ISLAMIAH COLLEGE (AUTONOMOUS) BRIEF HISTORY

Islamiah College is a symbol of devotion to education and love for learning of the Muslims of Vaniyambadi, who, in their zeal for translating into action the message of Sir Syed Ahmed Khan, established the Vaniyambadi Muslim Educational Society in 1901. The Society was registered in 1905, and soon, under its auspices, the Islamiah Elementary School was started. The phenomenal growth of the school was due to the untiring and dedicated services and leadership of Janab T. Hajee Badruddin Sahib, Janab Malang Hayath Basha Sahib, Janab T. Ameeenuddin Sahib and Janab Malang Ahmed Basha Sahib. The full-fledged Islamiah High School came into being in 1912.

In 1915, the society resolved to establish the Islamiah College and the foundation stone of the College was laid by His Excellency Lord Pentland, the then Governor of Madras Province. With princely donations from Muslim Philanthropists, the College was started in 1919 and got recognition in July 1921. The building in which the College is housed at present was opened by Nawab C. Abdul Hakeem Sahib.

In 1946, the College was upgraded, offering instruction in the two-year degree courses in B.A. Economics and B.Com. In 1954, B.A. Mathematics was started. In 1956, the College got affiliation for the Pre-University and three-year degree courses, B.A., B.Sc., and B.Com. Courses were started in 1957.

THE COLLEGE GOT AFFILIATION FROM THE UNIVERSITY FOR VARIOUS ADDITIONAL COURSES:

S. No.	Name of the Course	Major Subject	Year of Affiliation
1	B.Sc.	Chemistry	1963
2	B.A.	History	1967
3	B.Sc.	Zoology	1967
4	M.A.	History	1974
5	M.Com.	Commerce	1975
6	M.Sc.	Mathematics	1976
7	B.Sc.	Physics	1981
8	B.A.	Corporate Secretaryship	1982
9	B.A.	Industrial Organisation	1983
10	B.Sc.	Biochemistry	1985
11	M.Phil.	Commerce	1986
12	M.Sc.	Chemistry	1986
13	B.Sc.	Computer Science	1988

To cater to the needs of the community in changing circumstances B.A. (Industrial Organisation) was converted to B.B.A. in 2005 and B.Sc. (Zoology) was converted to B.Sc. (Biotechnology) in 2006.

THE COLLEGE GOT AFFILIATION FOR THE FOLLOWING UNAIDED COURSES:

S.NO.	COURSE	MAJOR SUBJECT	YEAR OF AFFILIATION
1	Ph.D.	Commerce	1986
2	M.Phil.	Mathematics	1988
3	M.Phil.	History	1993
4	Ph.D.	History	1996
5	M.Sc.	Biochemistry	1998
6	M.Sc.	Physics	1999
7	M.Phil.	Chemistry	2000
8	B.C.A.	Computer Application	2000
9	Ph.D.	Chemistry	2005
10	Ph.D.	Mathematics	2005
11	M.Phil.	Biochemistry	2009
12	M.Phil.	Physics	2009
13	B.A.	English Lit.	2010
14	M.A	English Lit.	2010
15	M.Sc.	Biotechnology	2010
16	Ph.D.	Physics	2010
17	Ph.D.	Tamil	2012
18	B.Sc.	Computer Science	2013
19	M.Phil.	Biotechnology	2013
20	Ph.D.	Biotechnology	2014
21	Ph.D.	Biochemistry	2016
22	Ph.D.	Hindi	2016
23	B.Com.	Commerce	2016
24	Ph.D.	English	2018
25	Ph.D.	Urdu	2019
26	B.Sc.	Chemistry	2019
27	B.Sc.	Data Science	2022

In view of the changing scenario, two courses, namely B.A. (Economics) and B.A. (Corporate Secretaryship), were converted to B.Com (Finance & Accounts) and B.Com (Computer Applications), respectively, with effect from the academic year (2010-2011) to make the students of these two courses more employable.

The College, which had a humble beginning in 1919, has now grown into a full-fledged P.G. and Research Institution catering to the needs of the rural lot who would have otherwise not dreamt of taking a Research Degree.

Consequent to the establishment of Thiruvalluvar University, this College has been affiliated to Thiruvalluvar University from the academic year 2002-2003. In pursuance of academic excellence and to implement the suggestion of the NAAC peer team, the College applied for Autonomy in the year 2008. The expert team inspected the College in March 2010 and recommended Autonomy. The College has thus conferred Autonomy with effect from the academic year 2010-2011, and we have successfully completed the first phase of autonomy during the academic year 2015-2016. The UGC has granted extension of Autonomy to the College for a period of six years from 2016-17 to 2021-22. The College has been reaccredited by the National Assessment and Accreditation Council (NAAC), Bengaluru, with "A" Grade from February 2014. The College has been accredited by NAAC with "A" Grade again during the 3rd Cycle for 5 years from 02.02.2021 to 01.02.2026. By the grace of Almighty, The University Grants Commission, New Delhi, has granted a further extension of Autonomy to the College for a period of 10 years from 2022-23 to 2031-32.

The aim of the College is to foster in the teachers and students and, through them in society, the attitudes and values needed for developing a "good life" in individuals and society. The College has earned for Vaniyambadi a place in the educational map of India. The College keeps its portals open to members of all castes and communities.

REGULATIONS BACHELOR DEGREE PROGRAMMES

(For Students admitted from 2023-2024)

CBCS

Choice-Based Credit System (CBCS) is flexible for learning. Credit defines the quantum of contents/syllabi prescribed for a course and determines the number of hours of instruction required. The distinguishing features of CBCS are the following:

It permits the students to:

- ➤ Choose Electives from a wide range of Elective Courses offered by various departments of the College.
- Undergo additional courses and acquire more than the required number of credits.
- > Adopt an interdisciplinary approach to learning.
- Make the best use of the expertise of available faculty.

1. Eligibility for Admission

Students for admission to the first year UG degree programme in Arts / Science / Commerce / Business Administration shall be required to have passed the Higher Secondary Examinations (Academic or Vocational Stream) conducted by the Government of Tamil Nadu or an Examination accepted as equivalent thereto by the Governing Body of Islamiah College (Autonomous), Vaniyambadi.

Provided that Students for admission into the specific main subject of study shall also possess such other qualifying conditions as may be prescribed by the University / College in the regulations governing to respective programmes of study.

Admission to the direct second year of the UG degree programme under the LATERAL ENTRY system is permitted, provided there is a vacancy and it is subjected to the Eligibility and specific permission of Thiruvalluvar University. Lateral Entry admission is for those candidates who have completed their three-year diploma in the subject in which he seeks admission.

2. Cancellation of Admission

The admission is at the student's risk and is provisional, subject to the approval of Thiruvalluvar University. If the admission is not approved for any reason, the candidate shall not hold the College responsible for it. If selected, in the event of leaving the College after admission but at any time before

completing the programme, the fee for the residual period of the course should be paid by the student as per the rules in force.

3. Eligibility for the Award of Degree Programme

A student shall be eligible for the award of the Degree programme only if he has undergone the prescribed course of study in this College for three academic years and passed the examinations of all the Six Semesters prescribed, earning 140 credits and fulfilling such conditions as have been prescribed, therefore.

4. Duration

- a. Each academic year shall be divided into two semesters. The first academic year shall comprise the first and second semesters, the second academic year: the third semesters and fourth semester and the third academic year: the fifth and sixth semesters, respectively.
- b. The Odd semesters shall consist of the period from June to November of each year and the even semesters from December to April of each year. There shall be at least 90 working days comprising 450 instructional hours for each semester.

5. Course of Study

The main subject of study for Bachelor's Degree programme shall consist of the following:

PART I Generic Elective Languages

PART II English

PART III Core Courses, Elective & Discipline Specific Elective

PART IV Skill Enhancement Courses, Ability Enhancement Courses

Environmental Studies, Value Education, Internship/Industrial

Training and Professional Competency Course

PART V Extension Activity

6. Extension activities

All the students shall have to enrol for NCC / NSS / Sports and Games / Rotaract/Youth Red Cross or any other service organization and subject associations in the college and shall have to put in a compulsory minimum attendance of 40 hours which shall be duly certified by the Principal of the college before 31st March in a year. If a student lacks 40 hours of attendance in the first year, he has to compensate for the same during the subsequent years. Literacy and Population Education field work shall be compulsory components in the above extension service activities.

The total marks for Extension Activities are 100, it is divided into 75 for External Activities (outside the college campus) and 25 for Internal Activities (inside the college campus) and the passing minimum is 40%.

7. Continuous Internal Assessment (CIA) Test

The following procedure will be followed for the award of internal marks:

CIA Test I: Two or Three hours duration for 75 marks

CIA Test II: Three hours duration for 75 marks

Marks Distribution	Theory &
	Practical
CIA Test Marks 150 to be converted to	10 Marks
Library Usage in Hours	5 Marks
Assignment / Seminar / Observation	5 Marks
Attendance	5 Marks
TOTAL	25 Marks

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In the last column, any fraction may be rounded off to the nearest integer. The marks for the Attendance component in the Continuous Internal Assessment should be calculated as follows:

Attendance Earned	Category	Marks to be Awarded
90 % and Above	Highly Regular	5
75% but below 90%	Regular	4
65% but below 75%	Shortage	3
55% but below 65%	Detained	2
Below 55 %	Redo	0

8. Library Usage

The following procedure will be followed for the award of internal marks component of Library Usage:

Library Usage for all UG Programmes - 20 hours per Semester

Library usage for UG in hours	Marks to be awarded
1 hours to 7 hours	3
7 hours to 14 hours	4
14 hours and above	5

9. Requirements for proceeding to subsequent Semester

- Students shall register their names for the First-semester Examination after admission to the UG programmes.
- Students shall be permitted to proceed from the first Semester up to the Final Semester irrespective of the number of arrears in any of the End Semester Examinations.
- Students shall be eligible to go to subsequent semesters as per the attendance rules prescribed by the Governing Body from time to time.

10. Requirements to take the End Semester Examinations

- a) A Student will be permitted to take the End Semester Examinations of any Semester if
 - he secures at least 75% of attendance out of the 90 instructional days / 450 instructional hours during the particular Semester.
 - he earns a progress certificate from the Principal for having satisfactorily completed the prescribed course of study in the subjects as required by these Regulations, and
 - his conduct has been satisfactory.
- b) Students will be permitted to appear for Practical examinations only if they have attended 75% of the practical classes. A Student who has secured attendance of less than 75% but 65% and above shall be permitted to take the End Semester Examinations on the recommendation of the Head of the Department and approved by the Principal to condone the lack of attendance as well as on the payment of the prescribed condonation fee to the College.

A student who has secured an attendance of less than 65% but 55% and above is detained for that particular semester. He/She will be permitted to write the examinations in the next Odd / Even Semester by paying the prescribed condonation fee.

The Students who have an attendance of less than 55% are detained, and they shall REDO the semester after completion of the programme and after getting re-admission, that too at the sole discretion of the Principal. However, readmission will be allowed only during the respective semester of the programme. Those who redo the courses shall attend the special classes arranged by the HOD concerned.

The REDO students who have already completed their CIA Test and Practical Examination with at least minimum qualifying marks may be exempted from reappearing for the CIA Test and Practical Examination again in the readmitted Semester. However, if any student wishes to improve upon his

marks, he can appear for the CIA Test and Practical Examinations. In such a case, the original marks or the marks secured in the readmitted semester, whichever is higher, shall be taken as final marks.

11. Passing Minimum

Students shall be declared to have passed the whole examination if he passes all the papers and practicals, wherever prescribed / as per the scheme of examinations, by earning 140 CREDITS. He shall also complete one MOOC and fulfill the extension activities prescribed to qualify for the Degree.

In fixing the passing minimum, the following will be observed:

- a. There shall be no passing minimum for Internal Assessment.
- b. For End Semester Examinations, the passing minimum shall be **P** (minimum 40 % marks prescribed for the paper for each course / practical / project and Viva-voce).
- c. In aggregate (End Semester Examination + Internal Assessment) the passing minimum shall be **P** for each course.

12. Grading System

The marks earned by a candidate in the Internal Assessment and End Semester Examinations for each of the courses will be added. The marks thus obtained will then be converted into Letter Grades and Grade points as per the details given below:

Range of	Letter	Grade
Marks	Grade	Points
96 – 100	0	10
86 – 95	A+	9
76 – 85	Α	8
66 – 75	B+	7
56 – 65	В	6
50 – 55	С	5
40 – 49	Р	4
00 – 39	F	0
Absent	Ab	0

The term Grading system indicates a seven-point scale of evaluation of the performances of students in terms of Grade Points secured in the Internal and External Examinations.

13. Classification of Successful Candidates

Successful Students who passed all the specified courses in a programme are classified as follows:

Passed all the courses with CGPA of 7.5 and

above without any arrears : First Class with Distinction

Passed all the courses with CGPA 6 to 7.4 : First Class
Passed all the courses with CGPA 5 to 5.9 : Second Class
Passed all the courses with CGPA 4 to 4.9 : Third Class

The total performance within a semester and continuous performance starting from the first semester are indicated respectively by Grade point Average (GPA) and Cumulative Grade point Average (CGPA). These two are calculated by the following formula.

$$GPA = \frac{\sum_{i} C_{i} G_{i}}{\sum_{i} C_{i}} = \frac{\text{Sum of the product of credits and grade points earned}}{\text{Sum of the credits of the courses in a Semester}}$$

$$CGPA = \frac{\sum_{n} \sum_{i} C_{ni} G_{ni}}{\sum_{n} \sum_{i} C_{ni}}$$

 $= \frac{\text{Sum of the product of the credits and grade points earned}}{\text{Sum of the credits for the entire programme}}$

Where C_i is the credit earned for the course i in any semester, G_i is the grade point obtained by the student for the course i and n is the number of courses passed in that semester. CGPA is the GPA of all the courses starting from the first semester to the current semester.

