



SENGUNTHAR ENGINEERING COLLEGE

(AUTONOMOUS)

NAAC Accredited with 'A' Grade,

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956

TIRUCHENGODE- 637 205



CURRICULAM & SYLLABI
B.Tech. PHARMACEUTICAL
TECHNOLOGY
(CHOICE BASED CREDIT SYSTEM)

REGULATIONS - 2023

(For the students admitted in the academic year 2025 – 2026 onwards)



Note: The regulations hereunder are subject to amendments as may be decided by the Academic Council of the Sengunthar Engineering College from time to time. Any or all such amendments will be effective from such date and to such batches of candidates (including those already undergoing the program) as may be decided by the Academic Council.



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DEPARTMENT OF PHARMACEUTICAL TECHNOLOGY

REGULATIONS 2023

CURRICULUM AND SYLLABI

FOR B. Tech. PHARMACEUTICAL TECHNOLOGY

(For the students admitted in the academic year 2025 – 2026 onwards)

FIRST SEMESTER

TO

EIGHTH SEMESTER



Estd. 2001



CURRICULUM AND SYLLABI
FOR B.E. / B.Tech. DEGREE PROGRAMMES
(For the Students admitted in the Academic Year 2025-2026 onwards)
B.Tech. – PHARMACEUTICAL TECHNOLOGY - FIRST SEMESTER

Course Code	Name of the Subject	Category	Periods / Week			Credit	Maximum Marks			
			L	T	P		C	CIA	ESE	TOT
THEORY										
23HST101	Professional English - I	HS	3	0	0	3	40	60	100	
23MAT101	Matrices and Calculus	BS	3	1	0	4	40	60	100	
23PHT101	Engineering Physics	BS	3	0	0	3	40	60	100	
23CYT101	Engineering Chemistry	BS	3	0	0	3	40	60	100	
23HST102	தமிழர் மரபு/Heritage of Tamils	HS	1	0	0	1	40	60	100	
EMBEDDED COURSE										
23GEE101	Programming in C	ES	3	0	2	4	50	50	100	
PRACTICALS										
23PTL101	Reverse Engineering Laboratory	BS	0	0	4	2	60	40	100	
EMPLOYABILITY ENHANCEMENT COURSE										
23EEC101	Soft Skills & Life Skills	EEC	1	0	0	1	100	-	100	
MANDATORY COURSE										
23MDC101	Induction Program (2 Weeks)	MC	-	-	-	-	-	-	-	
TOTAL CREDITS IN SEMESTER - I						21				

HS	:	Humanities and Social Sciences
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MC	:	Mandatory Courses
L	:	Lecture
T	:	Tutorial
P	:	Practical
C	:	Credit Point
CIA	:	Continuous Internal Assessment
ESE	:	End Semester Examination
TOT	:	Total

B.TECH. PHARMACEUTICAL TECHNOLOGY

SECOND SEMESTER

Course Code	Name of the Subject	Category	Periods / Week			Credit	Maximum Marks		
			L	T	P		C	CIA	ESE
THEORY									
23CYT201	Environmental Sciences and Sustainability	HS	3	0	0	3	40	60	100
23PHT201	Advanced physics of materials	BS	3	0	0	3	40	60	100
23MAT201	Statistics and Numerical Methods with Matlab	BS	3	1	0	4	40	60	100
23BPT201	Basics Of Pharmaceutical Technology	BS	3	0	0	3	40	60	100
23HST202	ஐந்தாம் அட்டை தொழில்நுட்பம் / Tamils and Technology	HS	1	0	0	1	40	60	100
EMBEDDED COURSE									
23HSE201	English For Engineers:Theory And Practice	HS	3	0	0	3	50	50	100
23EEE202	Basic Electrical And Electronics Engineering	PC	3	0	0	4	50	50	100
EMPLOYABILITY ENHANCEMENT COURSE									
23EEC201	Foreign Language / Communication Skills	EEC	0	0	4	2	100	-	100
MANDATORY COURSE									
23MDC201	Aptitude S kills	MC	3	0	0	0			
TOTAL CREDITS IN SEMESTER - II						23			

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ESE	:	End Semester Examination
TOT	:	Total

