

DAYANANDA SAGAR UNIVERSITY
SHAVIGE MALLESHWARA HILLS, KUMARASWAMY LAYOUT
BENGALURU-560 111, KARNATAKA.

SCHOOL OF ENGINEERING



SCHEME & SYLLABUS
FOR
BACHELOR OF VOCATION

SPECIALIZATION: IT (DATA ANALYTICS)

(WITH EFFECT FROM 2019-20)

SCHEME - B.VoC – 2019-20 Batch

I SEM – B.VoC IT (Data Analytics)

S L	PROGRAM CODE	COURSE CODE	COURSE TITLE	CR / AU	SCHEME OF TEACHING				
					L	T	P	S/ P	C
1	P006	19VI101	English	CR	02	--	--	--	02
2	P006	19VI102	Mathematics-1	CR	02	02	--	--	03
3	P006	19VI103	Applied Science	CR	02	--	--	--	02
4	P006	19VI104	Problem Solving Techniques	CR	02	--	02	--	03
5	P006	19VI105	Basics of Electrical & Electronics	CR	02	--	--	--	02
6	P006	19VI106	Basics of Electrical & Electronics Lab	CR	--	--	12	--	06
7	P006	19VI107	Basics of Computer Lab	CR	--	--	12	--	06
8	P006	19VI108	Web Programming Lab	CR	--	--	12	--	06
					10	02	38	--	30

CR – Credit, AU – Audit, L – Lecture, T – Tutorial, P – Practical, S/P – Seminar/Project, C – No. of Credits

II SEM – B.VoC IT (Data Analytics)

S L	PROGRAM CODE	COURSE CODE	COURSE TITLE	CR / AU	SCHEME OF TEACHING				
					L	T	P	S/ P	C
1	P006	19VI201	Python	CR	02	--	--	--	02
2	P006	19VI202	JAVA	CR	02	--	--	--	02
3	P006	19VI203	Mathematics - II	CR	02	--	--	--	02
4	P006	19VI204	Data Structures	CR	02	--	--	--	02
5	P006	19VI205	Data Base – I	CR	02	--	--	--	02
6	P006	19VI206	Mathematical Foundation of Data Science & Analytics	CR	02	--	--	--	02
7	P006	19VI207	SQL Server Lab	CR	--	--	12	--	06
8	P006	19VI208	Java Lab	CR	--	--	12	--	06
9	P006	19VI209	Python lab	CR	--	--	12	--	06
10	P006	19VI210	Customer Service Lab	AU	--	--	--	--	--
					12	--	36	--	30

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III SEM – B.VoC IT (Data Analytics)

S L	PROGRAM CODE	COURSE CODE	COURSE TITLE	CR / AU	SCHEME OF TEACHING				
					L	T	P	S/ P	C
1	P006	19VI301	ORACLE & DATA WARE HOUSING	CR	02	--	--	--	02
2	P006	19VI302	COMPUTER NETWORKS	CR	02	--	--	--	02
3	P006	19VI303	SOFTWARE ENGINEERING & SOFTWARE TESTING	CR	02	--	--	--	02
4	P006	19VI304	DESIGN THINKING	CR	01	--	--	--	01
5	P006	19VI305	ARTIFICIAL INTELLIGENCE	CR	02	--	--	--	02
6	P006	19VI306	COMPUTING SYSTEMS	CR	01	--	--	--	01
7	P006	19VI307	STATISTICAL FOUNDATION OF DATA SCIENCE & ANALYTICS	CR	02	--	--	--	02
8	P006	19VI308	COMPUTER NETWORK LAB	CR	--	--	08	--	04
9	P006	19VI309	SOFTWARE TESTING LAB	CR	--	--	08	--	04
10	P006	19VI310	ORACLE LAB	CR	--	--	12	--	06
11	P006	19VI311	ARTIFICIAL INTELLIGENCE LAB	CR	--	--	08	--	04
					12	--	36	--	30

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IV SEM – B.VoC IT (Data Analytics)

S L	PROGRAM CODE	COURSE CODE	COURSE TITLE	CR / AU	SCHEME OF TEACHING				
					L	T	P	S/ P	C
1	P006	19VI401	DYNAMIC WEBSITE	CR	02	--	--	--	02
2	P006	19VI402	R PROGRAMMING	CR	02	--	--	--	02
3	P006	19VI403	INFORMATION SYSTEM & ORGANIZATION	CR	02	--	--	--	02
4	P006	19VI404	ADV. JAVA	CR	02	--	--	--	02
5	P006	19VI405	ENTERPRISE APPLICATIONS - BASICS OF ERP CRM	CR	02	--	--	--	02
6	P006	19VI406	DATA HANDLING AND VISUALIZATION	CR	02	--	--	--	02
7	P006	19VI407	DYNAMIC WEBSITE LAB	CR	--	--	10	--	05
8	P006	19VI408	R PROGRAMMING LAB	CR	--	--	10	--	05
9	P006	19VI409	ADV. JAVA LAB	CR			08		04
10	P006	19VI410	DATA HANDLING AND VISUALIZATION LAB	CR			08		04
					12	--	36	--	30

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SCHEME - B.Voc – 2019-20 ONWARDS

V SEM - IT (Data Analytics)

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	106	19VI501	FULL STACK DEVELOPMENT	CR	2	-	-	-	2	*	***
2	106	19VI502	BUSINESS INTELLIGENCE	CR	2	-	-	-	2	*	***
3	106	19VI503	ENGLISH-TECHNICAL WRITING	CR	2	-	-	-	2	*	***
4	106	19VI504	INFORMATION SYSTEM ANALYSIS	CR	2	-	-	-	2	*	***
5	106	19VI505	PRINCIPLES OF BUSINESS OPERATIONS	CR	2	-	-	-	2	*	***
6	106	19VI506	BIG DATA & ANALYTICS	CR	2	-	-	-	2	*	***
7	106	19VI507	FULL STACK DEVELOPMENT LAB	CR	-	-	10	-	5	*	***
8	106	19VI508	BUSINESS INTELLIGENCE LAB	CR	-	-	04	-	2	*	***
9	106	19VI509	IOT LAB (ARDUINO/RASPBERRY PI, INTEL)	CR	-	-	08	-	4	*	***
10	106	19VI510	BUSINESS IT PROJECT	CR	-	-	14	-	7	*	***
11	106	20AU0004	CONSTITUTION OF INDIA AND PROFESSIONAL ETHICS	AU	-	-	-	-	-	*	***
					12	-	36	-	30		

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SCHEME - B.Voc – 2019-20 ONWARDS

VI SEM - IT (Data Analytics)

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	106	19VI601	Machine Learning	CR	4	-	-	-	4	*	***
2	106	19VI602	PROJECT (INTERNAL/EXTERNAL)	CR	-	-	-	52	26	*	***
3	106	20AU0020	KANNADA KALI – I	AU	-	-	-	-	-	*	***
					04	-	-	52	30		

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