14. Choice Based Credit System (CBCS), Learning Outcomes Based Curriculum Framework (LOCF) Guideline-Based Credit and Hours Distribution System for all UG courses including Lab Hours First Year – Semester-I

Part	List of Courses	Credit
Part-1	Language – Tamil	3
Part-2	English	3
Part-3	Core Courses & Elective Courses [in Total]	11
	Skill Enhancement Course SEC-1	
Part-4	Foundation Course	6
	Ability Enhancement Course	
		23

Semester-II

Part	List of Courses	Credit
Part-1	Language – Tamil	3
Part-2	English	3
Part-3	Core Courses and elective Courses, including laboratory [in Total]	11
Part-4	Skill Enhancement Course -SEC-2 Skill Enhancement Course -SEC-3 (Discipline / Subject Specific)	6
	Ability Enhancement Course	
		23

Second Year – Semester-III

Part	List of Courses	Credit
Part-1	Language - Tamil	3
Part-2	English	3
Part-3	Core Courses and elective Courses, including laboratory [in Total]	12
Part-4	Skill Enhancement Course -SEC-4 (Entrepreneurial Based) Skill Enhancement Course -SEC-5 (Discipline / Subject Specific)	4
	E.V.S Ability Enhancement Course	
		22

Semester-IV

Part	List of Courses	Credit
Part-1	Language - Tamil	3
Part-2	English	3
Part-3	Core Courses and elective Courses, including laboratory [in Total]	11
Part-4	Skill Enhancement Course -SEC-6 (Discipline / Subject Specific)	8
	Skill Enhancement Course -SEC-7 (Discipline / Subject	

Specific)	
E.V.S	
Ability Enhancement Course	
	25

Third Year Semester-V

Part	List of Courses	Credit
Part-3	Core Courses, including Project / Elective	22
Part-4	Value Education	4
	Internship / Industrial Visit / Field Visit	4
		26

Semester-VI

Part	List of Courses	Credit
Part-3	Core Courses, including Project / Elective & LAB	18
Part-4	Professional Competency Skill	2
Part- 5	Extension Activities	1
		21

15. Ranking

Students who pass all the examinations prescribed for the programme in the First Appearance alone are eligible for Ranking, provided in the case of candidates who pass all the examinations prescribed for the program with a break in the First Appearance due to shortage of attendance but his conduct has been satisfactory are also eligible for Classification. The marks obtained in Improvement Examinations will not be taken into consideration for Ranking.

15. The Medium of Instruction and Examinations

The medium of instruction and question paper shall be in English. The students having arrears in odd/even semesters can appear for such papers in the odd/even semester examination without any restrictions.

17. Submission of Record Notebooks for Practical Examinations

Students taking the Practical Examinations should submit Bonafide Record Note Books prescribed for the Practical Examinations. Otherwise, the students will not be permitted to take the Practical Examinations. However, in genuine cases where students could not submit the record notebooks may be permitted to take the Practical Examinations provided the Head of the Department and the Course Teacher concerned certify that the student has performed the experiments prescribed for the course.

For such Students who do not submit Record Books, zero marks will be awarded for record notebooks in the Practical Examination concerned.

In case a Student does not secure the prescribed passing minimum in the Practical Examination, the marks awarded for the Record Note Book at the time of the first appearance for the Practical Examination should be made available by the Head of the Department concerned at the subsequent appearance by the candidate.

18. Improvement of Marks in the Courses already passed

Students desirous of improving the marks secured in a passed course on their first attempt shall reappear once within a period of two subsequent semesters. The improved marks shall be considered for Classification / Distinction but not for ranking. If there is no improvement, there shall not be any change in the original marks already awarded. The fee for such appearances will be decided by the Governing Body from time to time. Students will not be allowed to improve marks in the Practical, Project, Viva-voce, and fieldwork.

19. MOOC

All the UG Students admitted from the academic year 2023-2024 shall have to complete one MOOC (SWAYAM /NAAN MUDHALVAN/Online Spoken Tutorial by IIT Bombay) of a minimum of 4 weeks duration is mandatory during the programme as per the norms, to be eligible for obtaining the UG degree.

20. Self-Supportive Courses

The above Regulations shall apply to Students undergoing the respective self-supportive courses also.

21. Rank Holders

The student who secures the highest marks in aggregate of all the subjects in the first attempt of the autonomous examinations will be the Rank Holder. This applies to all UG/PG Programmes of our College. The Rank Holder will be awarded a certificate and prize.

22. Transitory Provision

Students who have joined the programme from the academic year 2023-24 will be permitted to appear for the examinations under this Regulation for a maximum period of **SIX** years. Thereafter, they will be permitted to appear for the examinations only under the new Regulations in force. The equivalent paper to be written will be decided by the Chairman of the respective Board of Studies. Such

candidates have to reregister for the programme. The fee for such re-registration will be decided by the Governing Body from time to time.

23. INTERNSHIP/INDUSTRIAL TRAINING

Objectives:

- 1. To improve the employability of students pursuing Undergraduate Degree Programme
- 2. To focus on outcome-based learning in degree Programmes.
- 3. To promote active linkage between the higher education system and industry, non-commercial and commercial enterprises/organisations.

General Provisions:

- 1. Any UG degree program in all disciplines as specified by the UGC under section 22 (3) of the UGC Act, 1956 is eligible to embed apprenticeship/ internship to the degree program.
- 2. An Internship/Industrial embedded degree program shall be treated at par with the UG degree Programmes specified by the UGC under section 22 (3) of the UGC Act, 1956.

Duration:

- 1. The Internship/Industrial training during the second-year vacation will help the students gain valuable work experience, that connects classroom knowledge to real-world experience and to narrow down and focus on the career path.
- 2. The period of Internship/Industrial training shall be of 30 hours duration apart from the regular teaching hours.
- 3. Students may commence their Internship/Industrial training from the II Semester holidays onwards.
- 4. The spells of Internship/Industrial training shall be scheduled either continuously or at intervals depending upon the requirement and practicality of the discipline concerned.

Credit Mechanism:

- 1. Credits for the Internship/Industrial Training programme shall be included in the total credits of the entire programme.
- 2. Two Credits for the degree programme should be assigned to apprenticeship/internship.

Programme	Duration	Credit	Total Marks		
Internship/Industrial Training Report	30 hours (Beyond Regular	2	Viva	Project Report	
	Teaching hours)		25	75	

Evaluation of the Internship/Industrial Training Report

The Internship/Industrial Training reports for UG Degree Programme may be independent or group. In the case of group reports, a maximum of five Students in a group. The Title Page, Certificate by the student, and Certificate of Internship undertaken shall be in the format as prescribed by the Examination Cell.

The Internship / Industrial Training report should be countersigned by the Head of the Department and Principal and submitted to the Examination Cell. The external examiner is to be drawn from related faculty from affiliating University Departments / any affiliated college within the affiliating University jurisdiction.

Submission of Project Reports

Project with viva-voce component in the fifth semester enables the student application of conceptual knowledge to practical situations. The state of art technologies in conducting an experiment scientifically and systematically and arriving at a precise solution is ensured. Such innovative provisions of the project will give students an edge over their counterparts in the job market.

The projects for the UG degree programme may be independent or a group. In the case of group projects, a maximum of FIVE students are in a group. The format for the title page, certificate by the project advisor, and declaration by the candidate(s) shall be in the format as prescribed by the Examination Cell. The project reports duly countersigned by the Head of the Department concerned, and the Principal should be submitted to the office of the Controller of Examination within the specified date.

Regarding the evaluation of the Internship/Industrial training project report and project with a viva voce examination in the fifth semester, the total mark is 100. It is divided into 75 marks for project evaluation and 25 marks for the viva-voce examination. The marks for project work evaluation and viva-voce are to be awarded jointly by the internal examiner and the external examiner.

The external examiner is to be drawn from other related faculty from within the college / affiliating University Departments / any affiliated college within our University jurisdiction.

QUESTION PAPER PATTERN FOR UG DEGREE PROGRAMMES - 3 HOURS DURATION

Part A	To answer All the 10 MCQs (Two questions from each UNIT)	10 x 1 = 10 Marks
Part B	To answer All the 5 questions (One question from each UNIT)	5 x 2 = 10 Marks
Part C	To answer All the 5 questions (either or type) (One question from each UNIT)	5 x 5 = 25 Marks
Part D	To answer 3 questions (out of 5 questions) (One question from each UNIT)	3 x10 = 30 Marks
	TOTAL	75 Marks
	(Equal Weightage should be given to eac	h unit)

Question paper Pattern for Courses, for which Online Examination is conducted: 50 MCQs (Answer All Questions) X 1.5 marks each = Total 75 Marks

Duration of the Exam = Two (2) Hours

ISLAMIAH COLLEGE (AUTONOMOUS) COURSE STRUCTURE FOR UG PROGRAMMES (CBCS PATTERN)

(For Students admitted from 2023 – 2024)

PROGRAMME OUTCOMES (POs) FOR B.A. ENGLISH

BY THE END OF THE PROGRAM, THE STUDENTS WILL BE ABLE TO

PO1: Disciplinary Knowledge: Capable of demonstrating comprehensive knowledge and understanding of one or more disciplines that form a part of an undergraduate programme of study.

PO2: Critical Thinking: Capability to apply analytic thought to a body of knowledge; analyze and evaluate evidence, arguments, claims, and beliefs based on empirical evidence; identify relevant assumptions or implications; formulate coherent arguments; critically evaluate practices, policies and theories by following a scientific approach to knowledge development.

PO3: Problem-Solving: Capacity to extrapolate from what one has learned and apply competencies to solve different kinds of non-familiar problems rather than replicate curriculum content knowledge and apply one's earnings to real-life situations.

PO4: Analytical Reasoning: Ability to evaluate the reliability and relevance of evidence; identify logical flaws and holes in the arguments of others; analyze and synthesize data from a variety of sources; draw valid conclusions and support them with evidence and examples and address opposing viewpoints.

PO5: Scientific Reasoning: Ability to analyze, interpret and draw conclusions from quantitative/qualitative data; and critically evaluate ideas, evidence, and experiences from an open-minded and reasoned perspective.

PO6: Self-directed & Lifelong Learning: Ability to work independently to identify and manage a project. Ability to acquire knowledge and skills, including "learning how to learn" through self-paced and self-directed learning aimed at personal development, meeting economic, social, and cultural objectives.

PO7: Reflective Thing: Critical sensibility to lived experiences, with self-awareness and reflexivity of both self and society

PO8: Reading & Projects: Document their reading and interpretive practices in assignments, translation works, and independent projects.

PO9: Confidence & Effectiveness: Confidently and effectively articulate their literary and textual experiences.

PO10: Social Skills & Empathetic Approach: Reorganize a professional and reflective

approach to leadership, responsibility, personal integrity, and self-regulation.

PROGRAMME SPECIFIC OUTCOMES:

PSO1: Acquire good knowledge and understanding to solve specific theoretical & applied problems in different areas of English Language and Literature.

PSO2: Understand, formulate, and develop mathematical arguments logically and use quantitative models to address issues arising in social sciences, business, and other contexts/fields.

PSO3: To prepare the students who will demonstrate respectful engagement with others' ideas, behaviors, and beliefs and apply diverse frames of reference to decisions and actions. To create effective entrepreneurs by enhancing their critical thinking, problem-solving, decision-making, and leadership skills that will facilitate startups and high-potential organizations.

PSO4: Developing a research framework and presenting their independent ideas effectively.

PSO5: Equipping their employability skills to excel in professions like teaching and exposing them to various activities to empower them through communication skills.

PSO6: Enabling a holistic perspective towards the socio-political inequalities and environmental issues

		COURS	SE STRUCTURE FOR I	B.A. ENG	SLISH				
	(Fo	r Students ad	lmitted from the aca	demic y	ear 20	23-2	024)		
Part	Category	Course Code	Course Title	Hrs./Week	Credit	Exam. Hrs.	CIA	ESE	TOTAL
			SEMESTER I						
1	Generic Elective Languages (To choose 1 out of 4)	UCTATL11 UCURTL11 UCARTL11 UCHDTL11	Tamil I Urdu I Arabic I Hindi I	6	3	3	25	75	100
П	English	UCENTL11	English I	4	3	3	25	75	100
	Core Course 1	UCENTC11	Introduction to Literature	5	4	3	25	75	100
III	Core Course 2	UCENTC12	Indian Writing in English	5	4	3	25	75	100
	Elective 1	UCENTA11	Allied - Social History of England	4	3	3	25	75	100
	Skill Enhancement Course SEC1	UCENTS11	Allied - Leadership Skills	2	2	3	25	75	100
IV	Foundation Course	UCENTF11	Bridge Course	2	2	3	25	75	100
	Ability Enhancement Course AEC1	UCSSTM11	Soft Skill - I	2	2	3	25	75	100
			TOTAL	30	23	-	200	600	800
			SEMESTER II						
	Generic Elective	UCTATL21	Tamil II						
١,	Languages	UCURTL21	Urdu II	6	3	2	25	75	100
'	(To choose 1 out	UCARTL21	Arabic II		3	3	25	75	100
	of 4)	UCHDTL21	Hindi II						

Ш	English	UCENTL21	English II	4	3	3	25	75	100
	Core Course 3	UCENTC21	British Literature I	5	4	3	25	75	100
III	Core Course 4	UCENTC22	American Literature I	5	4	3	25	75	100
	Elective 2	UCENTA21	Allied - History of English Literature	4	3	3	25	75	100
	Skill Enhancement Course SEC 2	UCENTS21	Allied - Business English	2	2	3	25	75	100
IV	Skill Enhancement Course SEC 3	UCENTS22	Technical Writing	2	2	3	25	75	100
	Ability Enhancement Course AEC2	UCSSTM21	Soft Skill - II	2	2	3	25	75	100
			TOTAL	30	23	-	200	600	800
			SEMESTER III						
	Generic Elective	UCTATL31	Tamil III						
	Languages	UCURTL31	Urdu III	_	_	_			
ı	(To choose 1 out	UCARTL31	Arabic III	6	3	3	25	75	100
	of 4)	UCHDTL31	Hindi III						
II	English	UCENTL31	English III	4	3	3	25	75	100
	Core Course 5	UCENTC31	British Literature-II	5	4	3	25	75	100
III	Core Course 6	UCENTC32	American Literature I	4	4	3	25	75	100
	Elective 3	UCENTA31	Allied - Literary Genres and Terms	5	4	3	25	75	100
	Skill Enhancement Course SEC 4	UCENTS31	Entrepreneurial Skill	2	1	3	25	75	100
107	Skill Enhancement Course SEC 5 [Online Exam]	UCENOS32	Employability Skills	1	1	2	25	75	100
IV	EVS	-	Environmental Studies	1	-	-	-	-	-
	Ability Enhancement Course AEC3	UCSSTM31	Soft Skill - III	2	2	3	25	75	100
			TOTAL	30	22	-	200	600	800

			SEMESTER IV						
	Generic Elective	UCTATL41	Tamil IV						
	Tamil/ I Language (To choose 1 out	UCURTL41	Urdu IV	6	3	3	25	75	100
'		UCARTL41	Arabic IV	0	3	3	23	/3	100
	of 4)	UCHDTL41	Hindi IV						
II	English	UCENTL41	English IV	4	3	3	25	75	100
	Core Course 7	UCENTC41	World Literature in Translation	5	4	3	25	75	100
III	Core Course 8	UCENTC42	Aspect of Language And Linguistics	5	4	3	25	75	100
	Elective 4	UCENTA41	Allied - The History of English Language	3	3	3	25	75	100
	Skill		English for						
IV	Enhancement	UCENTS41	Competitive	2	2	3	25	75	100
	Course SEC 6		Examination						