**FOR B.TECH. PHARMACEUTICAL TECHNOLOGY****THIRD SEMESTER**

Course Code	Name of the Subject	Category	Periods / Week			Credit	Maximum Marks		
			L	T	P		C	CIA	ESE
THEORY									
23MAT304	Transform and Partial Differential Equations	BS	3	1	0	4	40	60	100
23PTT302	Basics of Chemical Engineering	PC	2	0	0	3	40	60	100
23PTT303	Pharmaceutical Chemistry	PC	3	0	0	3	40	60	100
23PTT304	Biochemistry	PC	3	0	0	3	40	60	100
23MDT301	Anatomy And Human Physiology	PC	3	0	0	3	40	60	100
EMBEDDED COURSE									
23PTE301	Microbiology	PC	3	0	2	4	40	60	100
PRACTICAL COURSE									
23PTL302	Biochemistry and Physiology Laboratory	PC	0	0	3	2	40	60	100
23EEC301	Professional Development	EEC	0	0	2	1	40	60	100
TOTAL CREDITS IN SEMESTER - III						23			

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ESE	:	End Semester Examination
TOT	:	Total

B.TECH. PHARMACEUTICAL TECHNOLOGY

FOURTH SEMESTER

Course Code	Name of the Subject	Category	Periods / Week			Credit	Maximum Marks		
			L	T	P		C	CIA	ESE
THEORY									
23PTT401	Applied Chemical Engineering Thermodynamics	BS	2	1	0	3	40	60	100
23PTT402	Fluid Mechanics	PC	3	0	0	3	40	60	100
23PTT403	Cell and Molecular Biology	PC	3	0	0	3	40	60	100
23PTT404	Pharmaceutical Analysis	PC	3	0	0	3	40	60	100
23PTT405	Unit Operations in Pharmaceutical Industries	PC	3	1	0	4	40	60	100
EMBEDDED COURSE									
23PTE401	Physical Pharmaceutics	PC	3	0	2	4	40	60	100
PRACTICAL COURSE									
23PTL401	Pharmaceutical Chemistry Laboratory	PC	0	0	3	2	40	60	100
EMPLOYABILITY ENHANCEMENT COURSE									
23EEC401	Online Certification Course	EEC	3	0	0	3	100	-	100
TOTAL CREDITS IN SEMESTER - IV						25			

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TOT	:	Total

B.TECH. PHARMACEUTICAL TECHNOLOGY

FIFTH SEMESTER

Course Code	Name of the Subject	Category	Periods / Week			Credit	Maximum Marks		
			L	T	P		C	CIA	ESE
THEORY									
23PTT501	Pharmaceutical Regulatory Science	PC	3	1	0	4	40	60	100
	Professional Elective - I	PE	3	0	0	3	40	60	100
	Professional Elective - II	PE	3	0	0	3	40	60	100
	Professional Elective - III	PE	3	0	0	3	40	60	100
EMBEDDED COURSE									
23PTE501	Pharmaceutical Dosage Forms- I	PC	3	0	2	4	50	50	100
23PTE502	Pharmacology	PC	3	0	2	4	50	50	100
EMPLOYABILITY ENHANCEMENT COURSE									
23EEC501	Industrial Training	EEC	0	0	4	2	100	-	100
MANDATORY COURSE									
23MDC501	Mandatory Course - I	MC	-	-	-	-	-	-	-
TOTAL CREDITS IN SEMESTER - V						23			

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EEC	:	Employability Enhancement Courses
MC	:	Mandatory Courses
L	:	Lecture
T	:	Tutorial
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C	:	Credit Point
CIA	:	Continuous Internal Assessment
ESE	:	End Semester Examination
TOT	:	Total

