

Telangana State Council of Higher Education, Govt of Telangana
BSc CBCS Common Core Syllabi for All Universities in Telangana
PROPOSED SCHEME FOR CHOICE BASED CREDIT SYSTEM IN BSc BIOTECHNOLOGY COURSE

FIRST YEAR: SEMESTER-I				
<i>Code</i>	<i>Course title</i>	<i>Course type</i>	<i>HPW</i>	<i>Credits</i>
BS101	Communication	AECC-1	2	2
BS102	English	CC-1A	5	5
BS103	Second language	CC-2A	5	5
BS104	OPTIONAL-I	DSC-1A	4T+2P=6	4+1=5
BS105	OPTIONAL-II	DSC-2A	4T+2P=6	4+1=5
BS106	Optional-III: Cell biology and Genetics	DSC-3A	4T+2P=6	4+1=5
			30	27
FIRST YEAR: SEMESTER-II				
BS201	Environmental Studies	AECC-2	2	2
BS202	English	CC-1B	5	5
BS203	Second language	CC-2B	5	5
BS204	OPTIONAL-I	DSC-1B	4T+2P=6	4+1=5
BS205	OPTIONAL-II	DSC-2B	4T+2P=6	4+1=5
BS206	Optional-III: Nucleic Acids and Bioinformatics	DSC-3B	4T+2P=6	4+1=5
			30	27
SECOND YEAR: SEMESTER-III				
BS301	Enzyme Technology	SEC-1	2	2
BS302	English	CC-1C	5	5
BS303	Second language	CC-2C	5	5
BS304	OPTIONAL-I	DSC-1C	4T+2P=6	4+1=5
BS305	OPTIONAL-II	DSC-2C	4T+2P=6	4+1=5
BS306	Optional-III: Biochemistry and Biostatistics	DSC-3C	4T+2P=6	4+1=5
			30	27

SECOND YEAR: SEMESTER-IV

BS401	Immunotechnology	SEC-2	2	2
BS402	English	CC-1D	5	5
BS403	Second language	CC-2D	5	5
BS404	OPTIONAL-I	DSC-1D	4T+2P=6	4+1=5
BS405	OPTIONAL-II	DSC-2D	4T+2P=6	4+1=5
BS406	Optional-III: Microbiology and Immunology	DSC-3D	4T+2P=6	4+1=5
			30	27

THIRD YEAR: SEMESTER-V

BS501	E/F	SEC-3	2	2
BS502	Food Technology	GE-1	2T	2
BS503	OPTIONAL-I	DSC-1E	3T+2P=5	3+1=4
BS504	OPTIONAL-II	DSC-2E	3T+2P=5	3+1=4
BS505	Molecular Biology and r-DNA Technology	DSC-3E	3T+2P=5	3+1=4
BS506	OPTIONAL-I A/B/C	DSE-1E	3T+2P=5	3+1=4
BS507	OPTIONAL-II A/B/C	DSE-2E	3T+2P=5	3+1=4
BS508A	Plant Biotechnology	DSE-3E	3T+2P=5	3+1=4
BS508B	Medical Biotechnology			
			34	28

THIRD YEAR: SEMESTER -VI

BS601	G/H	SEC-4	2	2
BS602	Biotechnology Perspectives	GE-2	2T	2
BS603	OPTIONAL-I	DSC-1F	3T+2P=5	3+1=4
BS604	OPTIONAL-II	DSC-2F	3T+2P=5	3+1=4
BS605	Microbial Technology	DSC-3F	3T+2P=5	3+1=4
BS606	OPTIONAL-I A/B/C	DSE-1F	3T+2P=5	3+1=4
BS607	OPTIONAL-II A/B/C	DSE-2F	3T+2P=5	3+1=4
BS608A	Animal Biotechnology	DSE-3F	3T+2P=5	3+1=4
BS608B	Environmental Biotechnology and Biodiversity			
			34	28
	TOTAL CREDITS			164

***Optional III BIOTECHNOLOGY**

AECC: Ability Enhancement Compulsory Course; SEC: Skill Enhancement Course; DSC: Discipline Specific Course; DSE: Discipline Specific Elective; GE: Generic Elective