			Grand Total	180	140	-	1200	3600	4800		
	5	2	TOTAL	30	21	-	175	525	700		
	SWAYAM /NAAN M eligible for obtainin		lline Spoken Tutorial by IIT e.]	Bombay	– MOO	C [Ma	andatory On	line Cou	rse to be		
V	Extension Activity	UCEXAM61	Extension Activity	-	1	-	25	75	100		
IV	Professional Competency [Online Exam]	UCENOP61	General Studies for Competitive Examinations	2	2	2	25	75	100		
	Discipline Specific Elective 4	UCENTE62	Interpreting Drama	5	2	3	25	75	100		
	Discipline Specific Elective 3	UCENTE61	New Criticism in Contemporary Literature	5	3	3	25	75	100		
Ш	Core Course 15	UCENTC63	Creative Writing	6	3	3	25	75	100		
	Core Course 14	UCENTC62	Criticism Journalism and Mass Communication	6	5	3	25	75	100		
	Core Course 13	UCENTC61	Introduction to Literary Theory and	6	5	3	25	75	100		
			SEMESTER VI								
	Hai Haililig		TOTAL	30	26	-	200	600	800		
IV	Summer Internship/Indust rial Training	UCENIM51	Internship/Industrial Training	2	2	3	25	75	100		
	Elective 2 VED [Online Exam]	UCVEOM51	in English Value Education	2	2	2	25	75	100		
	Discipline Specific	UCENTE52	Literature Literary Movements	4	3	3	25	75	100		
	Discipline Specific Elective 1	UCENTE51	The Great Women Writer in the World	4	3	3	25	75	100		
III	Core Course 12	UCENJC51	Project With Viva Voce	4	4	3	25	75	100		
	Core Course 11	UCENTC53	Indian Writing	4	4	3	25	75	100		
	Core Course 9 Core Course 10	UCENTC51 UCENTC52	Authors in Focus Women's Writing	5	4	3	25 25	75 75	100		
SEMESTER V											
			TOTAL	30	25	-	225	675	900		
	Ability Enhancement Course AEC4	UCSSTM41	Soft Skill - IV	2	2	3	25	75	100		
	EVS [Online Exam]	UCESOM41	Environmental Studies	1	2	2	25	75	100		
	Skill Enhancement Course SEC 7	UCENTS42	Computer Literacy	2	2	3	25	75	100		

MAPPING CORRELATION BENCHMARK

Mapping	1-30%	31-60%	61-70%	71-100%
Matches	1-24	25-50	51-56	57-80
Correlation	Poor	Moderate	High	Very High

(PSOs)		Programme Outcomes (POs)									
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	
PSO1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
PSO2	✓	-	✓	✓	✓	✓	✓	✓	✓	✓	
PSO3	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	
PSO4	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
PSO5	✓	✓	✓	✓	✓	-	✓	✓	✓	✓	
PSO6	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	•		Number of	f Matches	= 57 , Co	rrelation:	Very Hig	h			

PROGRAMME OUTCOMES FOR B.A. HISTORY

PROGRAMME OUTCOMES:

PO1: Theoretical Knowledge of History: Ability to understand different history theories and application of History to society. To develop an adequate competency in the different Historical approaches.

PO2: Analytical Reasoning and Critical Thinking: Critically Analyze and assess how economists examine the real world to understand current events and evaluate specific proposals.

PO3: Logical Reasoning and Quantitative Ability: Ability to understand how to collect and analyze data and use empirical evidence to evaluate the validity of a hypothesis, using Quantitative Methodology and conducting data analysis to interpret results.

PO4: Communication and Research Skills: Communication and Research-related skills. Developing a sense of capability for relevant/appropriate inquiry and asking questions, synthesizing and, articulating and reporting results and efficiently communicating thoughts and ideas clearly and concisely.

PO5: Gender, Environment and Sustainability: Comprehend the Environmental issues and Sustainable Development, strive to achieve economic and social equity for women, and be Gender Sensitive.

PO6: Employability and Leadership Skills: Become empowered individuals to be employed in various positions in industry, academia and research and have the potential to become Entrepreneurs and take leadership roles in their chosen occupations and communities.

PO7: Social Interaction: Acquire the ability to engage in relevant conversations and have the ability to understand the views of society that would help initiate policy making.

PO8: Digital Literacy and Lifelong Learning: Capability to use ICT tools in a variety of learning situations and use appropriate software for analysis of data - Ability to acquire Knowledge situations and skills for life through self-directed learning and adapt to different learning environments.

PROGRAMME SPECIFIC OUTCOMES:

PSO1: To enable students to apply different Historical theories in real-life situations and decision-making circumstances.

PSO 2: To sensitize students to various world issues related to Development, Growth, International Economics, Sustainable Development and Environment.

PSO 3: To familiarize students with the concepts and theories of good governance, Modern Administrations and the construction of an ideal society.

PSO 4: Evaluate various social and economic problems in society and develop answers to the problems as global citizens.

PSO 5: Enhance skills of analytical and critical thinking to analyze the effectiveness of policies of the government.

MAPPING OF PROGRAMME-SPECIFIC OUTCOMES WITH PROGRAMME OUTCOMES Programme Outcomes (POs)

			U		` '			
Programme	PO 1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
Specific								
Outcomes (PSOs)								
PSO 1	3	3	3	2	3	2	2	2
PSO 2	3	3	3	2	3	2	2	2
PSO3	3	3	3	2	2	3	3	2
PSO 4	3	3	2	3	3	3	3	3
PSO 5	3	3	2	3	3	3	3	3

(3 - Strong) (2 - Medium) (1 - Low)

	(Ec		RSE STRUCTURE FOR B				24\		
	(FC		unnitied from the acad	 	year Z	023-20	<u> </u>		
Part	Category	Course Code	Course Title	Hrs./Week	Credit	Exam. Hrs.	CIA	ESE	TOTAL
		•	SEMESTER I						
	Generic Elective	UCTATL11	Tamil I						
	Tamil/	UCURTL11	Urdu I	_					
	Language (To choose 1	UCARTL11 UCHDTL11	Arabic I Hindi I	6	3	3	25	75	100
	out of 4)		-				25		100
II	English	UCENTL11	English I	4	3	3	25	75	100
	Core Course 1	UCHITC11	History of Ancient India up to 1206 CE	5	4	3	25	75	100
Ш	Elective 1 UCHITA11 States and Governments		_	5	4	3	25	75	100
			States and	4	3	3	25	75	100
	Skill Enhancement Course SEC 1	UCHITS11	Introduction to Tourism	2	2	3	25	75	100
IV	Foundation Course	UCHITF11	Introduction to History	2	2	3	25	75	100
	Ability Enhancement UCSST		Soft Skill I	2	2	3	25	75	100
			TOTAL	30	23	-	200	600	800
	0		SEMESTER II	1		ı	T	ı	
	Generic Elective	UCTATL21	Tamil II			3 3	25	75	
	Tamil/	UCURTL21 UCARTL21	Urdu II Arabic II	6	3				100
•	Language (To choose 1			•				'	
	out of 4)	UCHDTL21	Hindi II						
II	English	UCENTL21	English II	4	3	3	25	75	100
	Core Course 3	UCHITC21	History of Medieval India – 1206-1707 CE	5	4	3	25	75	100
Ш	Core Course 4	UCHITC22	History of Tamil Nadu – 1311 – 1800 CE	5	4	3	25	75	100
	Elective 2	UCHITA21	Allied: Western Political Thought	4	3	3	25	75	100
	Skill Enhancement Course SEC 2	UCHITS21	Indian Constitution	2	2	3	25	75	100
IV	Skill Enhancement Course SEC 3	UCHITS22	Basic Journalism	2	2	3	25	75	100
	Ability Enhancement Course AEC2	UCSSTM21	Soft Skill II	2	2	3	25	75	100
			TOTAL	30	23	-	200	600	800

			SEMESTER III						
ı	Generic Elective Tamil/ Language (To choose 1 out of 4)	UCTATL31 UCURTL31 UCARTL31 UCHDTL31	Tamil III Urdu III Arabic III Hindi III	6	3	3	25	75	100
II	English	UCENTL31	English III	4	3	3	25	75	100
	Core Course 5	UCHITC31	History of India -1707- 1857 CE	5	4	3	25	75	100
Ш	Core Course 6	UCHITC32	History of Tamil Nadu since 1801 CE	4	4	3	25	75	100
	Elective 3	UCHITA31	Allied: Indian Political Thought	5	4	3	25	75	100
	Skill Enhancement Course SEC 4	UCHITS31	Entrepreneurship Development	2	1	3	25	75	100
IV	Skill Enhancement Course SEC 5 [Online Exam]	UCHIOS32	Introduction to Management	1	1	2	25	75	100
	EVS	-	Environmental Studies	1	-	-	-	-	-
	Ability Enhancement Course AEC3	UCSSTM31	Soft Skill III	2	2	3	25	75	100
			TOTAL	30	22	-	200	600	800

SEMESTER IV												
ı	Generic Elective Tamil/ Language (To choose 1 out of 4)	UCTATL41 UCURTL41 UCARTL41 UCHDTL41	Tamil IV Urdu IV Arabic IV Hindi IV	6	3	3	25	75	100			
II	English	UCENTL41	English I	4	3	3	25	75	100			
	Core Course 7	UCHITC41	Freedom Struggle in India	5	4	3	25	75	100			
III	Core Course 8	UCHITC42	History of Modern Europe- 1789-1919 CE	5	4	3	25	75	100			
	Elective 4	UCHITA41	Allied: Modern Governments	3	3	3	25	75	100			
	Skill Enhancement Course SEC 6	UCHITS41	Computer Training	2	2	3	25	75	100			
IV	Skill Enhancement Course SEC 7	UCHITS42	Tourism and Hotel Management	2	2	3	25	75	100			
	EVS [Online Exam]	UCESOM41	Environmental Studies	1	2	2	25	75	100			
	Ability Enhancement Course AEC4	UCSSTM41	Soft Skill IV	2	2	3	25	75	100			
			TOTAL	30	25	-	225	675	900			
			SEMESTER V									

		Т					1	1	
	Core Course 9	UCHITC51	History of the World 1919-2020 CE	5	4	3	25	75	100
	Core Course 10	UCHITC52	Selected Themes in History of U.S.A	5	4	3	25	75	100
	Core Course 11	UCHITC53	Regional History (History of Chennai)	4	4	3	25	75	100
Ш	Core Course 12	UCHIJC51	Project with Viva voce	4	4	3	25	75	100
	Discipline Specific Elective 1	UCHITE51/ UCHITE52	Elements of Human Rights/ History of the Arabs from CE 500 to 750	4	3	3	25	75	100
	Discipline Specific Elective 2	UCHITE53/ UCHITE54	History of Dravidian Movement/History of Revolutions	4	3	3	25	75	100
	VED [Online Exam]	UCVEOM51	Value Education	2	2	2	25	75	100
IV	Summer Internship/Indu strial Training	UCHIIM51	Internship/ Industrial Training	2	2	3	25	75	100
			TOTAL	30	26	-	200	600	800
			SEMESTER VI						
	Core	LICUITOCA	Contemporary History		_		25	75	100
	Course 13	UCHITC61	of India	6	5	3	25	75	100
	Core Course 14	UCHITC62	India and Her Neighbours	6	5	3	25	75	100
Ш	Core Course 15	UCHITA63	History of Science and Technology in India	6	3	3	25	75	100
•••	Discipline-Specific Elective 3	UCHITE61/ UCHITE62	International Relations since 1919/ History of the Arabs from CE 750 to 1258	5	3	3	25	75	100
	Discipline Specific Elective 4	UCHITE63/ UCHITE64	History of China and Japan/History of Pondicherry	2	2	3	25	75	100
IV	Professional Competency [Online Exam]	UCHIOP61	General Studies for Competitive Examinations	2	2	2	27	75	100
٧	Extension Activity	UCEXAM61	Extension Activity	-	1	-	25	75	100
	SWAYAM / NAAN I	u MUDHALVAN/O	ıline Spoken Tutorial by II	T Bomba	ı ıy – MO	OC[M	andatory C	Online Cou	rse to
	be eligible for obtai	· · · · · · · · · · · · · · · · · · ·	·						
			TOTAL	30	21	-	175	525	700
			Grand Total	180	140	-	1200	3600	4800

PROGRAMME OUTCOMES FOR BACHELOR OF BUSINESS ADMINISTRATION, B.Com. GENERAL, B.Com. COMPUTER APPLICATIONS AND B.Com. FINANCE & ACCOUNTS

PROGRAMME OUTCOMES:

- PO1: Disciplinary knowledge: Capable of demonstrating comprehensive knowledge and understanding of one or more disciplines that form a part of Commerce and Management.
- PO2: Communication Skills: Ability to express thoughts and ideas effectively in writing and orally; Communicate with others using appropriate media; confidently share one's views and express herself/himself; demonstrate the ability to listen carefully, read and write analytically, and present complex information clearly and concisely to different groups.
- PO3: Critical thinking: Capability to apply analytic thought to a body of knowledge; analyse and evaluate evidence, arguments, claims, and beliefs based on empirical evidence; identify relevant assumptions or implications; formulate coherent arguments; critically evaluate practices, policies and theories by following a scientific approach to knowledge development.
- PO4: Problem-solving: Capacity to extrapolate from what one has learned and apply competencies to solve different kinds of non-familiar problems, rather than replicate curriculum content knowledge; and apply one's learning to real-life situations.
- PO5: Analytical reasoning: Ability to evaluate the reliability and relevance of evidence; identify logical flaws and holes in the arguments of others; analyze and synthesize data from a variety of sources; draw valid conclusions and support them with evidence and examples, and address opposing viewpoints.
- PO6: Research-related skills: A sense of inquiry and capability for asking relevant/appropriate questions, problem arising, synthesising and articulating; Ability to recognise cause-and-effect relationships, define problems, formulate hypotheses, test hypotheses, analyse, interpret and draw conclusions from data, establish hypotheses, predict cause-and-effect relationships; ability to plan, execute and report the results of an experiment or investigation
- PO7: Cooperation/Teamwork: Ability to work effectively and respectfully with diverse teams; facilitate cooperative or coordinated effort on the part of a group, and act together as a group or a team in the interests of a common cause and work efficiently as a member of a team
- PO8: Scientific reasoning: Ability to analyse, interpret and draw conclusions from quantitative/qualitative data; and critically evaluate ideas, evidence and experiences from an open-minded and reasoned perspective.
- PO9: Reflective thinking: Critical sensibility to lived experiences, with self-awareness and reflexivity of both self and society.
- PO10 Information/digital literacy: Capability to use ICT in a variety of learning situations, demonstrate ability to access, evaluate, and use a variety of relevant information sources; and use appropriate software for analysis of data.