B.TECH. PHARMACEUTICAL TECHNOLOGY

SIXTH SEMESTER

Course Code	Name of the Subject	Category	Periods / Week			Credit	Maximum Marks		
			L	T	P		C	CIA	ESE
THEORY									
23PTT601	Biopharmaceutics And Pharmacokinetics	PC	3	0	0	3	40	60	100
	Professional Elective - IV	PE	3	0	0	3	40	60	100
	Professional Elective - V	PE	3	0	0	3	40	60	100
	Open Elective – I / NCC L1 /L3	OE	3	0	0	3	40	60	100
EMBEDDED COURSE									
23PTE601	Heat and Mass Transfer Operations	PC	3	0	2	4	50	50	100
23PTE602	Instrumental Techniques in Drug Analysis	PC	3	0	2	4	50	50	100
EMPLOYABILITY ENHANCEMENT COURSE									
23PTJ601	Project Work – Phase 1	EEC	0	0	8	4	100	-	100
MANDATORY COURSE									
23MDC601	Mandatory Course - II	MC	3	0	0	0	-	-	-
TOTAL CREDITS IN SEMESTER - VI						24			

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OE	:	Open Elective
EEC	:	Employability Enhancement Courses
MC	:	Mandatory Courses
L	:	Lecture
T	:	Tutorial
P	:	Practical
C	:	Credit Point
CIA	:	Continuous Internal Assessment
ESE	:	End Semester Examination
TOT	:	Total

B.TECH. PHARMACEUTICAL TECHNOLOGY

SEVENTH SEMESTER

Course Code	Name of the Subject	Category	Periods / Week			Credi C	Maximum Marks		
			L	T	P		CIA	ESE	TOT
THEORY									
23PTT701	Pharmaceutical Dosage Forms- II	PC	3	0	0	3	40	60	100
23PTT702	Stereochemistry and organic reactions	PC	3	0	0	3	40	60	100
23HST701	Human values and Ethics	HS	3	0	0	3	40	60	100
	Elective - Management	OE	3	0	0	3	40	60	100
	Open Elective – II /NCC-II- L2/L4	OE	3	0	0	3	40	60	100
	Open Elective – III	OE	3	0	0	3	40	60	100
EMPLOYABILITY ENHANCEMENT COURSE									
23PTJ701	Project Work –Phase II	EEC	0	0	0	4	40	60	100
TOTAL CREDITS IN SEMESTER – VII						22			

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PC	:	Professional Core
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OE	:	Open Elective
EEC	:	Employability Enhancement Courses
MC	:	Mandatory Courses
L	:	Lecture
T	:	Tutorial
P	:	Practical
C	:	Credit Point
CIA	:	Continuous Internal Assessment
ESE	:	End Semester Examination
TOT	:	Total

B.TECH. PHARMACEUTICAL TECHNOLOGY

EIGHTH SEMESTER

Course Code	Name of the Subject	Category	Periods / Week			Credit	Maximum Marks		
			L	T	P		C	CIA	ESE
EMPLOYABILITY ENHANCEMENT COURSE									
23EEC801	Intenship	EEC	0	0	4	2	60	40	100
23PTJ801	Product Development	EEC	0	0	12	6	100	-	100
TOTAL CREDITS IN SEMESTER – VIII/VII						08			

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TOT	:	Total

LIST OF HUMANITIES AND SOCIAL SCIENCES

Course Code	Name of the Subject	Category	Periods / Week			Credit	Maximum Marks		
			L	T	P		C	CIA	ESE
23HST101	Professional English	HS	3	0	0	3	40	60	100
23HST102	தமிழர்மரபு /Heritage of Tamils	HS	1	0	0	1	40	60	100
23HSE201	English for Engineers: Theory and Practice	HS	3	0	2	4	50	50	100
23HST202	தமிழரும் தொழில்நுட்பமும் / Tamils and Technology	HS	1	0	0	1	40	60	100
23HST701	Human Values and Ethics	HS	3	0	0	3	40	60	100

LIST OF BASIC SCIENCES

Course Code	Name of the Subject	Category	Periods / Week			Credit	Maximum Marks		
			L	T	P		C	CIA	ESE
23MAT101	Matrices and calculus	BS	3	1	0	4	40	60	100
23PHE103	Applied Physics for Electronics Engineering	BS	3	0	2	4	50	50	100
23CYE101	Engineering Chemistry	BS	3	0	2	4	50	50	100
23MAT202	Differential Equations and Numerical Methods	BS	3	1	0	4	40	60	100
23PHT203	Advanced Physics for Electronics Engineering	BS	3	0	0	3	40	60	100
23CYT201	Environmental Science and Sustainability	BS	3	0	0	3	40	60	100
23MAT302	Transforms and Random Processes	BS	3	1	0	4	40	60	100

