	-	-	-	-	-	*	***
					12	-	36	-	30		

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SCHEME - B.Voc – 2020-21 ONWARDS

IV SEM - Computer engineering and IT

S L	PROGRA M CODE	COURSE CODE	COURSE TITLE	CR / AU	SCHEME OF TEACHING					PREREQUISITE	
					L	T	P	S/P	C	SEM	COURSE CODE
1	POO7	20VC401	SOFTWARE ENGINEERING	CR	2	-	-	-	2	*	***
2	POO7	20VC402	JAVA PROGRAMMING	CR	2	-	-	-	2	*	***
3	POO7	20VC403	WINDOWS SERVER ADMINISTRATION & LINUX SERVER ADMINISTRATION	CR	2	-	-	-	2	*	***
4	POO7	20VC404	IOT	CR	2	-	-	-	2	*	***
5	POO7	20VC405	WEB PROGRAMMING (JAVASCRIPT, PERL, PHP, PYTHON)	CR	2	-	-	-	2	*	***
6	POO7	20VC406	DESIGN AND ANALYSIS OF ALGORITHMS	CR	2	-	-	-	2	*	***
7	POO7	20VC407	WEB PROGRAMMING (JAVA SCRIPT, PERL, PHP, PYTHON) LAB	CR	-	-	10	-	5	*	***
8	POO7	20VC408	WINDOWS SERVER ADMINISTRATION & LINUX SERVER ADMINISTRATION LAB	CR	-	-	10	-	5	*	***
9	POO7	20VC409	JAVA PROGRAMMING LAB	CR	-	-	08	-	4	*	***
10	POO7	20VC410	IOT LAB	CR	-	-	08	-	4	*	***
11	POO7	21AU0020	KANNADA KALI – I	AU	-	-	-	-	-	*	***
					12	-	36	-	30		

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V SEM - Computer engineering and IT

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					L	T	P	S/P	C	SEM	COURSE CODE
1	POO7	20VC501	CLOUD COMPUTING	CR	2	-	-	-	2	*	***
2	POO7	20VC502	CYBER SECURITY	CR	2	-	-	-	2	*	***
3	POO7	20VC503	SOFTWARE TESTING	CR	2	-	-	-	2	*	***
4	POO7	20VC504	ORGANIZATIONAL BEHAVIOUR AND PROJECT MANAGEMENT	CR	2	-	-	-	2	*	***
5	POO7	20VC505	ITIL DEVOPS(TESTING)	CR	2	-	-	-	2	*	***
6	POO7	20VC506	EMBEDDED SYSTEMS		2	-	-	-	2	*	***
8	POO7	20VC507	AWS CLOUD LAB	CR	-	-	08	-	4	*	***
8	POO7	20VC508	CYBER SECURITY LAB	CR	-	-	08	-	4	*	***
9	POO7	20VC509	SOFTWARE TESTING LAB	CR	-	-	08	-	4	*	***
10	POO7	20VC510	DEVOPS LAB	CR	-	-	08	-	4	*	***
11	POO7	20VC511	DBA LAB	CR	-	-	04	-	2		
		20AU0004	CONSTITUTION OF INDIA AND PROFESSIONAL ETHICS	AU	-	-	-	-	-	*	***
					12	-	36	-	30		

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VI SEM - Computer engineering and IT

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					L	T	P	S/P	C	SEM	COURSE CODE
1	POO7	20VC601	Machine Learning	CR	4	-	-	-	4	*	***
2	POO7	20VC602	PROJECT (INTERNAL/EXTERNAL)	CR	-	-	-	52	26	*	***
					04	-	-	52	30		

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