- PO11 Self-directed learning: Ability to work independently, identify appropriate resources required for a project, and manage a project through to completion.
- PO12 Multicultural competence: Possess knowledge of the values and beliefs of multiple cultures and a global perspective; and capability to effectively engage in a multicultural society and interact respectfully with diverse groups.
- PO13: Moral and ethical awareness/reasoning: Ability to embrace moral/ethical values in conducting one's life, formulate a position/argument about an ethical issue from multiple perspectives, and use ethical practices in all work. Capable of demon starting the ability to identify ethical issues related to one's work, avoid unethical behaviour such as fabrication, falsification or misrepresentation of data or committing plagiarism, not adhering to intellectual property rights; appreciating environmental and sustainability issues; and adopting objective, unbiased and truthful actions in all aspects of work.
- PO14: Leadership readiness/qualities: Capability for mapping out the tasks of a team or an organization, setting direction, formulating an inspiring vision, building a team who can help achieve the vision, motivating and inspiring team members to engage with that vision, and using management skills to guide people to the right destination, smoothly and efficiently.
- PO15: Lifelong learning: Ability to acquire knowledge and skills, including "learning how to learn", that is necessary for participating in learning activities throughout life, through self-paced and self-directed learning aimed at personal development, meeting economic, social and cultural objectives, and adapting to changing trades and demands of the workplace through knowledge/skill development/rescaling.

PROGRAMME SPECIFIC OUTCOMES:

- PSO1: Develop a strong foundation in management principles and theories, gaining comprehensive knowledge of various domains within the field of business administration.
- PSO2: Cultivate effective communication skills, both written and oral, enabling students to articulate their thoughts and ideas clearly and persuasively in professional settings.
- PSO3: Acquire advanced digital and managerial skills, empowering students to adapt to the rapidly evolving business landscape and excel in diverse managerial roles.
- PSO4: Foster a deep understanding of ethical and moral values, enabling students to make principled decisions and uphold integrity in their personal and professional lives.
- PSO5: Nurture critical thinking abilities, empowering students to analyze complex business challenges, devise innovative solutions, and address diverse perspectives effectively.
- PSO6: Develop research-related skills, promoting an inquisitive mindset, and the ability to investigate business-related issues, gather relevant data, and draw meaningful conclusions.

- PSO7: Cultivate cooperation and teamwork abilities, fostering effective collaboration in diverse teams to achieve common objectives.
- PSO8: Enhance scientific reasoning, enabling students to analyze and interpret quantitative and qualitative data to support informed business decisions.
- PSO9: Encourage reflective thinking, promoting self-awareness and sensitivity to societal impacts in the context of management practices.
- PSO10: Instill information and digital literacy, equipping students with the capability to access, evaluate, and utilize information effectively in a technology-driven business environment.
- PSO11: Develop self-directed learning skills, empowering students to take initiative, identify resources, and manage projects independently for continuous personal and professional growth.
- PSO12: Cultivate multicultural competence, fostering an appreciation for diverse cultural values and perspectives, and the ability to engage respectfully in a globalized business environment.
- PSO13: Foster moral and ethical awareness, promoting responsible and principled conduct in various business scenarios, and adhering to ethical practices and environmental sustainability.
- PSO14: Cultivate leadership readiness and qualities, enabling students to map out tasks, formulate inspiring visions, build effective teams, and guide them towards successful outcomes.
- PSO15: Instill a commitment to lifelong learning, equipping students with the ability to adapt to evolving demands and acquire new knowledge and skills throughout their professional journeys.

BUSINESS ADMINISTRATION [BBA] PO – PSO MAPPING

Correlation Matrix		POs (Commerce & Management Programmes)													
PSOs (BBA)	PO 1 Discipline Knowledge	PO 2 Communication Skill	PO 3 Critical Thinking	PO 4 Problem Solving	PO 5 Analytical Skill	PO 6 Research Skill	PO 7 Teamwork	PO 8 Scientific Reasoning	PO 9 Reflective Thinking	PO 10 Digital Skill	PO 11 Self Learning	PO 12 Diverse Competence	PO 13 Moral Values	PO 14 Leadership	PO 15 Lifelong Learning
PO1	3	1	1	1	1	3	1	1	1	1	2	1	1	1	1
PO2	1	3	1	1	1	1	2	1	1	1	2	2	1	3	2
PO3	1	1	3	1	1	1	2	2	1	3	2	1	1	1	2
PO4	1	1	1	3	1	1	2	1	2	1	2	1	3	1	2
PO5	1	1	1	1	3	1	2	1	3	1	1	2	1	1	2
PO6	3	1	1	1	1	3	2	1	1	1	2	1	1	1	2
PO7	1	2	2	2	2	2	3	1	2	1	3	2	1	1	2

PO8	1	1	2	1	2	1	1	3	1	3	1	1	2	1	2
PO9	1	1	1	2	1	1	2	1	3	1	2	2	1	1	2
PO10	1	1	3	1	1	1	1	3	1	3	2	1	3	1	2
PO11	2	2	2	2	2	2	3	1	2	2	3	2	1	3	2
PO12	1	2	2	1	1	1	2	1	2	1	1	3	1	1	2
PO13	1	1	1	3	1	1	1	2	2	3	1	1	3	1	2
PO14	1	3	1	1	1	1	1	1	1	1	3	1	3	3	2
PO15	2	2	2	2	2	2	3	2	2	2	3	2	1	2	3

3 - Strong, 2- Medium, 1- Low

Overall, there is a strong correlation between several Program Outcomes (POs) and their corresponding Program Specific Outcomes (PSOs). The program seems to be well-designed to align the general learning objectives (POs) with the specific outcomes tailored to the field of Commerce and Management (PSOs). Some POs have a medium correlation, indicating that they may contribute to multiple PSOs without a direct one-to-one relationship. The overall alignment between the POs and PSOs suggests that the program is likely to provide students with a comprehensive and well-rounded education in Business Administration.

			CTURE FOR BUSINESS ADMI		-	-			
Part	Category	Course Code	Course Title	Hrs./Week	Credit	Exam. Hrs.	CIA	ESE	TOTAL
			Semester I		•				
	Generic Elective	UCTATL11	Tamil I						
ı	Languages	UCURTL11	Urdu I	6	3	3	25	75	100
•	(To choose 1 out	UCARTL11	Arabic I	0	3	3	25	/5	100
	of 4)	UCHDTL11	Hindi I						
II	English	UCENTL11	English I	4	3	3	25	75	100
	Core Course 1	UCBATC11	Principles of Management	5	4	3	25	75	100
Ш	Core Course 2	UCBATC12	Accounting for Managers I	5	4	3	25	75	100
	Elective 1	UCBATA11	Allied: Managerial Economics	4	3	3	25	75	100
	Skill Enhancement Course SEC 1	UCBATS11	Managerial Communication	2	2	3	25	75	100
IV	Foundation Course	UCBATF11	Basics of Event Management	2	2	3	25	75	100
	Ability Enhancement Course AEC1	UCSSTM11	Soft Skill I	2	2	3	25	75	100
			TOTAL	30	23	-	200	600	800
			Semester II						
	Generic Elective	UCTATL21	Tamil II						
ı	Languages	UCURTL21	Urdu II	6	3	3	25	75	100
•	(To choose 1 out of 4)	UCARTL21	Arabic II	ľ				, ,	200
	-	UCHDTL21	Hindi II						400
II	English	UCENTL21	English II	4	3	3	25	75	100
	Core Course 3 Core Course 4	UCBATC21	Marketing management	5	4	3	25	75	100
III		UCBATC22	Accounting for Managers II	5	4	3	25	75	100
	Elective 2 Skill	UCBATA21	Allied: International Business	4	3	3	25	75	100
	Enhancement Course SEC 2	UCBATS21	Managerial Skill Development	2	2	3	25	75	100
IV	Skill Enhancement Course SEC 3	UCBATS22	Business Etiquette and Corporate Grooming	2	2	2	25	75	100
	Ability Enhancement Course AEC2	UCSSTM21	Soft Skill II	2	2	3	25	75	100
			TOTAL	30	23	-	200	600	800
			Semester III						
	Generic Elective	UCTATL31	Tamil III	-					
1	Languages (To choose 1 out	UCURTL31	Urdu III	6	3	3	25	75	100
	of 4)	UCARTL31	Arabic III						
II	•	UCHDTL31 UCENTL31	Hindi III	4	3	3	25	75	100
II	English Core Course 5	UCBATC31	English III Organisational Behaviour	5	4	3	25	75 75	100
III	Core Course 6	UCBATC31	Financial Management	4	4	3	25	75 75	100
111	Elective 3	UCBATC32	Allied: Business Statistics	5	4	3	25	75 75	100
	Skill	OCDATASI	Computer Applications in	,	4	3	23	/3	
IV	Enhancement	UCBATS31	Business	2	1	3	25	75	100

Course SEC 4								
Skill Enhancement Course SEC 5	UCBAPS32	Tally – Basis – Lab	1	1	2	25	75	100
EVS	-	Environmental Studies	1	-	-	-	-	-
Ability Enhancement Course AEC3	UCSSTM31	Soft Skill III	2	2	3	25	75	100
		TOTAL	30	22	ı	200	600	800

			Semester IV						
ı	Generic Elective Languages (To choose 1 out of 4)	UCTATL41 UCURTL41 UCARTL41	Tamil IV Urdu IV Arabic IV	6	3	3	25	75	100
II	English	UCHDTL41 UCENTL41	Hindi IV English I	4	3	3	25	75	100
"	Core Course 7	UCBATC41	Business Environment	5	4	3	25	75	100
Ш	Core Course 8	UCBATC42	Business Regulatory Frame Work	5	4	3	25	75	100
	Elective 4	UCBATA41	Allied: Operations Research	3	3	3	25	75	100
	Skill Enhancement Course SEC 6	UCBAPS41	Tally – Advanced Lab	2	2	3	25	75	100
IV	Skill Enhancement Course SEC 7	UCBATS42	Intellectual Property Rights	2	2	3	25	75	100
	EVS [Online Exam]	UCESOM41	Environmental Studies	1	2	2	25	75	100
	Ability Enhancement Course AEC4	UCSSTM41	Soft Skill IV	2	2	3	25	75	100
			TOTAL	30	25	-	200	600	800
			Semester V	T	1	1	T	T	
	Core Course 9	UCBATC51	Human Resource Management	5	4	3	25	75	100
	Core Course 10	UCBATC52	Research Methodology	5	4	3	25	75	100
	Core Course 11	UCBATC53	Business Taxation	4	4	3	25	75	100
III	Core Course 12	UCBATC54	Management Information System	4	4	3	25	75	100
	Discipline Specific Elective 1	UCBATE51/ UCBATE52/ UCBATE53	Digital Marketing/Industrial Relations/Financial Services	4	3	3	25	75	100
	Discipline Specific Elective 2	UCBAJC51	Project with Viva voce	4	3	3	25	75	100
	VED [Online Exam]	UCVEOM51	Value Education	2	2	2	25	75	100
IV	Summer Internship/ Industrial Training	UCBAIM51	Internship/Industrial Training	2	2	3	25	75	100
			TOTAL	30	26	-	200	600	800

_			Semester VI						
	Core Course 13	UCBATC61	Entrepreneurial Development	6	5	3	25	75	100
	Core Course 14	UCBATC62	Services Marketing	6	5	3	25	75	100
	Core Course 15	UCBATC63	Production and Material Management	6	3	3	25	75	100
, III	Discipline Specific Elective 3	UCBATE61/ UCBATE62/ UCBATE63	Consumer Behaviour/Innovation management/Security Analysis & Portfolio Management	5	3	3	25	75	100
	Discipline Specific Elective 4	UCBATE64/ UCBAPE65	Fundamentals of Logistics/ E-business/MS Office -Lab	5	2	3	25	75	100
IV	Professional Competency [Online Exam]	UCBAOP61	General Awareness for Competitive Examinations	2	2	2	25	75	100
V	Extension Activity	UCEXAM61	Extension Activity	-	1	-	25	75	100
	SWAYAM / NAAN N eligible for obtainir	-	lline Spoken Tutorial by IIT Bomba	ıy – MOC	C [Mand	atory	Online (Course to	be
			TOTAL	30	21	-	175	525	700
			Grand Total	180	140	-	1200	3600	4800

B.Com. GENERAL DEGREE PROGRAMME PROGRAMME SPECIFIC OUTCOMES:

PSO1 – Placement: To prepare the students who will demonstrate respectful engagement with others' ideas, behaviours, and beliefs and apply diverse frames of reference to decisions and actions.

PSO 2 - Entrepreneur: To create effective entrepreneurs by enhancing their critical thinking, problem-solving, decision making and leadership skill that will facilitate startups and high-potential organizations PSO3 — Research and Development: Design and implement HR systems and practices grounded in research that complies with employment laws, leading the organization towards growth and development.

PSO4 – Contribution to Business World: To produce employable, ethical and innovative professionals to sustain in the dynamic business world.