LIST OF ENGINEERING SCIENCES

Course Code	Name of the Subject	Category	Periods / Week			Credit	Maximum Marks		
			L	T	P		C	CIA	ESE
23GEE101	Programming in C	ES	3	0	2	4	50	50	100
23GEL201	Engineering Practices Laboratory	ES	0	0	4	2	60	40	100
23GEL202	Engineering Drawing for Electrical & Electronics	ES	0	0	4	2	60	40	100
23GEE301	Problem Solving and Python Programming	ES	3	0	2	4	50	50	100

LIST OF PROFESSIONAL ELECTIVE COURSES

Professional Elective - I

Course Code	Name of the Subject	Category	Periods / Week			Credit	Maximum Marks		
			L	T	P		C	CIA	ESE
23PTP501	Medicinal Chemistry	PE	3	0	0	3	40	60	100
23PTP502	Bioinformatics and Cheminformatics	PE	3	0	0	3	40	60	100
23PTP503	Protein Structure, Function and Proteomics	PE	3	0	0	3	40	60	100
23PTP504	Computer Aided Drug Design	PE	3	0	0	3	40	60	100
23PTP505	Regulatory Toxicology	PE	3	0	0	3	40	60	100
23PTP506	Clinical Research And Pharmacovigilance	PE	3	0	0	3	40	60	100

Professional Elective - II

Course Code	Name of the Subject	Category	Periods / Week			Credit	Maximum Marks		
			L	T	P		C	CIA	ESE
23PTP507	Technology of Fine Chemicals and Bulk drugs	PE	3	0	0	3	40	60	100
23PTP508	Preformulation Technology	PE	3	0	0	3	40	60	100
23PTP509	Manufacturing Technology of Dosage Forms	PE	3	0	0	3	40	60	100
23PTP510	Industrial Process And Scaleup Techniques	PE	3	0	0	3	40	60	100
23PTP511	Novel Drug Delivery Systems	PE	3	0	0	3	40	60	100
23PTP512	Pharmaceutical Packaging Technology	PE	3	0	0	3	40	60	100

Professional Elective - III

Course Code	Name of the Subject	Category	Periods / Week			Credit	Maximum Marks		
			L	T	P		C	CIA	ESE
23PTP513	Biological spectroscopic techniques	PE	3	0	0	3	40	60	100
23PTP514	Quality Assurance in Pharmaceutical Industries	PE	3	0	0	3	40	60	100
23PTP515	Audits and regulatory compliance	PE	3	0	0	3	40	60	100
23PTP516	Validation in Pharmaceutical Industries	PE	3	0	0	3	40	60	100
23PTP517	Quality Management system	PE	3	0	0	3	40	60	100
23PTP518	Product development and technology transfer	PE	3	0	0	3	40	60	100

Professional Elective - IV

Course Code	Name of the Subject	Category	Periods / Week			Credit	Maximum Marks		
			L	T	P		C	CIA	ESE
23PTP601	Pharmaceutical Production Management	PE	3	0	0	3	40	60	100
23PTP602	Pharmaceutical Supply Chain Management	PE	3	0	0	3	40	60	100
23PTP603	Safety and Disaster Management	PE	3	0	0	3	40	60	100
23PTP604	Management Information System	PE	3	0	0	3	40	60	100
23PTP605	Industrial Psychology And Human Resource Management	PE	3	0	0	3	40	60	100
23PTP606	Project Management for Pharmaceutical Technology	PE	3	0	0	3	40	60	100

Professional Elective - V

Course Code	Name of the Subject	Category	Periods / Week			Credit	Maximum Marks		
			L	T	P		C	CIA	ESE
23PTP607	Immunology	PE	3	0	0	3	40	60	100
23PTP608	Recombinant DNA technology	PE	3	0	0	3	40	60	100
23PTP609	Vaccine Technology	PE	3	0	0	3	40	60	100
23PTP610	Gene Therapy	PE	3	0	0	3	40	60	100
23PTP611	Stem cell Technology	PE	3	0	0	3	40	60	100
23PTP612	Bio conjugate Technology	PE	3	0	0	3	40	60	100

