

Vivekanand College, Kolhapur (Empowered Autonomous)

Department of Electronics

Departmental Teaching and Evaluation scheme

Three/Four- Years UG Programme

Department/Subject Specific Core or Major (DSC)

(as per NEP-2020 Guidelines)

First Year Semester-I & II

Sr. No.	Course Abbr.	Course code	Course Name	Teaching Scheme Hours/week		Examination Scheme and Marks				Course Credits
				TH	PR	ESE	CIE	PR	Marks	
Semester-I										
1	DSC-I	DSC03ELE11	Analog Electronics-I	2	-	40	10	-	50	2
2	DSC-II	DSC03ELE12	Digital Electronics-I	2	-	40	10	-	50	2
3	MIN-I	MIN03ELE11	Analog Electronics-I	2	-	40	10	-	50	2
4	MIN-II	MIN03ELE12	Digital Electronics-I	2	-	40	10	-	50	2
5	OEC-I	OEC03ELE11	Circuit Fundamentals-I	2	-	40	10	-	50	2
6	OEC-II	OEC03ELE12	Semiconductor Devices	2	-	40	10	-	50	2
7	IKS-I	IKS03GEC11	Indian Knowledge System	2	-	25	-	-	25	2
8	DSC-PR-I	DSC03ELE19	DSC Electronics Lab-1	-	4	-	-	25	25	2
9	MIN-PR-I	MIN03ELE19	MIN Electronics Lab-1	-	4	-	-	25	25	2
10	OEC-PR-I	OEC03ELE19	OEC Electronics Lab-1	-	4	-	-	25	25	2
Semester –I Total				14	12	265	60	75	400	20
Semester-II										
1	DSC-III	DSC03ELE21	Analog Electronics-II	2	-	40	10	-	50	2
2	DSC-IV	DSC03ELE22	Digital Electronics-II	2	-	40	10	-	50	2
3	MIN-III	MIN03ELE21	Analog Electronics-II	2	-	40	10	-	50	2
4	MIN-IV	MIN03ELE22	Digital Electronics-II	2	-	40	10	-	50	2
5	OEC-III	OEC03ELE21	Circuit Fundamentals-II	2	-	40	10	-	50	2
6	OEC-IV	OEC03ELE22	Semiconductor Devices and Circuits	2	-	40	10	-	50	2
7	VSC-PR-I	VSC03ELE29	Circuit simulation Lab	-	4	-	-	25	25	2
8	DSC-PR-II	DSC03ELE29	DSC Electronics Lab-2	-	4	-	-	25	25	2
9	MIN-PR-II	MIN03ELE29	MIN Electronics Lab-2	-	4	-	-	25	25	2
10	OEC-PR-II	OEC03ELE29	OEC Electronics Lab-2	-	4	-	-	25	25	2
Semester –II Total				12	16	240	60	100	400	20

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Second Year Semester-III & IV

Sr. No.	Course Abbr.	Course code	Course Name	Teaching Scheme Hours/week		Examination Scheme and Marks				Course Credits
				TH	PR	ESE	CIE	PR	Marks	
Semester-III										
1	DSC-V	DSC03ELE31	Electronic Communication System	2	-	40	10	-	50	2
2	DSC-VI	DSC03ELE32	Microprocessor 8085	2	-	40	10	-	50	2
3	MIN-V	MIN03ELE31	Principles of Electronic Communication	2	-	40	10	-	50	2
4	MIN-VI	MIN03ELE32	Architecture of 8051	2	-	40	10	-	50	2
5	VSC-PR-II	VSC03ELE39	PCB Designing Lab	-	4	-	-	25	25	2
6	DSC-PR-III	DSC03ELE39	DSC-Electronics Lab-3	-	8	-	-	50	50	4
7	MIN-PR-III	MIN03ELE39	MIN-Electronics Lab-3	-	4	-	-	25	25	2
Semester –III Total				8	16	160	40	100	300	16
Semester-IV										
1	DSC-VII	DSC03ELE41	Operational Amplifier and Applications	2	-	40	10	-	50	2
2	DSC-VIII	DSC03ELE42	Microcontroller 8051	2	-	40	10	-	50	2
3	MIN-VII	MIN03ELE41	Fundamentals of Operational Amplifier	2	-	40	10	-	50	2
4	MIN-VIII	MIN03ELE42	8051 Microcontroller Interfacing and Embedded C	2	-	40	10	-	50	2
5	VSC-PR-III	VSC03ELE49	Arduino Programming Lab	-	4	-	-	25	25	2
6	DSC-PR-IV	DSC03ELE49	DSC-Electronics Lab-4	-	8	-	-	50	50	4
7	MIN-PR-IV	MIN03ELE49	MIN-Electronics Lab-4	-	4	-	-	25	25	2
Semester –IV Total				8	16	160	40	100	300	16

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Third Year Semester-V & VI

Sr. No.	Course Abbr.	Course code	Course Name	Teaching Scheme Hours/week		Examination Scheme and Marks				Course Credits
				TH	PR	ESE	CIE	PR	Marks	
Semester-V										
1	DSC-IX	DSC03ELE51	Fundamentals of Instrumentation	2	-	40	10	-	50	2
2	DSC-X	DSC03ELE52	8051 Embedded Systems	2	-	40	10	-	50	2
3	DSC-XI	DSC03ELE53	Antenna and Wave Propagation	2	-	40	10	-	50	2
4	DSC-XII	DSC03ELE54	Programmable Logic Controller(PLC)	2	-	40	10	-	50	2
5	DSE-I	DSE03ELE51	Computer Networks	2	-	40	10	-	50	2
		DSE03ELE52	Opto-electronics							
6	VSC-PR-IV	VSC03ELE59	Solar systems Lab	-	4	-	-	25	25	2
7	FP	FPR03ELE51	Field Project		4			50	50	2
8	DSC-PR-V	DSC03ELE59	DSC Electronics Lab-5	-	16	-	-	100	100	8
Semester –V Total				10	24	200	50	175	425	22
Semester-VI										
1	DSC-XIII	DSC03ELE61	Industrial Instrumentation	2	-	40	10	-	50	2
2	DSC-XIV	DSC03ELE62	Advanced Microcontroller	2	-	40	10	-	50	2
3	DSC-XV	DSC03ELE63	Power Electronics	2	-	40	10	-	50	2
4	DSC-XVI	DSC03ELE64	Internet of Things (IoT)	2	-	40	10	-	50	2
5	DSE-II	DSE03ELE61	Cellular and Mobile Communication	2	-	40	10	-	50	2
		DSE03ELE62	FPGA & VHDL Programming							
6	VSC-PR-V	VSC03ELE69	IoT Lab	-	4	-	-	25	25	2
7	OJT	OJT03ELE61	On Job Training		4			50	50	2
8	DSC-PR-VI	DSC03ELE69	DSC Electronics Lab-6	-	16	-	-	100	100	8
Semester –VI Total				10	24	200	50	175	425	22

Abbreviations: TH-Theory, PR-Practical, PRO- Project, ESE- End Semester Examination, CIE-Continuous Internal Examination

Note: Minimum passing for 10 marks Internal evaluation = 04 marks
 Minimum passing for 40 marks Theory paper = 16 marks
 Minimum passing for 25 marks Practical = 10 marks
 Minimum passing for 50 marks Practical/FP/OJT = 20 marks
 Minimum passing for 100 marks Practical/FP = 40 marks

Passing percentage for Democracy, Election and Good Governance (DEGG) and Environmental Studies papers should be 40%

Separate passing for each Head - ESE, CIE and Practicals