PSO5 – Contribution to the Society: To contribute to the development of society by collaborating with stakeholders for mutual benefit

MAPPING OF PSOS WITH POS

РО			PSO		
	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
PO 1	3	3	1	3	3
PO 2	3	3	1	3	2
PO 3	2	2	2	2	1
PO 4	3	3	1	3	3
PO 5	2	2	1	2	2
PO 6	1	1	1	1	1
PO 7	2	2	2	2	2
PO 8	1	1	2	2	2
PO 9	1	1	2	2	2
PO 10	3	3	3	3	3
PO 11	2	1	2	2	2
PO 12	1	2	1	1	1
PO 13	2	3	2	3	3
PO 14	2	3	2	3	2
PO 15	2	2	1	2	2
Total	30	32	23	34	31
Average	2	2.13	1.92	2.27	2.07

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COURSE STRUCTURE FOR B.Com. (For Students admitted from the academic year 2023-2024) Hrs. Hrs./Week Credit TOTAL Part S ESE Exam. Category **Course Code Course Title SEMESTER I** Generic **UCTATL11** Tamil I **Elective** Urdu I **UCURTL11** Tamil/ 6 3 3 25 75 100 ı Language **UCARTL11** Arabic I (To choose 1 Hindi I UCHDTL11 out of 4) **English I** Ш **English UCENTL11** 4 3 3 25 75 100 **Financial** Core UCCOTC11 5 4 3 25 **75** 100 Course 1 Accounting I **Principles of** Core UCCOTC12 5 4 3 25 **75** 100 Course 2 Management Ш Allied: Business UCCOTA11/ **Economics/Indian Elective 1** UCCOTA12/ **Economic** 4 3 3 25 **75** 100 UCCOTA13 Development/ **Business Organisation** Skill 3 **Enhancement** UCCOTS11 **E-Business** 2 2 25 **75** 100 Course SEC 1 **Foundation** IV UCCOTF11 **Basics of Commerce** 2 2 3 25 **75** 100 Course **Ability Enhancement** UCSSTM11 Soft Skill I 2 2 3 25 75 100 Course AEC1 23 600 800 **TOTAL** 30 200 **SEMESTER II** Generic **UCTATL21** Tamil II **Elective UCURTL21** Urdu II Tamil/ 6 3 3 25 **75** 100 I Language **UCARTL21** Arabic II (To choose 1 UCHDTL21 Hindi II out of 4) **English II** 3 **75** 100 Ш **English UCTENL21** 3 25 4 Core **Financial** 3 UCCOTC21 5 4 25 75 100 Course 3 **Accounting II** Core UCCOTC22 **Business Law** 5 4 3 25 75 100 Course 4 Ш **Allied: Business** Environment/ UCCOTA21/ **Elective 2 Insurance and Risk** 4 3 3 25 **75** 100 UCCOTA22/ Management/Internati UCCOTA23 onal Trade Skill **Computer Literacy in Enhancement** UCCOPS21 2 2 3 25 75 100 Commerce - Lab Course SEC 2 IV Skill **Business Enhancement** UCCOTS22 2 2 3 25 **75** 100 Communication Course SEC 3

Ī	Ability								
	Enhancement	UCSSTM21	Soft Skill II	2	2	3	25	75	100
	Course AEC2		TOTAL	30	23	_	200	600	800
			SEMESTER III	30	23	-	200	000	800
	Generic Elective	UCTATL31	Tamil III		I				
	Tamil/	UCURTL31	Urdu III				25		400
ı	Language (To choose 1	UCARTL31	Arabic III	6	3	3	25	75	100
	out of 4)	UCHDTL31	Hindi III						
II	English	UCENTL31	English III	4	3	3	25	75	100
	Core Course 5	UCCOTC31	Corporate Accounting I	5	4	3	25	75	100
Ш	Core Course 6	UCCOTC32	Company Law	4	4	3	25	75	100
	Elective 3	UCCOTA31 / UCCOTA32 / UCCOTA33	Allied: Business Mathematics & Statistics / Business Legislation/ E-Commerce	5	4	3	25	75	100
	Skill Enhancement Course SEC 4	UCCOPS31	Computerised Accounting I - Lab	2	1	3	25	75	100
IV	Skill Enhancement Course SEC 5 [Online Exam]	UCCOOS32	Personality Development	1	1	2	25	75	100
	EVS		Environmental Studies	1	-	-	-	-	-
	Ability Enhancement Course AEC3	UCSSTM31	Soft Skill III	2	2	3	25	75	100
			TOTAL	30	22	-	200	600	800
			SEMESTER IV						
	Generic Elective	UCTATL41	Tamil IV	-					
ı	Tamil/ Language	UCURTL41	Tamil IV Urdu IV	6	3	3	25	75	100
ı	Tamil/ Language (To choose 1	UCURTL41 UCARTL41	Tamil IV Urdu IV Arabic IV	6	3	3	25	75	100
	Tamil/ Language (To choose 1 out of 4)	UCURTL41 UCARTL41 UCHDTL41	Tamil IV Urdu IV Arabic IV Hindi IV				_		
1	Tamil/ Language (To choose 1 out of 4) English Core	UCURTL41 UCARTL41	Tamil IV Urdu IV Arabic IV Hindi IV English I Corporate	6 4 5	3 3 4	3 3 3	25 25 25	75 75 75	100 100 100
II	Tamil/ Language (To choose 1 out of 4) English	UCURTL41 UCARTL41 UCHDTL41 UCENTL41	Tamil IV Urdu IV Arabic IV Hindi IV English I	4	3	3	25	75	100
	Tamil/ Language (To choose 1 out of 4) English Core Course 7 Core	UCURTL41 UCARTL41 UCHDTL41 UCENTL41 UCCOTC41	Tamil IV Urdu IV Arabic IV Hindi IV English I Corporate Accounting II	4 5	3 4	3	25 25	75 75	100
II	Tamil/ Language (To choose 1 out of 4) English Core Course 7 Core Course 8	UCURTL41 UCARTL41 UCHDTL41 UCENTL41 UCCOTC41 UCCOTC42 UCCOTA41 / UCCOTA42 /	Tamil IV Urdu IV Arabic IV Hindi IV English I Corporate Accounting II Principles of Marketing Allied: Financial Services/Consumerism & Consumer Protection/Operations	5	3 4	3 3	25 25 25	75 75 75	100 100 100
II	Tamil/ Language (To choose 1 out of 4) English Core Course 7 Core Course 8 Elective 4 Skill Enhancement Course SEC 6 Skill Enhancement Course SEC 7	UCURTL41 UCARTL41 UCHDTL41 UCENTL41 UCCOTC41 UCCOTC42 UCCOTA41 / UCCOTA42 / UCCOTA43	Tamil IV Urdu IV Arabic IV Hindi IV English I Corporate Accounting II Principles of Marketing Allied: Financial Services/Consumerism & Consumer Protection/Operations Research Computerised Accounting II —	5 5	3 4 4 3	3 3 3	25 25 25 25	75 75 75 75	100 100 100 100
III	Tamil/ Language (To choose 1 out of 4) English Core Course 7 Core Course 8 Elective 4 Skill Enhancement Course SEC 6 Skill Enhancement Course SEC 7 EVS [Online Exam]	UCURTL41 UCARTL41 UCHDTL41 UCENTL41 UCCOTC41 UCCOTC42 UCCOTA41 / UCCOTA42 / UCCOTA43 UCCOPS41	Tamil IV Urdu IV Arabic IV Hindi IV English I Corporate Accounting II Principles of Marketing Allied: Financial Services/Consumerism & Consumer Protection/Operations Research Computerised Accounting II – Tally Lab	4 5 5 3	3 4 4 3	3 3 3	25 25 25 25 25	75 75 75 75	100 100 100 100
III	Tamil/ Language (To choose 1 out of 4) English Core Course 7 Core Course 8 Elective 4 Skill Enhancement Course SEC 6 Skill Enhancement Course SEC 7 EVS [Online	UCURTL41 UCARTL41 UCHDTL41 UCENTL41 UCCOTC41 UCCOTC42 UCCOTA41 / UCCOTA42 / UCCOTA43 UCCOTA43 UCCOTS42	Tamil IV Urdu IV Arabic IV Hindi IV English I Corporate Accounting II Principles of Marketing Allied: Financial Services/Consumerism & Consumer Protection/Operations Research Computerised Accounting II — Tally Lab Employability Skills	4 5 5 3	3 4 4 3 2	3 3 3 3	25 25 25 25 25 25	75 75 75 75 75	100 100 100 100 100

			SEMESTER V						
	Core Course 9	UCCOTC51	Cost Accounting I	5	4	3	25	75	100
	Core Course 10	UCCOTC52	Banking Law and Practice	5	4	3	25	75	100
	Core Course 11	UCCOTC53	Income Tax Law and Practice I	4	4	3	25	75	100
III	Core Course 12	UCCOJC51 / UCCOTC54	Project with Viva Voce/Auditing and Corporate Governance	4	4	3	25	75	100
	Discipline Specific Elective 1	UCCOTE51/ UCCOTE52	Financial Management/ Indirect Taxation	4	3	3	25	75	100
	Discipline Specific Elective 2	UCCOTE53/ UCCOTE54	Human Resource Management/ Office Management & Secretarial Practice	4	3	3	25	75	100
	VED [Online Exam]	UCVEOM51	Value Education	2	2	2	25	75	100
IV	Summer Internship/Indu strial Training	UCCOIM51	Internship/ Industrial Training	2	2	3	25	75	100
			TOTAL	30	26	-	200	600	800
			Semester VI					1	
	Core Course 13	UCCOTC61	Cost Accounting II	6	5	3	25	75	100
	Core Course 14	UCCOTC62	Management Accounting	6	5	3	25	75	100
	Core Course 15	UCCOTC63	Income Tax Law and Practice II	6	3	3	25	75	100
III	Discipline Specific Elective 3	UCCOTE61/ UCCOPE62	Entrepreneurial Development/ Computer Application in Business - Lab	5	3	3	25	75	100
	Discipline Specific Elective 4	UCCOPE63/ UCCOTE64	Spreadsheet for Business - Lab / Logistics and Supply Chain Management/	5	2	3	25	75	100
IV	Professional Competency [Online exam]	UCCOOP61	General Awareness for Competitive Examinations	2	2	2	25	75	100
V	Extension Activity	UCEXAM61	Extension Activity	-	1	_	25	75	100
	SWAYAM / NAAI	N MUDHALVAN/O	nline Spoken Tutorial by IIT B e]	ombay –	- MOOC[Mand	atory Onli	ne Cours	e to be
			TOTAL	30	21	-	175	525	700

B.Com. COMPUTER APPLICATION PROGRAMME SPECIFIC OUTCOMES:

PSO1 – Placement: To prepare the students who will demonstrate respectful engagement with others' ideas, behaviours, and beliefs and apply diverse frames of reference to decisions and actions.

PSO 2 - Entrepreneur: To create effective entrepreneurs by enhancing their critical thinking, problem-solving, decision making and leadership skill that will facilitate startups and high-potential organizations

PSO3 – Research and Development: Design and implement HR systems and practices grounded in research that comply with employment laws, leading the organization towards growth and development.

PSO4 – Contribution to Business World: To produce employable, ethical and innovative professionals to sustain in the dynamic business world.

PSO 5 — Contribution to the Society: To contribute to the development of society by collaborating with stakeholders for mutual benefit

PSO6: Conduct business by adhering to various Legal and Regulatory Guidelines in the digital era.

PSO7: Exhibit Entrepreneurship Skills.

PSO8: Apply Optimal Costing Methods for better decision-making.

PSO9: Apply Income Tax Provision to estimate the Tax Liability of Individuals and MSMEs.

PSO10: Perform Business Activities efficiently and effectively in the digital Era with the help of ICT.

MAPPING OF PROGRAMME-SPECIFIC OUTCOMES WITH PROGRAMME OUTCOMES

Program Specific Outcomes(PS Os)	Program Outcomes (POs)									
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
PSO1	✓	✓	✓	✓	✓	✓	✓	✓	✓	√
PSO2	✓	✓	✓	✓		✓			✓	
PSO3	✓	✓		✓		✓				
PSO4	✓	✓		✓		✓	✓		✓	
PSO5	✓	✓	✓	✓		✓				
PSO6	✓	✓						✓		✓
PSO7	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
PSO8	✓			✓		✓	✓	✓		
PSO9	✓	✓	✓	✓		✓		✓		
PSO10	✓	✓	✓	✓	✓	✓	✓		✓	

MAPPING BENCHMARK

Mapping	1-30%	31-60%	61-70%	71-100%
Matches	1-30	31-60	61-70	71-100
Correlation	Poor	Moderate	High	Very High

	_		TURE FOR B.Com. COMPU		_	_	_									
Part	Category	Course Code	Course Title	Hrs./Week	Credit	Exam. Hrs.	CIA	ESE	TOTAL							
			SEMESTER I	ı		ı										
	Generic Elective	UCTATL11	Tamil I													
ı	Languages	UCURTL11	Urdu I	6	3	3	25	75	100							
-	(To choose 1 out of 4)	UCARTL11	Arabic I	-												
		UCHDTL11	Hindi I			_										
II	English	UCENTL11	English I	4	3	3	25	75	100							
	Core Course 1	UCCATC11	Financial Accounting I	5	4	3	25	75	100							
Ш	Core Course 2	UCCATC12	Principles of Management	5	4	3	25	75	100							
	Elective 1	UCCAPA11/ UCCAPA12/	Allied: Office Automation and Lab/Programming in C and Lab	4	3	3	25	75	100							
	Skill Enhancement Course SEC 1	UCCATS11	Indian Constitution	2	2	3	25	75	100							
IV	Foundation Course	UCCATF11	Economics for Management	2	2	2	25	75	100							
	Ability Enhancement Course AEC1	UCSSTM11	Soft Skills I	2	2	3	25	75	100							
			TOTAL	30	23	-	200	600	800							
			SEMESTER II	T		1	T									
	Generic Elective	UCTATL21	Tamil II													
	Languages	UCURTL21	Urdu II	6 2	6 3	6	6	2	2	2	•	9	3	25	75	100
'	(To choose 1 out of 4)	UCARTL21	Arabic II	0	3	3	25	/5	100							
IV	J,	UCHDTL21	Hindi II													
II	English	UCENTL21	English II	4	3	3	25	75	100							
	Core Course 3	UCCATC21	Financial Accounting II	5	4	3	25	75	100							
	Core Course 4	UCCATC22	Business Law	5	4	3	25	75	100							
III	Elective 2	UCCAPA21/ UCCAPA22	Allied: Python Programming and Lab / Programming in C ++ and Lab	4	3	3	25	75	100							
	Skill Enhancement Course SEC 2	UCCATS21	Consumer welfare	2	2	3	25	75	100							
IV	Skill Enhancement Course SEC 3	UCCATS22	Digital Marketing	2	2	2	25	75	100							
	Ability Enhancement Course AEC2	UCSSTM21	Soft Skills II	2	2	3	25	75	100							
			TOTAL	30	23	-	200	600	800							
SEMESTER III																
I	Generic Elective	UCTATL31	Tamil III	6	3	3	25	75	100							

	Languages	UCURTL31	Urdu III						
	(To choose 1 out of 4)	UCARTL31	Arabic III						
	0,	UCHDTL31	Hindi III						
П	English	UCENTL31	English III	4	3	3	25	75	100
	Core Course 5	UCCATC31	Corporate Accounting I	5	4	3	25	75	100
	Core Course 6	UCCATC32	Business Mathematics & Statistics	5	4	3	25	75	100
III	Elective 3	UCCAPA31/ UCCAPA32	Allied: Web Technology (PHP) and Lab /Programming in JAVA and Lab	4	4	3	25	75	100
	Skill Enhancement Course SEC 4	UCCATS31	Customer Relationship Management with IT	2	1	3	25	75	100
IV	Skill Enhancement Course SEC 5 [Online Exam]	UCCAOS32	Computerized Management Information System (CMIS)	1	1	2	25	75	100
	EVS	-	Environmental Studies	1	1	-	1	1	-
	Ability Enhancement Course AEC3	UCSSTM31	Soft Skills III	2	2	3	25	75	100
			TOTAL	30	22	-	200	600	800