LIST OF OPEN ELECTIVE COURSES

OPEN ELECTIVES – I

Course Code	Name of the Subject	Category	Periods / Week			Credit	Maximum Marks		
			L	T	P		C	CIA	ESE
23MEO601	Introduction to Industrial Engineering	OE	3	0	0	3	40	60	100
23ECO602	Fundamentals of Electronic Devices and Circuits	OE	3	0	0	3	40	60	100
23EEO603	Electric Vehicle Technology	OE	3	0	0	3	40	60	100
23EEO604	Renewable Energy System	OE	3	0	0	3	40	60	100
23MEO605	CNC Machining Technology	OE	3	0	0	3	40	60	100
23MAO606	Graph Theory	OE	3	0	0	3	40	60	100
23CEO607	Environmental and Social Impact Assessment	OE	3	0	0	3	40	60	100
23PMO608	Pharmaceutical Nanotechnology	OE	3	0	0	3	40	60	100
23RAO609	Fundamentals of Robotics	OE	3	0	0	3	40	60	100
23CSO610	Introduction to Drone Technologies	OE	3	0	0	3	40	60	100
23MDO611	Hospital Management	OE	3	0	0	3	40	60	100
23CSO612	Cyber Forensics and Ethical Hacking	OE	3	0	0	3	40	60	100

OPEN ELECTIVES – II

Course Code	Name of the Subject	Category	Periods / Week			Credit	Maximum Marks		
			L	T	P		C	CIA	ESE
23HSO701	English for Competitive Examinations	OE	3	0	0	3	40	60	100
23MGO702	Democracy and Good Governance	OE	3	0	0	3	40	60	100
23MEO703	Fundamentals of Mechatronics	OE	3	0	0	3	40	60	100
23CEO704	Remote Sensing Concepts	OE	3	0	0	3	40	60	100
23MEO704	Nano Technology	OE	3	0	0	3	40	60	100
23MDO705	Ultrasound Principles and its Medical Applications	OE	3	0	0	3	40	60	100
23PMO706	Intellectual Property Rights	OE	3	0	0	3	40	60	100
23RAO707	Mobile Robots	OE	3	0	0	3	40	60	100
23ECO708	Energy Technology	OE	3	0	0	3	40	60	100
23EEO709	Sensors, Actuators and its Applications	OE	3	0	0	3	40	60	100
23MAO710	Operations Research	OE	3	0	0	3	40	60	100
23CSO711	Cyber Security	OE	3	0	0	3	40	60	100
23MEO712	3D Printing and Design	OE	3	0	0	3	40	60	100

OPEN ELECTIVES - III

Course Code	Name of the Subject	Category	Periods / Week			Credit	Maximum Marks		
			L	T	P		C	CIA	ESE
23HSO713	Project Report Writing	OE	3	0	0	3	40	60	100
23MAO714	Advanced Numerical Methods	OE	3	0	0	3	40	60	100
23CSO715	Fundamentals of Block chain Technology	OE	3	0	0	3	40	60	100
23EEO716	Electrical, Electronic and Magnetic Materials	OE	3	0	0	3	40	60	100
23CEO717	Geographical Information System	OE	3	0	0	3	40	60	100
23ECO718	VLSI Design	OE	3	0	0	3	40	60	100
23MDO719	Wearable Technology	OE	3	0	0	3	40	60	100
23MEO720	Marine Vehicles	OE	3	0	0	3	40	60	100
23RAO721	Nanomaterials and Application	OE	3	0	0	3	40	60	100
23MGO722	Cost Management of Engineering Projects	OE	3	0	0	3	40	60	100
23MDO723	Medical Waste Management	OE	3	0	0	3	40	60	100
23MDO724	Lifestyle Diseases	OE	3	0	0	3	40	60	100

GENERAL ELECTIVES

Course Code	Name of the Subject	Category	Periods / Week			Credit	Maximum Marks		
			L	T	P		C	CIA	ESE
23NCCL01	NCC AIRFORCE LEVEL-1	GE	3	0	0	3	40	60	100
23NCCL02	NCC AIRFORCE LEVEL - 2	GE	3	0	0	3	40	60	100
23NCCL03	NCC ARMY LEVEL - 3	GE	3	0	0	3	40	60	100
23NCCL04	NCC ARMY LEVEL - 4	GE	3	0	0	3	40	60	100