B.Sc. BOTANY I&II Year, CBCS Syllabus
Telangana State Council of Higher Education, Govt. of Telangana B.Sc., CBCS Common Core Syllabi for all Universities in
Telangana
PROPOSED SCHEME FOR
CHOICE BASED CREDIT SYSTEM IN B.Sc., BOTANY

FIRST YEAR

SEMSTER-I

CODE	COURSE TITLE	COURSE TYPE	HPW	CREDITS
BS 101	Environmental studies	AECC-1	2	2
BS 102	English	CC-1A	5	5
BS 103	Second Language	CC-2A	5	5
BS 104	Optional-I Botany-I Microbial Diversity of Lower Plants	DSC-1A	4T+2P=6	4+1=5
BS 105	Optional-II	DSC-2A	4T+2P=6	4+1=5
BS 106	Optional-III	DSC-1A	4T+2P=6	4+1=5
Total Credits				27

SEMSTER-II

CODE	COURSE TITLE	COURSE TYPE	HPW	CREDITS
BS 201	Gender Sensitization	AECC-2	2	2
BS 202	English	CC-1B	5	5
BS 203	Second Language	CC-2B	5	5
BS 204	Optional-I Botany-II Bryophytes, Pteridophytes, Gymnosperms and Palaeobotany	DSC-1B	4T+2P=6	4+1=5
BS 205	Optional-II	DSC-2B	4T+2P=6	4+1=5
BS 206	Optional-III	DSC-3B	4T+2P=6	4+1=5
Total Credits				27

SECOND YEAR

SEMSTER-III

CODE	COURSE TITLE	COURSE TYPE	HPW	CREDITS
BS 301	SEC-I: Biofertilizers	SEC-1	2	2
BS 302	English	CC-1C	5	5
BS 303	Second language	CC-2C	5	5
BS 304	Optional-I BOTANY-III Taxonomy of Angiosperms and Medicinal Botany	DSC-1C	4T+2P=6	4+1=5
BS 305	Optional-II	DSC-2C	4T+2P=6	4+1=5
BS 306	Optional-III	DSC-3C	4T+2P=6	4+1=5
Total Credits				27

SEMSTER-IV

CODE	COURSE TITLE	COURSE TYPE	HPW	CREDITS
BS 401	SEC-II: Herbal Technology	SEC-2	2	2
BS 402	English	CC-1D	5	5
BS 403	Second language	CC-2D	5	5
BS 404	Optional- I BOTANY-IV Plant Anatomy, Embryology and Palynology	DSC-1D	4T+2P=6	4+1=5
BS 405	Optional II	DSC-2D	4T+2P=6	4+1=5
BS 406	Optional III	DSC-3D	4T+2P=6	4+1=5
Total Credits				27

AECC: Ability Enhancement Compulsory Course, SEC: Skill Enhancement Course, DSC: Discipline Specific Course, DSE: Discipline Specific Elective, GE: Generic Elective

**TELANGANA STATE COUNCIL OF HIGHER EDUCATION
PROPOSED CBCS COMMON CORE SCHEME FOR B.S.C. COURSE
OPTIONAL -1: BOTANY**

CODE	PAPER TITLE	Course Type	HPW	Credits
FIRST YEAR SEMESTER - I				
BS 104	PAPER-I : Microbial Diversity and Lower Plants	DSC-1A	4T+2P=6	4+1=5
FIRST YEAR SEMESTER - II				
BS 204	PAPER-II: Gymnosperms, Taxonomy of Angiosperms and Ecology	DSC-1B	4T+2P=6	4+1=5
SECOND YEAR SEMESTER - III				
BS 301	SEC-1: Nursery and Gardening	SEC-1	2	2
BS 302	SEC-2: Biofertilizers and Organic Farming	SEC-2	2	2
BS 304	PAPER-III: Plant Anatomy and Embryology	DSC-1C	4T+2P=6	4+1=5
SECOND YEAR SEMESTER - IV				
BS 401	SEC-3: Greenhouse Technology	SEC-3	2	2
BS 402	SEC-4: Mushroom Culture Technology	SEC-4	2	2
BS 404	PAPER-IV : Cell Biology, Genetics & Plant Physiology	DSC-1D	4T+2P=6	4+1=5
THIRD YEAR SEMESTER - V				
BS 501	GE-1: Industrial Microbiology	GE-1	4T	4
BS 502	DSE -1A: Biodiversity & Conservation DSE -1B: Economic Botany DSE -1C: Seed Technology	DSE-1A / DSE-1B / DSE-1C	4+2	4+1
THIRD YEAR SEMESTER - VI				
BS 601	DSE-3: Project	PROJECT	4	4
BS 602	DSE -2A: Plant Molecular Biology DSE -2B: Tissue Culture and Biotechnology DSE -2C: Analytical Techniques in Plant Sciences	DSE-2A / DSE-2B / DSE-5E	4T+2P=6	4+1=5

