



CHHATTISGARH SWAMI VIVEKANAND TECHNICAL UNIVERSITY, BHILAI
Syllabus Index Section - II (Specialization)

S.No	Discipline	Specialization
1	Applied Chemistry	Reaction dynamics and surface chemistry
		Organic Chemistry
		Environmental Chemistry
2	Applied Mathematics	Celesial Mechanics
		Fuzzy Logic / Game Theory/Algebra
		Fixed Point Theory and Application
3	Applied Physics	Biomedical Physics
		Nano Science & Applications
		Luminescence & Applications
		Solid State Ionics & Material Science
4	Civil Engg.	Structural Engineering
		Highways Engineering
		Environmental Engineering
		Geotechnical Engineering
		Water Resources / Irrigation Engineering
5	Computer Application	Artificial Intelligence & Soft Computer
		Data Mining & Knowledge Discovery
		Discrete Structure
		Software Engg.
		Sementic Web & Linked Dta
6	Computer Science & Engg.	Artificial Intelligence and Soft-computing
		Data Mining and Big Data
		Digital Image Processing and Computer Vision
		Advanced Computer Network and Security
		Simulation and Modeling
7	Electrical and Electronics Engg.	Power Systems
		Electrical Machines
		Control Systems & Instrumentation
		Power Electronics & Electric Drive
		Soft Computing
8	Electrical Engineering	Advanced Signal Processing and Applications
		Power Systems
		Electrical Machines
		Control Systems & Instrumentation
		Power Electronics & Electric Drive
9	Electronics and Instrumentation	Soft Computing
		Process Instrumentation and Process Control
		Industrial Instrumentation and Automation
		Process Modeling and Simulation
		Biomedical Signal Processing
		Transducer Design and Optical Instrumentation



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S.No	Discipline	Specialization
		Soft Computing
10	Electronics and Telec. Engg.	Electronics
		Communication Systems
		Digital System Design & VLSI Design
		Signal and Image Processing
		Microwave Engineering
		Soft Computing
11	Information Technology	Information Security and Coding
		Mobile and Pervasive Computing
		Data Science for Internet of Things
		Pattern Recognition, Image Processing and Data Mining
		Semantic Web and Linked data
		Remote Sensing and GIS
12	Management	Behavioural Science
		Entrepreneurship
		Finance Management
		Human Resource Management
		Marketing Management
		Operation and Production Management
13	Mechanical Engineering	Design Stream
		Thermal Stream
		Production Stream
14	Biotechnology	Bioinformatics
		Microbiology
15	Biomedical Engineering	Sensors and Bioinstrumentation
		Human Anatomy and Physiology
		Biomechanics
		Medical Imaging Systems
		Biomaterials
		Bioinformatics
16	Pharmacy	Pharmaceutics
		Pharmacognosy
		Pharmacology
		Quality Assurance
		Pharmaceutical Chemistry
17	Environmental Engineering	Water Pollution Mitigation & Management
		Wastewater & Solid Waste Management
18	Water Resource Engineering	Surface water and Groundwater Hydrology
		Remote Sensing geographical information system (GIS) and Open Channel Flow
19	Humanities	Humanities



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S.No	Discipline	Specialization
20	Architecture	Contemporary world architecture, related theories and trends