	SEMESTER IV											
ı	Generic Elective Languages	UCTATL41 UCURTL41	Tamil IV Urdu IV	6	3	3	25	75	100			
-	(To choose 1 out of 4)	UCARTL41 UCHDTL41	Arabic IV Hindi IV)		, 0				
II	English	UCENTL41	English I	4	3	3	25	75	100			
	Core Course 7	UCCATC41	Corporate Accounting II	5	4	3	25	75	100			
	Core Course 8	UCCATC42	Company Law	5	4	3	25	75	100			
III	Elective 4	UCCATA41/ UCCATA42	Allied: Introduction to Data Science/Relational Database Management System	3	3	3	25	75	100			
	Skill Enhancement Course SEC 6	UCCATS41	Enterprise Resource Planning with IT	2	2	3	25	75	100			
IV	Skill Enhancement Course SEC 7	UCCATS42	Computer Applications in Finance	2	2	2	25	75	100			
	EVS [Online Exam]	UCESOM41	Environmental Studies	1	2	2	25	75	100			
	Ability Enhancement Course AEC4	UCSSTM41	Soft Skills IV	2	2	3	25	75	100			
			TOTAL	30	25	-	225	675	900			
	•		SEMESTER V									
Ш	Core Course 9	UCCATC51	Cost Accounting I	5	4	3	25	75	100			

			Grand Total	180	140	-	1200	3600	4800
			TOTAL	30	21	-	175	525	700
		N MUDHALVAN/O ning the UG degre	nline Spoken Tutorial by IIT Bo e]	mbay – I) 200M	Manda	atory Onlin	ne Course	e to be
V	Extension Activity	UCEXAM61	Extension Activity	-	1	-	25	75	100
IV	Professional Competency	UCCAOP61	General Awareness for Competitive Examinations	2	2	3	25	75	100
	Discipline Specific Elective 8	UCCAPE63/ UCCAPE64	Practical Tally /R Language	5	3	3	25	75	100
III	Discipline Specific Elective 7	UCCATE61/ UCCATE62	Entrepreneurial Development/Human Resource management	5	3	3	25	75	100
	Core Course 15	UCCATA63	Income Tax Law and Practice II	6	4	3	25	75	100
	Core Course 14	UCCATC62	Management Accounting	6	4	3	25	75	100
	Core Course 13	UCCATC61	Cost Accounting II	6	4	3	25	75	100
			SEMESTER VI	30	20		200	000	800
. •	Internship/Indu strial Training	UCCAIM51	Internship/Industrial Training TOTAL	2 30	2 26	3	25 200	75 600	100 800
IV	VED [Online Exam] Summer	UCVEOM51	Value Education	2	2	2	25	75	100
	Discipline Specific Elective 6	UCCAPE53/ UCCAPE54	Software Engineering+(UML Lab)/Object oriented Analysis and Design+(UML Lab)	4	3	3	25	75	100
	Discipline Specific Elective 5	UCCATE51/ UCCATE52	Indirect Taxation/ Financial Management	4	3	3	25	75	100
	Core Course 12	UCCAJC51/ UCCATC54	Project with Viva Voce Auditing /Corporate Governance	4	4	3	25	75	100
	Core Course 11	UCCATC53	Income Tax Law and Practice I	4	4	3	25	75	100
	Core Course 10	UCCATC52	Banking Law and Practice	5	4	3	25	75	100

B.Com [Finance & Accounts] PROGRAMME SPECIFIC OUTCOMES

PSO1 – Placement:

To prepare the students who will demonstrate respectful engagement with others' ideas, behaviours, and beliefs and apply diverse frames of reference to decisions and actions.

PSO 2 - Entrepreneur:

To create effective entrepreneurs by enhancing their critical thinking, problem-solving, decision making and leadership skill that will facilitate startups and high-potential organizations

PSO3 – Research and Development:

Design and implement HR systems and practices grounded in research that comply with employment laws, leading the organization towards growth and development.

PSO4 – Contribution to Business World:

To produce employable, ethical and innovative professionals to sustain in the dynamic business world.

PSO 5 – Contribution to the Society:

To contribute to the development of society by collaborating with stakeholders for mutual benefit

- PSO 6 Provide more exposure to modern aspects of the HR and Marketing field to develop decision-making skills
- PSO 7 Equip with knowledge of legal framework in the context of the business, company, and various industries
- PSO 8 Understand the importance of communication and writing necessary reports in the daily routine of business
- PSO 9 Computer applications and computerized accounting, like e-filing and different tax return training, will enable them to solve accounting problems
- PSO 10 Understand the statistical methods and techniques to solve various problems relating to another interdisciplinary arena, including research

MAPPING OF PROGRAMME-SPECIFIC OUTCOMES WITH PROGRAMME OUTCOMES

Programme Program Out Comes (POs)	
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Specific Outcomes (PSO)	PO1	PO2	РОЗ	PO4	PO5	PO6	PO7	PO8	PO9	PO10	
PSO1	V	V	V	V		V	V	V		V	
PSO2	٧	٧	٧	٧	٧	٧	٧		٧	٧	
PSO3	٧	٧	٧	٧	٧	٧	٧				
PSO4	٧	٧	٧	٧	٧	٧	٧	٧		٧	
PSO5	٧	٧	٧	٧	٧	٧	٧		٧	٧	
PSO6	٧	٧	٧	٧		٧				٧	
PSO7	٧	٧	٧	٧	٧	٧	٧	٧	٧	٧	
PSO8	٧	٧	٧	٧	٧		٧	٧		٧	
PSO9	٧	٧	٧	٧		٧		٧	٧	٧	
PSO10	٧	٧	٧	٧	٧	٧			٧	٧	
Correlated -Very	High	Correlated -Very High Total =82									

Mapping Bench Mark

Mapping	1-30%	31-60%	61-70%	71-100%
Matches	1-30	31-60	61-70	71-100
Correlation	Poor	Moderate	High	Very High

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	COURSE STRUCTURE for B.Com. FINANCE & ACCOUNTS (For the candidates admitted from the academic year 2023-2024)										
Part	Category	Course Code	Course Title	Hrs./Week	Credit	Exam. Hrs.	CIA	ESE	TOTAL		
	SEMESTER I										
ı	Generic Elective Languages (To choose 1 out of 4)	UCTATL11 UCURTL11 UCARTL11 UCHDTL11	Tamil I Urdu I Arabic I Hindi I	6	3	3	25	75	100		
II	English	UCENTL11	English I	4	3	3	25	75	100		
	Core Course 1	UCFATC11	Financial Accounting I	5	4	3	25	75	100		
	Core Course 2	UCFATC12	Principles of Management	5	4	3	25	75	100		
Ш	Elective 1	UCFATA11/ UCFATA12/ UCFATA13	Business Communication/ Indian Economic Development/ Business Economics	4	3	3	25	75	100		
	Skill Enhancement Course SEC1	UCFATS11	E-Commerce	2	2	3	25	75	100		
	Foundation Course	UCFATF11	Financial Markets	2	2	2	25	75	100		
IV	Ability Enhancement Course AEC1	UCSSTM11	Soft Skills I	2	2	3	25	75	100		

			TOTAL	30	23	-	200	600	800			
		I	SEMESTER II						l			
	Generic Elective	UCTATL21	Tamil II									
ı	Languages	UCURTL21	Urdu II	6	3	3	25	75	100			
'	(To choose 1	UCARTL21	Arabic II	0	3	3	25	/5	100			
	out of 4)	UCHDTL21	Hindi II									
II	English	UCENTL21	English II	4	3	3	25	75	100			
	Core Course 3	UCFATC21	Financial Accounting II	5	4	3	25	75	100			
Ш	Core Course 4	UCFATC22	Business Law	5	4	3	25	75	100			
•••	Elective 2	UCFATA21/ UCFATA22/ UCFATA23	Human Resource Management/ International Trade/ Working Capital Management	4	3	3	25	75	100			
	Skill Enhancement Course SEC2	UCFATS21	Financial Technology	2	2	3	25	75	100			
IV	Skill Enhancement Course SEC3	UCFATS22	Personal Finance	2	2	3	25	75	100			
ıv	Ability Enhancement Course 2	UCSSTM21	Soft Skills II	2	2	3	25	75	100			
			TOTAL	30	23	-	200	600	800			
SEMESTER III												
	Generic Elective	UCTATL31	Tamil III									
ı	Languages	UCURTL31 UCARTL31	Urdu III Arabic III	6	3	3	25	75	100			
	(To choose 1 out of 4)											
	·	UCHDTL31	Hindi III			_	25	7.5	400			
II	English	UCENTL31	English III	4	3	3	25	75	100			
	Core Course 5	UCFATC31	Corporate Accounting-I	5	4	3	25	75	100			
Ш	Core Course 6	UCFATC32	Company Law	4	4	3	25	75	100			
	Elective 3	UCFATA31/ UCFATA32/ UCFATA33	Fundamentals of Investment/ Financial Services/ Business Mathematics and Statistics.	5	4	3	25	75	100			
	Skill Enhancement Course SEC4	UCFATS31	Entrepreneurship Development	2	1	3	25	75	100			
IV	Skill Enhancement Course SEC5 [Online Exam]	UCFAOS32	Business Analytics	1	1	2	25	75	100			
	EVS	-	Environmental Studies	1	-	-	-	-	-			
	Ability Enhancement Course 3	UCSSTM31	Soft Skills III	2	2	3	25	75	100			
			TOTAL	30	22	-	200	600	800			
			SEMESTER IV									

		UCTATL41	Tamil IV						
١.	Generic Elective Languages	UCURTL41	Urdu IV	6	3	3	25	75	100
	(To choose 1 out of 4)	UCARTL41	Arabic IV	0	3	3	25	/5	100
	out 01 4)	UCHDTL41	Hindi IV						
II	English	UCENTL41	English IV	4	3	3	25	75	100
	Core Course 7	UCFATC41	Corporate Accounting-II	5	4	3	25	75	100
III	Core Course 8	UCFATC42	Principles of Marketing	5	4	3	25	75	100
	Elective 4	UCFATA41/ UCFATA42/ UCFATA43	Management Information System/Financial Derivatives/ Operation Research	3	3	3	25	75	100
	Skill Enhancement Course SEC6	UCFATS41	Digital Marketing	2	2	3	25	75	100
IV	Skill Enhancement Course SEC7	UCFAPS42	E-filing of Returns - Lab	2	2	3	25	75	100
	EVS [Online Exam]	UCESOM41	Environmental Studies	1	2	2	25	75	100
	Ability Enhancement Course 4	UCSSTM41	Soft Skills IV	2	2	3	25	75	100
			TOTAL	30	25	-	225	675	900

			SEMESTER V						
	Core Course 9	UCFATC51	Cost Accounting I	5	4	3	25	75	100
	Core Course 10	UCFATC52	Banking Law and Practice	5	4	3	25	75	100
	Core Course 11	UCFATC53	Income Tax Law and Practice I	4	4	3	25	75	100
Ш	Core Course 12	UCFAJC51/ UCFATC54	Project with Viva Voce/ Auditing and Corporate Governance	5	4	3	25	75	100
	Discipline - Specific Elective 1	UCFATE51/ UCFATE52	Financial Management/ Financials Reporting	4	3	3	25	75	100
	Discipline-Specific Elective 2	UCFATE53/ UCFATE54	Investment Analysis and Portfolio Management/ Merchant Banking	3	3	3	25	75	100
	VED [Online exam]	UCVEOM51	Value Education	2	2	2	25	75	100
IV	Summer Internship/Indu strial Training	UCFAIM51	Internship / Industrial Training	2	2	3	25	75	100
			TOTAL	30	26	-	200	600	800
			SEMESTER VI						
	Core Course 13	UCFATC61	Cost Accounting II	6	5	3	25	75	100
Ш	Core Course 14	UCFATC62	Management Accounting	6	5	3	25	75	100
	Core Course 15	UCFATC63	Income Tax Law and Practice II	6	3	3	25	75	100

	Discipline - Specific Elective 3	UCFATE61/ UCFAPE62	Indirect Taxation/Computer Applications in Business -Lab	5	3	3	25	75	100
	Discipline- Specific Elective 4	UCFATE63/ UCFAPE64	Indian Accounting Standard/ Spreadsheet for Business -Lab	5	2	3	25	75	100
IV	Professional Competency [Online Exam]	UCFAOP61	General Awareness for Competitive Examinations	2	2	2	25	75	100
V	Extension Activities	UCEXAM61	Extension Activities	-	1	-	25	75	100
	SWAYAM / NAAN be eligible for obta	-	line Spoken Tutorial by IIT ee]	Bombay	- MOO	C [Mar	ndatory On	line Cou	rse to
			TOTAL	30	21	-	175	525	700
			GRAND TOTAL	180	140	-	1200	3600	4800

PROGRAMME OUTCOMES FOR B.SC. PROGRAMMES [MATHEMATICS, PHYSICS AND CHEMISTRY]

- **PO1** Disciplinary knowledge: Capable of demonstrating comprehensive knowledge and understanding of one or more disciplines that form a part of an undergraduate Programme of study.
- PO2 Communication Skills: Ability to express thoughts and ideas effectively in writing and orally; Communicate with others using appropriate media; confidently share one's views and express herself/himself; demonstrate the ability to listen carefully, read and write analytically, and present complex information clearly and concisely to different groups.
- PO3 Critical thinking: Capability to apply analytic thought to a body of knowledge; analyse and evaluate evidence, arguments, claims, and beliefs based on empirical evidence; identify relevant assumptions or implications; formulate coherent arguments; critically evaluate practices, policies and theories by following a scientific approach to knowledge development.
- PO4 Problem-solving: Capacity to extrapolate from what one has learned and apply competencies to solve different kinds of non-familiar problems, rather than replicate curriculum content knowledge; and apply one's learning to real-life situations.
- PO5 Analytical reasoning: Ability to evaluate the reliability and relevance of evidence; identify logical flaws and holes in the arguments of others; analyze and synthesize data from a variety of sources; draw valid conclusions and support them with evidence and examples; and address opposing viewpoints.
- PO6 Research-related skills: A sense of inquiry and capability for asking relevant/appropriate questions, problem arising, synthesising and articulating; Ability to recognise cause-and-effect relationships, define problems, formulate hypotheses, test hypotheses, analyse, interpret and draw conclusions from data, establish hypotheses, predict cause-and-effect relationships; ability to plan, execute and report the results of an experiment or investigation.
- **PO7** Cooperation/Teamwork: Ability to work effectively and respectfully with diverse teams; facilitate cooperative or coordinated effort on the part of a group, and act together as a group or a team in the interests of a common cause and work efficiently as a member of a team.
- **PO8** Scientific reasoning: Ability to analyse, interpret and draw conclusions from quantitative/qualitative data; and critically evaluate ideas, evidence and experiences from an open-minded and reasoned perspective.
- **PO9** Reflective thinking: Critical sensibility to lived experiences, with self-awareness and reflexivity of both self and society.
- **PO10** Information/digital literacy: Capability to use ICT in a variety of learning situations; demonstrate the ability to access, evaluate, and use a variety of relevant information sources; and use appropriate software for analysis of data.