AECC: Ability Enhancement Compulsory Course, **SEC:** Skill Enhancement Course, **GE:** Generic Elective, **DSC:** Discipline Specific Core, **DSE:** Discipline Specific Elective.

Telangana State Council of Higher Education, Govt. of Telangana B.Sc., CBCS Com
Core Syllabi for all Universities in Telangana
PROPOSED SCHEME FOR CHOICE BASED CREDIT SYSTEM IN
B.Sc., Chemistry from 2019-2020

FIRST YEAR- SEMESTER I

CODE	COURSE TITLE	COURSE TYPE	HPW	CREDI
BS 101	Ability Enhancement Compulsory Course AECC-1	ES	2	2
BS 102	English	CC-1A	4	4
BS 103	Second language	CC-2A	4	4
BS 104	Optional I	DSC-1A	4T+3P=7	4+1=
BS 105	Optional II	DSC-2A	4T+3P=7	4+1=
BS 106	Optional III- Chemistry - I	DSC-3A	4T } 3P } = 7	4 } 1 }
	Laboratory Course - I (Qualitative Analysis - Semi Micro Analysis of Mixtures)			
Total Credits			31	25

FIRST YEAR- SEMSTER II

BS 201	Ability Enhancement Compulsory Course AECC-2	BCS	2	2
BS 202	English	CC-1B	4	4
BS 203	Second language	CC-2B	4	4
BS 204	Optional I	DSC-1B	4T+3P=7	4+1=
BS 205	Optional II	DSC-2B	4T+3P=7	4+1=
BS 206	Optional III- Chemistry - II	DSC-3B	4T } 3P } = 7	4 } 1 }
	Laboratory Course - II (Quantitative Analysis - Titrations)			
Total Credits			31	25

SECOND YEAR- SEMSTER III

BS 301	i) Safety Rules in Chemistry Laboratory and Lab Reagents	SEC-1	2	2
	ii) Remedial methods for pollution, drinking water and Soil fertility	SEC-2	2	2
BS 302	English	CC-1C	3	3
BS 303	Second language	CC-2C	3	3
BS 304	Optional I	DSC-1C	4T+3P=7	4+1=
BS 305	Optional II	DSC-2C	4T+3P=7	4+1=
BS 306	Optional III- Chemistry - III	DSC-3C	4T } 3P } = 7	4 } 1 }
	Laboratory Course - III (Synthesis of Organic compounds)			
Total Credits			31	25

SECOND YEAR- SEMSTER IV

BS 401	i) Materials and their Applications	SEC-3	2	2
	ii) Chemistry of Cosmetics and Food Processing	SEC-4*	2	2
BS 402	English	CC-1D	3	3
BS 403	Second language	CC-2D	3	3
BS 404	Optional I	DSC-1D	4T+3P=7	4+1=
BS 405	Optional II	DSC-2D	4T+3P=7	4+1=
BS 406	Optional III- Chemistry - IV	DSC-3D	4T } 3P } = 7	4 } 1 }
	Laboratory Course - IV (Qualitative Analysis of Organic Compounds)			
Total Credits			31	25

* AECC: Ability Enhancement Compulsory Course, SEC: Skill Enhancement Course, DSC: Discipline Specific Course, GE: Generic Elective, ES: Environmental Science, BCS: Basic computer skills.