

SARDAR PATEL UNIVERSITY
B.Sc. Semester: III
(Under Choice Based Credit Scheme)
Syllabus with Effect from: 2022-23

Course Type	Course Code	Name Of Course	T /P	Credit	Contact Hours Per Week	Exam Duration in hrs	Component of Marks		
							Internal	External	Total
Ability Enhancement compulsory Course	US03AENG51	Functional English	P	2	2	2	==	50	50
Core Course (Any Two Group)									
Chemistry	US03CCHE51	Inorganic Chemistry	T	4	4	3	30	70	100
	US03CCHE52	Physical Chemistry	T	4	4	3	30	70	100
	US03CCHE53	Practicals (Prac. I & Prac. II)	P	4	8	6	==	100	100
Electronics	US03CELE51	Electronics Devices	T	4	4	3	30	70	100
	US03CELE52	Instrumentation and Digital Electronics	T	4	4	3	30	70	100
	US03CELE53	Practicals	P	4	8	4	==	100	100
Physics	US03CPHY51	Optics	T	4	4	3	30	70	100
	US03CPHY52	Solid State Electronics	T	4	4	3	30	70	100
	US03CPHY53	Practicals	P	4	8	4	==	100	100
Mathematics	US03CMTH51	Ordinary Differential Equations	T	4	4	3	30	70	100
	US03CMTH52	Multivariate Calculus	T	4	4	3	30	70	100
	US03CMTH53	Practicals	P	4	8	4	==	100	100
Statistics	US03CSTA51	Descriptive Statistics	T	4	4	3	30	70	100
	US03CSTA52	Elements of Probability Theory	T	4	4	3	30	70	100
	US03CSTA53	Practicals	P	4	8	4	==	100	100

Course Type	Course Code	Name Of Course	T /P	Credit	Contact Hours Per Week	Exam Duration in hrs	Component of Marks		
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Biochemistry	US03CBCH51	Introduction of Biomolecules	T	4	4	3	30	70	100
	US03CBCH52	Biophysical Biochemistry	T	4	4	3	30	70	100
	US03CBCH53	Practicals	P	4	8	4	==	100	100
Biotechnology	US03CBIT51	Fundamentals of Biotechnology	T	4	4	3	30	70	100
	US03CBIT52	Fundamental Microbiology	T	4	4	3	30	70	100
	US03CBIT53	Practicals	P	4	8	4	==	100	100
Botany	US03CBOT51	Phycology, Mycology And Phytopathology	T	4	4	3	30	70	100
	US03CBOT52	Genetics and Bioinformatics	T	4	4	3	30	70	100
	US03CBOT53	Practicals	P	4	8	4	==	100	100
Microbiology	US03CMIC51	Fundamentals of Microbiology - I	T	4	4	3	30	70	100
	US03CMIC52	Introduction to Microbial Physiology	T	4	4	3	30	70	100
	US03CMIC53	Practicals	P	4	8	6	==	100	100
Zoology	US03CZOO51	Invertebrate, Economic Zoology & Toxicology	T	4	4	3	30	70	100
	US03CZOO52	Physiology & Adaptation	T	4	4	3	30	70	100
	US03CZOO53	Practicals	P	4	8	4	==	100	100
Industrial Chemistry (Voc.)	US03CICV51	Chemical Plant Auxiliaries & Manufacturing	T	4	4	3	30	70	100
	US03CICV52	Fundamentals of Organic Chemistry	T	4	4	3	30	70	100
	US03CICV53	Practicals	P	4	8	4	==	100	100

Course Type	Course Code	Name Of Course	T /P	Credit	Contact Hours Per Week	Exam Duration in hrs	Component of Marks		
							Internal	External	Total
Industrial Chemistry	US03CICH51	Chemical Process Principles & Engineering Materials	T	4	4	3	30	70	100
	US03CICH52	Organic Chemistry	T	4	4	3	30	70	100
	US03CICH53	Practicals	P	4	8	4	==	100	100
Computer Science	US03CCSC51	Fundamentals of Computer Programming Using C	T	4	4	3	30	70	100
	US03CCSC52	Web Application Development – I	T	4	4	3	30	70	100
	US03CCSC53	Practicals	P	4	8	4	==	100	100
Electronics & Communication	US03CELC51	Signal Processing	T	4	4	3	30	70	100
	US03CELC52	Analog Communication	T	4	4	3	30	70	100
	US03CELC53	Practicals	P	4	8	4	==	100	100

Skill -Enhancement Elective Course (Any One Subject)						
Course Code	Name Of Course	T /P	Credit	Contact Hours Per Week	Exam Duration in hrs	Total Marks
US03SSTA51	Foundation of Statistics-I	T	2	2	2	50
US03SSTA52	Operations Research-I	T	2	2	2	50
US03SSTA53	Biostatistics - I	T	2	2	2	50
US03SICV51	Industrial Pollution, Its Control and Safety	T	2	2	2	50
US03SCHE51	Polymer Science-I	T	2	2	2	50
US03SCHE52	Quantitative Methods of Analysis	T	2	2	2	50
US03SCHE53	Pharmaceutical Chemistry : Fundamentals	T	2	2	2	50
US03SMTH51	Number Theory - 1	T	2	2	2	50
US03SMTH52	Graph Theory-I	T	2	2	2	50
US03SMTH53	Mechanics - 1	T	2	2	2	50
US03SNCC51	NCC Army-3	T+P	2	2	2	25+25
US03SPUH51	Public Health	T	2	2	2	50
US03SICT51	Information & Communication Technology-I	T	2	2	2	50
US03SIPD51	Integrated Personality Development	T	2	2	2	50