- **PO11** Self-directed learning: Ability to work independently, identify appropriate resources required for a project, and manage a project through to completion.
- **PO12** Multicultural competence: Knowledge of the values and beliefs of multiple cultures and a global perspective; and capability to effectively engage in a multicultural society and interact respectfully with diverse groups.
- PO13 Moral and ethical awareness/reasoning: Ability to embrace moral/ethical values in conducting one's life, formulate a position/argument about an ethical issue from multiple perspectives, and use ethical practices in all work. Capable of demonstrating the ability to identify ethical issues related to one's work; avoid unethical behaviour such as fabrication, falsification or misrepresentation of data or committing plagiarism, not adhering to intellectual property rights; appreciating environmental and sustainability issues; and adopting objective, unbiased and truthful actions in all aspects of work.
- **PO14** Leadership readiness/qualities: Capability for mapping out the tasks of a team or an organization, setting direction, formulating an inspiring vision, building a team that can help achieve the vision, motivating and inspiring team members to engage with that vision, and using management skills to guide people to the right destination, smoothly and efficiently.
- PO15 Lifelong learning: Ability to acquire knowledge and skills, including "learning how to learn", that is necessary for participating in learning activities throughout life through self-paced and self-directed learning aimed at personal development, meeting economic, social and cultural objectives, and adapting to changing trades and demands of the workplace through knowledge/skill development/reskilling.

B.Sc. MATHEMATICS DEGREE PROGRAMME
By the end of the program, the students will be able to

PSO1	Develop the mathematical ability to think abstractly.
PSO2	Solve skilled problems.
PSO3	Create talents for various types of employment.
PSO4	Equip themselves to appear in competitive examinations.
PSO5	Learn independently and improve self-performance.
PSO6	Develop in-depth knowledge of mathematics, appreciating the connection
	between theory and its applications.
PSO7	Identify the application of mathematics in other disciplines and society.
PSO8	Demonstrate mathematical modelling ability.

MAPPING OF PROGRAMME-SPECIFIC OUTCOMES WITH PROGRAMME OUTCOMES

Programme Specific	Programme Outcomes (POs)										
Outcomes (PSOs)	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	

PSO1	✓	✓	✓	✓			✓	✓		✓
PSO2	✓	✓	✓	✓			✓	✓	1	
PSO3	✓		✓	✓	✓		✓	✓		
PSO4	✓	✓		✓	✓			✓	✓	
PSO5	✓		✓	✓		✓	✓	✓	✓	
PSO6		✓	✓	✓	✓		✓	✓	✓	
PSO7		✓	✓	✓				✓	✓	✓
PSO8		✓	✓			✓	✓	✓	✓	✓

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Mapping Correlation Benchmark

Mapping	1-29%	30-59%	60-69%	70-100%
Matches	1-24	25-50	51-56	57-80
Correlation	Poor	Moderate	High	Very High

COURSE STRUCTURE FOR B.Sc. MATHEMATICS (For Students admitted from the academic year 2023-2024)

Part	Category	Course Code	Course Title SEMESTER I		Credit	Exam. Hrs.	CIA	ESE	TOTAL
			SEMESTER I						
	Consulta Elevativa	UCTATL11	Tamil I						
ı	Generic Elective Languages	UCURTL11	Urdu I	6	3	3	25	75	100
•	(To choose 1 out of 4)	UCARTL11	Arabic I		3	3	25	/5	100
	•	UCHDTL11	Hindi I						
II	English	UCENTL11	English I	4	3	3	25	75	100
	Core Course 1	UCMSTC11	Algebra &Trigonometry	5	4	3	25	75	100
Ш	Core Course 2	UCMSTC12	Differential Calculus	5	4	3	25	75	100
	Elective 1	UCMSTA11	Allied: Numerical Methods with Applications	4	3	3	25	75	100
	Skill Enhancement Course SEC 1 [NME - Allied Dept.]	UCMSPS11	Numerical Methods with Applications Lab	2	2	3	25	75	100
IV	Foundation Course	UCMSTF11	Bridge Mathematics	2	2	2	25	75	100
IV	Ability Enhancement Compulsory Course AEC 1	UCSSTM11	Soft Skill I	2	2	3	25	75	100
			TOTAL	30	23	-	200	600	800
			SEMESTER II		ı				
		UCTATL21	Tamil II						
	Generic Elective Languages	UCURTL21	Urdu II						
I	(To choose 1 out of	UCARTL21	Arabic II	6	3	3	25	75	100
	4)	UCHDTL21	Hindi II						
II	English	UCENTL21	English II	4	3	3	25	75	100
	Core Course 3	UCMSTC21	Analytical Geometry (Two & Three Dimensions)	5	4	3	25	75	100
Ш	Core Course 4	UCMSTC22	Integral Calculus	5	4	3	25	75	100
	Elective 2	UCMSTA21	Allied: Calculus of Finite Differences	4	3	3	25	75	100
	Skill Enhancement Course SEC 2	UCMSPS21	Problem-Solving Techniques Lab	2	2	3	25	75	100
IV	Skill Enhancement Course SEC 3	UCMSPS22	Computational Mathematics Lab	2	2	2	25	75	100
ıv	Ability Enhancement Compulsory Course AEC 2	UCSSTM21	Soft Skill II	2	2	3	25	75	100
			TOTAL	30	23	-	200	600	800

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	SEMESTER III											
	Generic Elective	UCTATL31	Tamil III	6	2	2	25	75	100			
•	Languages	UCURTL31	Urdu III	0	3	3	25	/3	100			

	(To choose 1 out	UCARTL31	Arabic III						
	of 4)	UCHDTL31	Hindi III	<u> </u>	<u> </u>	<u> </u>	25	7.	400
II	English	UCENTL31	English III	4	3	3	25	75	100
	Core Course 5	UCMSTC31	Vector Calculus and Applications	5	4	3	25	75	100
III	Core Course 6	UCMSTC32	Differential Equations and Applications	5	4	3	25	75	100
	Elective 3	UCMSTA31	Allied: Mathematical Statistics	4	4	3	25	75	100
	Skill Enhancement Course SEC 4	UCMSPS31	MS Office - Lab	1	1	3	25	75	100
IV	Skill Enhancement Course SEC 5	UCMSPS32	Statistics with R Programming - Lab	2	1	3	25	75	100
	EVS	-	Environmental Studies	1	-	-	-	-	-
	Ability Enhancement Compulsory Course AEC 3	UCSSTM31	Soft Skill III	2	2	3	25	75	100
			TOTAL	30	22	-	200	600	800
			SEMESTER IV						
	Generic Elective	UCTATL41	Tamil IV						
	Languages (To choose 1 out of 4)	UCURTL41	Urdu IV	_			25	75	100
ı		UCARTL41	Arabic IV	6	3	3	25		100
		UCHDTL41	Hindi IV						
II	English	UCENTL41	English IV	4	3	3	25	75	100
	Core Course 7	UCMSTC41	Industry Module – Industrial Statistics	5	4	3	25	75	100
III	Core Course 8	UCMSTC42	Elements of Mathematical Analysis	5	4	3	25	75	100
	Elective 4	UCMSTA41	Allied: Transformation Techniques	3	3	3	25	75	100
	Skill Enhancement Course SEC 6	UCMSTS41	Introduction to Data Science	2	2	3	25	75	100
IV	Skill Enhancement Course SEC 7	UCMSTS42	Mathematical Computation	2	2	2	25	75	100
	EVS [Online Exam]	UCESOM41	Environmental Studies	1	2	2	25	75	100
	Ability Enhancement Compulsory Course AEC 4	UCSSTM41	Soft Skill IV	2	2	3	25	75	100
			TOTAL	30	25	_	225	675	900

	SEMESTER V										
-	III	Core	UCMSTC51	Abstract Algebra	5	4	3	25	75	100	

	Course 9									
	Core Course 10	UCMSTC52	Real Analysis		5	4	3	25	75	100
	Core Course 11	UCMSTC53	Mathematical Modelli	ng	4	4	3	25	75	100
	Core Course 12	UCMSJC51	Project with Viva Voce	2	5	4	3	25	75	100
	Discipline Specific Elective 1	UCMSTE51	Optimization Techniqu	ıes	4	3	3	25	75	100
	Discipline Specific Elective 2	UCMSPE51	Introduction to Machi Learning – Theory & Practical	3	3	3	25	75	100	
	VED [Online Exam]	UCVEOM51	Value Education		2	2	2	25	75	100
IV	Summer Internship/Indust rial Training	UCMSIM51	Internship/Industrial Training		2	2	3	25	75	100
			TOTAL		30	26	-	200	600	800
	Core Course 13	UCMSTC61	Linear Algebra		6	5	3	25	75	100
	Core Course 14	UCMSTC62	Complex Analysis	Complex Analysis			3	25	75	100
Ш	Core Course 15	UCMSTC63	Mechanics		6	3	3	25	75	100
	Discipline Specific Elective 3	UCMSPE61	Programming Languag	ge C++	5	3	3	25	75	100
	Discipline Specific Elective 4	UCMSTE62	Graph Theory and Applications		5	2	3	25	75	100
IV	Professional Competency [Online Exam]	UCMSOP61	Mathematics for Competitive Examinat	Mathematics for Competitive Examinations		2	3	25	75	100
٧	Extension Activity	UCEXAM61	Extension Activity		-	1	-	25	75	100
	SWAYAM / NAAN I eligible for obtainin		Online Spoken Tutorial by I e]	IT Bomb	ay – MO	OC [Mar	datory	Online	Cours	e to be
			TOTAL	30	21	-	175	525	i	700
			Grand Total	180	140	-				4800

PROGRAMME SPECIFIC OUTCOMES FOR B.Sc. PHYSICS On the completion of this program, the student will be able to

- PSO1: Explains fundamental principles and concepts in various branches of physics.
- PSO2: Use the concepts of physics to analyze and solve physical problems.
- PSO3: Coordinate the physics knowledge through observation.
- PSO4: Realize, develop an understanding of the impact of physics concepts and carry out Independently in a real-life situation.
- PSO5: Students will develop proficiency in the acquisition of data using a variety of laboratory Instruments and analyze and interpret using relevant software and computers.
- PSO6: By performing experiments in the laboratories and interpreting findings to draw logical Conclusions.
- PSO7: Discover new ideas in physics, synthesize critically and communicate in scientific forums.
- PSO8: Able to appear for competitive examinations with confidence and pursue continuously Learning through MOOC, ODL and various learning platforms.

MAPPING OF PROGRAMME-SPECIFIC OUTCOMES WITH PROGRAMME OUTCOMES

(PSOs)				Progra	amme Ou	tcomes (Po	Os)			
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
PSO1	✓	✓	✓	-	✓	✓	✓	✓	-	✓
PSO2	✓	-	✓	-	✓	✓	✓	✓	✓	✓
PSO3	✓	✓	✓	✓	✓	✓	-	-	✓	-
PSO4	✓	✓	-	✓	✓	✓	✓	✓	✓	✓
PSO5	✓	✓	✓	✓	✓	-	✓	✓	✓	✓
PSO6	✓	✓	✓	✓	✓	✓	-	-	✓	-
PSO7	✓	✓	-	✓	✓	✓	✓	✓	✓	✓
PSO8	-	-	✓	✓	-	✓	-	✓	-	✓
		N	umber of N	Matches =	62 , Corre	lation: Ve	ry High	1	1	

MAPPING CORRELATION BENCHMARK

Mapping	Mapping 1-29%		60-69%	70-100%
Matches	Matches 1-24 25-50		51-56	57-80
Correlation	Correlation Poor		High	Very High

COURSE STRUCTURE FOR B.Sc. PHYSICS

	(For	r Students a	dmitted from the acad	emic	year 20	23-202	24)		
Part	Category	Course Code	Course Title	Hrs./ Week	Credit	Exam. Hrs.	CIA	ESE	TOTAL
			SEMESTER I						
	Generic Elective	UCTATL11	Tamil I						
ı	Languages	UCURTL11	Urdu I	6	3	3	25	75	100
'	(To choose 1 out of 4)	UCARTL11	Arabic I	0	3	3	25	/5	100
	,	UCHDTL11	Hindi I						
II	English	UCENTL11	English I	4	3	3	25	75	100
Ш	Core Course 1	UCPYTC11	Properties of Matter and Acoustics	6	4	3	25	75	100
	Core Course 2	UCPYPC12	Physics Practical I	3	3	3	25	75	100
	Elective 1	UCPYTA11	Allied Chemistry I	4	4	3	25	75	100
	Skill Enhancement Course SEC1	UCPYPS11	Allied Chemistry Practical I	3	2	3	25	75	100
IV	Foundation Course	UCPYTF11	Physics for Everyday Life	2	2	2	25	75	100
IV	Ability Enhancement Compulsory Course AEC1	UCSSTM11	Soft Skill I	2	2	3	25	75	100
			TOTAL	30	23	-	200	600	800
			SEMESTER II						
	Generic Elective	UCTATL21	Tamil II						
ı	Languages (To choose 1 out of 4)	UCURTL21	Urdu II	6	3	3	25	75	100
'		UCARTL21	Arabic II		3		23		100
	,	UCHDTL21	Hindi II						
II	English	UCENTL21	English II	4	3	3	25	75	100
	Core Course 3	UCPYTC21	Heat, Thermodynamics and Statistical Physics	6	5	3	25	75	100
III	Core Course 4	UCPYPC22	Physics Practical II	3	3	3	25	75	100
	Elective 2	UCPYTA21	Allied Chemistry II	4	3	3	25	75	100
	Skill Enhancement Course SEC2	UCPYPS21	Allied Chemistry Practical II	3	2	3	25	75	100
	Skill Enhancement Course SEC3	UCPYTS22	Physics of Medical Instruments	2	2	2	25	75	100
IV	Ability Enhancement Compulsory Course AEC2	UCSSTM21	Soft Skill II	2	2	3	25	75	100
			TOTAL	30	23	-	200	600	800
			SEMESTER III						
	Generic Elective	UCTATL31	Tamil III						
	Languages	UCURTL31	Urdu III		2		25	75	100
ı	(To choose 1 out	UCARTL31	Arabic III	6	3	3	25	75	100
	of 4)	UCHDTL31	Hindi III						
II	English	UCENTL31	English III	4 5	3	3	25	75	100

	Course 5								
	Core Course 6	UCPYPC31	Physics Practical III	3	3	3	25	75	100
	Elective 3	UCPYTA31	Allied Mathematics I	5	4	3	25	75	100
	Skill Enhancement Course SEC4	UCPYPS31	Allied Mathematics Lab I	3	1	3	25	75	100
	Skill Enhancement Course SEC5 [Online Exam]	UCPYOS32	Energy Physics	1	1	2	25	75	100
IV	Ability Enhancement Compulsory Course AEC3	UCSSTM31	Soft Skill III	2	2	3	25	75	100
	EVS [Handled by Allied Dept.]	-	Environmental Studies	1	-	-	-	-	-
			TOTAL	30	22	-	200	600	800

