Department of Electronics

Content Addressing Cross-Cutting Issues

Sr. No.	Course Code	Course Titles	Year of Introduction	Professional Ethics	Gender	Human Values	Environment and Sustainability	Sustainable Development Goals	NEP-2020
1	DSC-1005A1	NetworkAnalysis	2018-19	design and analysis of networks					
2	DSC-1005A2	Analog Electronics	2018-19				contribute to energy efficiency		
3	DSC-1005B1	Linear Integrated Circuis	2018-19			involve designing circuits that prioritize user safety, health, and well-being.			
4	DSC-1005B2	Digital Integrated Circuits	2018-19				Sequential logic: Efficient memory management		
5	DSC 1005C1	Electronics Communication	2019-20	privacy, data protection		Block of communication system	Communication systems can contribute to need for physical travel that lowers carbon emission		
6	DSC 1005C2	Microprocessor 8085	2019-20				Interrupts in 8085		
7	DSC 1005D1	Advance Communication	2019-20	privacy, data protection		development and deployment of communication technologies.		advanced communication infrastructure	
8	DSC 1005D2	Microcontroller 8051	2019-20	give emphasis to ethical Programming and Practices			8051 based system development	8051 based system development	

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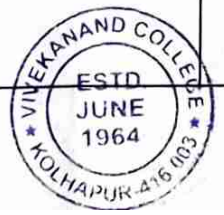
9	DSE 1005E1	Linear Integrated Circuits, 8051 Microcontroller Interfacing and Embedded C	2020-21	emphasize ethical Programming and Practices			Timers and I/O Programming	8051 based system development	
10	DSE 1005E2	Instrumentation, Antenna and Wave Propagation	2020-21	accuracy and reliability of measurement and control systems			Use of efficient Antenna		
11	SEC-3	Renewable energy	2020-21	responsible use of resources		clean and affordable energy	Use of sources such as sunlight, wind, and water without depleting finite resources.		
12	DSE 1005F1	Industrial Process Control, PLC Programming and Advanced Microcontroller and Embedded System	2020-21	ethical decision-making in the design and operation of control systems			Promoting Energy-Efficient programming	system development	
13	DSE 1005F2	Power Electronics and FPGA & VHDL Programming	2020-21				Optimizing logic circuits, Clock Management Reduction of Power losses		
14	SEC-4	Introduction to Arduino and IoT	2020-21	coding, data handling, and project development			Arduino projects.	Arduino projects related to environmental parameters	
15	DSC-1005A1	Analog Electronics-I	2021-22				contribute to energy efficiency		
16	DSC-1005A2	Digital Electronics-I	2021-22				Power efficiency		
17	DSC-1005B1	Analog Electronics-II	2021-22				Feedback in amplifiers are relevant to energy efficiency		

18	DSC-1005B2	Digital Electronics-II	2021-22				Sequential logic: Efficient memory management		
19	DSC 1005C1	Electronic Communication	2022-23	privacy, data protection		Block of communication system	Communication systems can contribute to need for physical travel that lowers carbon emission		
20	DSC 1005C2	Microprocessor 8085	2022-23	ethical Programming and Practices			Interrupts in 8085		
21	DSC 1005D1	Operational Amplifier	2022-23	safety and reliability of circuits					
22	DSC 1005D2	Microcontroller 8051	2022-23	ethical Programming and Practices			8051 based system development	8051 based system development	
23	SEC-1	Electronic Circuit design and Simulation using Proteus	2022-23	Circuit designing				system development	
24	SEC-2	PCB (Printed circuit board) Designing and fabrication	2022-23	Designing and fabrication					
25	DSC03ELE11	Analog Electronics-I	2023-24	design and analysis of networks			contribute to energy efficiency		
26	DSC03ELE12	Digital Electronics-I	2023-24				Power efficiency		
27	MIN03ELE11	Analog Electronics-I	2023-24	design and analysis of networks			contribute to energy efficiency		
28	MIN03ELE12	Digital Electronics-I	2023-24				Power efficiency		
29	OEC03ELE11	Circuit Fundamentals-I	2023-24	design and analysis of networks					



30	OEC03ELE12	Semiconductor Devices	2023-24				Low power system design		
31	IKS03GEC11	Indian Knowledge System	2023-24	data collection, analysis	ensuring equal opportunities	Emphasize the societal impact of knowledge creation and dissemination	ecological impact	Encourage interdisciplinary research	
32	DSC03ELE21	Analog Electronics-II	2023-24				Feedback in amplifiers are relevant to energy efficiency		
33	DSC03ELE22	Digital Electronics-II	2023-24				Sequential logic: Efficient memory management		
34	MIN03ELE21	Analog Electronics-II	2023-24				Feedback in amplifiers are relevant to energy efficiency		
35	MIN03ELE22	Digital Electronics-II	2023-24				Sequential logic: Efficient memory management		
36	OEC03ELE21	Circuit Fundamentals-II	2023-24	design and analysis					Fundamentals of Electronics
37	OEC03ELE22	Semiconductor Devices and Circuits	2023-24				Low power system design		Fundamentals of Electronics
38	SEC03ELE21	Circuits Simulation Lab	2023-24	Circuit designing				system development	system development
39	DSE 1005E1	Fundamentals of Instrumentation,	2023-24				Address environmental Impact promoting sustainable practices in the design use and disposal of instrumentation tools		
40	DSE 1005E2	8051 Microcontroller	2023-24	ethical Programming and Practices			8051 based system development	8051 based system development	
41	DSE 1005E3	Antenna and Wave Propagation	2023-24				Antenna Deployment can be environmentally friendly and energy	Optimizing antenna to operate efficiently can contribute to reducing	

							efficient	energy consumption in communication system	
42	DSE 1005E4	Industrial Process Control	2023-24	ethical decision-making in the design and operation of control systems					
43	SEC- 3	Computer Networks	2023-24	privacy, data protection					
44	DSE 1005F1	Industrial Instrumentation	2023-24	privacy, data protection			Address environmental Impact promoting sustainable practices in the design use and disposal of instrumentation tools		
45	DSE 1005F2	Advanced Microcontroller	2023-24	design, simulation, and testing of electronic circuits.					
46	DSE 1005F3	Power Electronics	2023-24				Reduce the power losses		
47	DSE 1005F4	Internet of Things (IoT)	2023-24	coding, data handling, and project development				project development	
48	SEC-4	Embedded System Design using Arduino	2023-24	ethical Programming and Practices					

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Dr. C. [illegible]
Head
Department of Electronics
Vivekanand College, Kolhapur