ELECTIVE - MANAGEMENT

Course Code	Name of the Subject	Category	Periods / Week			Credit	Maximum Marks		
			L	T	P		C	CIA	ESE
23MGT701	Principles of Management	GE	3	0	0	3	40	60	100
23MGT702	Total Quality Management	GE	3	0	0	3	40	60	100
23MGT703	Engineering Economics and Financial Accounting	GE	3	0	0	3	40	60	100
23MGT704	Human Resource Management	GE	3	0	0	3	40	60	100
23MGT705	Knowledge Management	GE	3	0	0	3	40	60	100
23MGT706	Industrial Management	GE	3	0	0	3	40	60	100
23MGT707	Supply Chain Management	GE	3	0	0	3	40	60	100
23MGT708	e-Waste Management	GE	3	0	0	3	40	60	100

LIST OF EMPLOYABILITY ENHANCEMENT COURSES

Course Code	Name of the Subject	Category	Periods / Week			Credit	Maximum Marks		
			L	T	P		C	CIA	ESE
23EEC101	Soft Skills & Life Skills	EEC	1	0	0	1	100	-	100
23EEC201	Indian Language (Except Mother Tongue) / Foreign Language	EEC	0	0	4	2	100	-	100
23EEC301	Professional Development	EEC	0	0	2	1	100	-	100
23EEC401	Online Certification Courses	EEC	3	0	0	3	100	-	100
23EEC501	Industrial training	EEC	0	0	4	2	100	-	100
23EEJ601	Project Work - Phase I	EEC	0	0	8	4	60	40	100
23EEJ701	Project Work - Phase II	EEC	0	0	8	4	60	40	100
23EEJ801	Product Development	EEC	0	0	12	6	60	40	100
23EEC801	Internship	EEC	0	0	4	2	100	-	100



LIST OF MANDATORY COURSES

MANDATORY COURSES – I

Course Code	Name of the Subject	Category	Periods / Week			Credit	Maximum Marks		
			L	T	P		C	CIA	ESE
23MDC501	Introduction to Women and Gender Studies	MC	3	0	0	0	-	-	-
23MDC502	Elements of Literature	MC	3	0	0	0	-	-	-
23MDC503	Film Appreciation	MC	3	0	0	0	-	-	-
23MDC504	Disaster Risk Reduction and Management	MC	3	0	0	0	-	-	-
23MDC505	Constitution of India	MC	3	0	0	0	-	-	-

MANDATORY COURSES – II

Course Code	Name of the Subject	Category	Periods / Week			Credit	Maximum Marks		
			L	T	P		C	CIA	ESE
23MDC601	Well Being with Traditional Practices- Yoga, Ayurveda and Siddha	MC	3	0	0	0	-	-	-
23MDC602	History of Science and Technology in India	MC	3	0	0	0	-	-	-
23MDC603	Political and Economical Thought for a Human Society	MC	3	0	0	0	-	-	-
23MDC604	State, Nation Building and Politics in India	MC	3	0	0	0	-	-	-
23MDC605	Industrial Safety	MC	3	0	0	0	-	-	-



SENGUNTHAR ENGINEERING COLLEGE

(AUTONOMOUS)

NAAC Accredited with 'A' Grade,
(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956

TIRUCHENGODE- 637 205



CURRICULUM

(For the Students Admitted in the Academic Year 2023-2024 onwards)

CREDIT SUMMARY

FOR B.TECH. PHARMACEUTICAL TECHNOLOGY

Category	Credits Per Semester								Credit Total
	I	II	III	IV	V	VI	VII	VIII	
HS	4	7	-	-	-	-	3	-	14
BS	12	10	4	3	-	-	-	-	29
ES	4	-	-	-	-	-	-	-	4
PC	-	4	18	18	12	11	6	-	69
PE	-	-	-	-	9	9	-	-	18
OE	-	-	-	-	-	-	9	-	9
GE	-	-	-	-	-	-	-	-	-
EEC	1	2	1	3	2	4	4	08	25
MC	-	-	-	-	-	-	-	-	-
Total	21	23	23	24	23	24	22	08	168