			SEMESTER IV						
		UCTATL41	Tamil IV						
	Generic Elective Languages	UCURTL41	Urdu IV						
ı	(To choose 1 out	UCARTL41	Arabic IV	6	3	3	25	75	100
	of 4)	UCHDTL41	Hindi IV						
II	English	UCENTL41	English I	4	3	3	25	75	100
	Core Course 7	UCPYTC41	Optics and Laser Physics	5	4	3	25	75	100
Ш	Core Course 8	UCPYPC42	Physics Practical IV	3	3	3	25	75	100
	Elective 4	UCPYTA41	Allied Mathematics II	4	4	3	25	75	100
	Skill Enhancement Course SEC6	UCPYPS41	Allied Mathematics Lab II	3	2	3	25	75	100
	Skill Enhancement Course SEC7	UCPYTS42	Home Electrical Installation	2	2	3	25	75	100
IV	Ability Enhancement Compulsory Course AEC4	UCSSTM41	Soft Skill IV	2	2	3	25	75	100
	EVS [Handled By Allied Dept.] [Online Exam]	UCESOM41	Environmental Studies	1	2	2	25	75	100
			TOTAL	30	25	-	225	675	900
			SEMESTER V						
	Core Course 9	UCPYTC51	Electricity, Magnetism and Electromagnetism	5	4	3	25	75	100
	Core Course 10	UCPYTC52	Atomic and Nuclear Physics	5	4	3	25	75	100
ш	Core Course 11	UCPYJC51	Project with Viva - Voce	5	4	3	25	75	100
	Core Course 12	UCPYPC53	General Physics Practical V	3	4	3	25	75	100
	Discipline Specific	UCPYPE51	Electronics Practical I	3	3	3	25	75	100
	Elective 1	UCPYTE51	Applied Electronics	5	3	3	25	75	100

	VED [Online Exam]	UCVEOM51	Value Education	2	2	2	25	75	100
IV	Summer Internship/ Industrial Training (30 Hours)	UCPYIM51	Internship/Industrial Training	2	2	3	25	75	100
			TOTAL	30	26	-	200	600	800
			SEMESTER VI						
	Core Course 13	UCPYTC61	Quantum Mechanics	6	4	3	25	75	100
	Core Course 14	UCPYTC62	Solid State Physics	6	4	3	25	75	100
	Core Course 15	UCPYPC63	Physics Practical VI	5	3	3	25	75	100
III	Discipline Specific	UCPYPE61	Electronics Practical II	5	3	3	25	75	100
	Elective 2	UCPYTE61	Digital Electronics and Microprocessor 8085	6	4	3	25	75	100
IV	Professional Competency [Online Exam]	UCPYOP61	Physics for Competitive Examinations	2	2	3	25	75	100
v	Extension Activity	UCEXAM61	Extension Activity	-	1	-	25	75	100
	SWAYAM / NAAN I eligible for obtainin	•	lline Spoken Tutorial by IIT E]	Sombay	- MOO([Mand	latory On	line Cou	rse to be
			TOTAL	30	21	-	200	600	700
			Grand Total	180	140	-	1200	3600	4800

PROGRAMME SPECIFIC OUTCOMES FOR B.Sc. CHEMISTRY

On successful completion of the Bachelor of Physics with Computer Applications programme, the student should be able to:

PSO1: Disciplinary Knowledge:

Understand the fundamental principles, concepts, and physics and computer science theories—also exhibit proficiency in performing experiments in the laboratory.

PSO2: Critical Thinking:

Analyse complex problems, evaluate information, synthesize information, apply theoretical concepts to practical situations, identify assumptions and biases, make informed decisions and communicate effectively

PSO3: Problem Solving:

Employ theoretical concepts and critical reasoning ability with physical, mathematical and technical skills to solve problems, acquire data, analyze their physical significance and explore new design possibilities.

PSO4: Analytical & Scientific Reasoning:

Apply scientific methods, collect and analyse data, test hypotheses, evaluate evidence, apply statistical techniques and use computational models.

PSO5: Research-related skills:

Formulate research questions, conduct literature reviews, design and execute research studies, communicate research findings and collaborate in research projects.

PSO6: Self-directed & Lifelong Learning:

Set learning goals, manage their learning, reflect on their learning, adapt to new contexts, seek out new knowledge, collaborate with others to continuously improve their skills and knowledge through ongoing learning and professional development, and contribute to the growth and development of their field.

PROGRAMME-SPECIFIC OUTCOMES (PSO) ON COMPLETION OF THE B.SC CHEMISTRY PROGRAMME, THE STUDENTS WILL BE ABLE TO:

PSO1	Utilize his knowledge and interest after studying chemistry as a discipline by summarizing
	the basic facts and concepts learnt from theory and practical work.
PSO2	Apply principles, theories and techniques of the core subjects to another discipline.
PSO3	Apply the recent developments in chemistry to the welfare of nature and society.
PSO4	Get job opportunities as a chemist by his understanding of industrial process development
P304	and its applications.
PSO5	Pursue his higher education in various interdisciplinary subjects connected with
P3U3	technology and research.
PSO6	Handle chemicals, apparatus and instruments with proper analytical tools.
PSO7	Solve the problems arising out of industrial production and environmental pollution.
PSO8	Explore the knowledge of reactions, processes and their applications as an entrepreneur.

MAPPING OF PROGRAMME-SPECIFIC OUTCOMES WITH PROGRAMME OUTCOMES

Program-				Р	rogram Ou	itcomes (P	Os)			
Specific	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10

Outcomes (PSOs)										
PSO1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
PSO2	✓	✓	√	✓	✓	✓	✓	✓	✓	✓
PSO3	✓	✓	√	✓	✓	✓	✓	✓		✓
PSO4	✓	✓	√	✓	✓	✓	✓	✓		
PSO5	✓	✓	√	✓	✓	✓	✓	✓	✓	✓
PSO6	✓	✓	√	✓	✓	✓	✓	✓		
PSO7	✓	✓	√	✓	✓	✓	✓	✓		✓
PSO8	✓	✓	√	✓	✓	✓	✓	✓		✓
	•	N	umber of ı	matches =	73, Corre	lation: Ver	y High			

MAPPING CORRELATION BENCHMARK

Mapping	1-30%	31-60%	61-70%	71-100%
Matches	1-24	25-50	51-56	57-80
Correlation	Poor	Moderate	High	Very High

	(Fo		STRUCTURE FOR B.Sc. (mitted from the acader	_	_	3-2024	1)		
Part	Category	Course Code	Course Title	Hrs./ Week	Credit	Exam. Hrs.	CIA	ESE	TOTAL
			SEMESTER I						
		UCTATL11	Tamil I						
	Generic Elective Languages	UCURTL11	Urdu I	6	3	3	25	75	100
•	(To choose 1 out of 4)	UCARTL11	Arabic I	0	3	3	25	/5	100
	-7	UCHDTL11	Hindi I						
II	English	UCENTL11	English I	4	3	3	25	75	100
	Core Course 1	UCCHTC11	General Chemistry I	6	4	3	25	75	100
ш	Core Course 2	UCCHPC12	Practical I - Quantitative Inorganic Estimation (Titrimetry) and Inorganic Preparations	3	3	3	25	75	100
	Elective 1	UCCHTA11	Allied Physics I	4	4	3	25	75	100
	Skill Enhancement Course SEC1	UCCHPS11	Allied Physics Practical I	3	2	3	25	75	100
	Foundation Course	UCCHTF11	Role of Chemistry in daily life	2	2	2	25	75	100
IV	Ability Enhancement Compulsory Course AEC1	UCSSTM11	Soft Skill I	2	2	3	25	75	100
			TOTAL	30	23	-	200	600	800
			SEMESTER II						
	Generic Elective	UCTATL21	Tamil II	6	3	3	25	75	100
I	Languages (To choose 1 out of	UCURTL21	Urdu II	ס	3	5	25	/5	100

	4)	UCARTL21	Arabic II						
		UCHDTL21	Hindi II						
II	English	UCENTL21	English II	4	3	3	25	75	100
	Core Course 3	UCCHTC21	General Chemistry II	6	5	3	25	75	100
III	Core Course 4	UCCHPC22	Practical II – Qualitative Organic Analysis and Preparation of Organic Compound	3	3	3	25	75	100
	Elective 2	UCCHTA21	Allied Physics II	4	3	3	25	75	100
	Skill Enhancement Course SEC2	UCCHPS21	Allied Physics Practical II	3	2	3	25	75	100
IV	Skill Enhancement Course SEC3 [Allied Dept.]	UCCHTS22	Diary Chemistry	2	2	2	25	75	100
IV	Ability Enhancement Compulsory Course AEC2	UCSSTM21	Soft Skill II	2	2	3	25	75	100
			TOTAL	30	23	-	200	600	800
			SEMESTER III						
	Canadia Elastica	UCTATL31	Tamil III						
ı	Generic Elective Languages	UCURTL31	Urdu III	6	3	3	25	75	100
'	(To choose 1 out of 4)	UCARTL31	Arabic III		3	3	23	/3	100
	4)	UCHDTL31	Hindi III						
II	English	UCENTL31	English III	4	3	3	25	75	100
	Core Course 5	UCCHTC31	General Chemistry III	5	5	3	25	75	100
Ш	Core Course 6	UCCHPC32	Practical III – Qualitative Inorganic Analysis	3	3	3	25	75	100
	Elective 3	UCCHTA31/ UCCHTA32	Allied Mathematics I/Allied Zoology I	5	4	3	25	75	100
	Skill Enhancement Course SEC4	UCCHPS31/ UCCHPS32	Allied Mathematics Practical I /Allied Zoology Practical I	3	1	3	25	75	100
IV	Skill Enhancement Course SEC5 [Allied Dept.] [Online Exam]	UCCHOS31/ UCCHOS32	To be handled by Mathematics dept. /Pesticide Chemistry (handled by Biotech. dept.)	1	1	2	25	75	100
	EVS [Major Dept.]	-	Environmental Studies	1	-	-	-	-	-
	Ability Enhancement Compulsory Course AEC3	UCSSTM31	Soft Skill III	2	2	3	25	75	100
			TOTAL	30	22	-	200	600	800

Generic Elective UCTATL41 Tam	IV 6	3	3 25	75	100
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		UCURTL41	Urdu IV						
		UCARTL41	Arabic IV						
		UCHDTL41	Hindi IV						
II	English	UCENTL41	English I	4	3	3	25	75	100
	Core Course 7	UCCHTC41	General Chemistry IV	5	4	3	25	75	100
Ш	Core Course 8	UCCHPC42	Practical: Physical Chemistry I	3	3	3	25	75	100
	Elective 4	UCCHTA41/ UCCHTA42	Allied Mathematics II/Allied Zoology II	4	4	3	25	75	100
	Skill Enhancement Course SEC6	UCCHPS41/ UCCHPS42	Allied Mathematics Practical II/Allied Zoology Practical II	3	2	3	25	75	100
	Skill Enhancement Course SEC7 [Allied Dept.]	UCCHTS41/ UCCHTS42	To be handled by Mathematics dept. / Forensic Science (handled by Biotech. dept.)	2	2	2	25	75	100
IV	EVS [Major Dept.] [Online Exam] Ability	UCESOM41	Environmental Studies	1	2	2	25	75	100
	Enhancement Compulsory Course AEC4	UCSSTM41	Soft Skill IV	2	2	3	25	75	100
			TOTAL	30	25	-	225	675	900
			SEMESTER V				l.		
	Core Course 9	UCCHTC51	Organic Chemistry I	5	4	3	25	75	100
	Core Course 10	UCCHTC52	Inorganic Chemistry I	5	4	3	25	75	100
	Core Course 11	UCCHTC53	Physical Chemistry I	4	4	3	25	75	100
Ш	Core Course 12	UCCHJC51	Project with Viva- Voce	5	4	3	25	75	100
	Discipline Specific Elective 1	UCCHTE51/ UCCHTE52	Industrial Chemistry/ Leather Chemistry Entrepreneurial Skills	4	3	3	25	75	100
	Discipline Specific Elective 2	UCCHTE53/ UCCHTE54	Pharmaceutical Chemistry/ Biochemistry	3	3	3	25	75	100
	VED [Online Course]	UCVEOM51	Value Education	2	2	2	25	75	100
IV	Summer Internship/Indust rial Training (30 Hours)	UCCHIM51	Internship/Industrial Training	2	2	3	25	75	100
			TOTAL	30	26	-	200	600	800
			SEMESTER VI						
	Core Course 13	UCCHTC61	Organic Chemistry II	6	4	3	25	75	100
	Core Course 14	UCCHTC62	Inorganic Chemistry II	6	4	3	25	75	100
III	Core Course 15	UCCHPC63	Practical: Gravimetric Analysis	5	3	3	25	75	100
	Discipline-Specific Elective 3	UCCHTE61 / UCCHTE62	Physical Chemistry II / Nanoscience	6	4	3	25	75	100
	Discipline-Specific Elective 4	UCCHTE63 / UCCHTE64	Fundamentals of Spectroscopy/ Polymer Science	5	3	3	25	75	100

IV	Professional Competency [Online Exam]	UCCHOP61	General Awareness for Competitive Examinations	2	2	2	25	75	100
٧	Extension Activity	UCEXAM61	Extension Activity	-	1	-	25	75	100
			ine Spoken Tutorial by II	Γ Bombay	y – MOO	C [Mar	ndatory C	Inline Co	urse to
	be eligible for obtai	ning the UG degr	eej						
	be eligible for obtain	ining the UG degr	TOTAL	30	21	-	175	525	700

PROGRAMME OUTCOMES FOR B.Sc. BIOCHEMISTRY & BIOTECHNOLOGY PROGRAMME OUTCOMES:

PO1: Disciplinary knowledge: Capable of demonstrating comprehensive knowledge and understanding of one or more disciplines that form a part of an undergraduate Programme of study PO2: Communication Skills: Ability to express thoughts and ideas effectively in writing and orally; Communicate with others using appropriate media; confidently share one's views and express oneself; demonstrate the ability to listen carefully, read and write analytically, and present complex information clearly and concisely to different groups.

PO3: Critical thinking: Capability to apply analytic thought to a body of knowledge; analyse and evaluate evidence, arguments, claims, and beliefs based on empirical evidence; identify relevant assumptions or implications; formulate coherent arguments; critically evaluate practices, policies and theories by following a scientific approach to knowledge development.

PO4: Problem-solving: Capacity to extrapolate from what one has learned and apply competencies to solve different non-familiar problems rather than replicate curriculum content knowledge and apply one's learning to real-life situations.

PO5: Analytical reasoning: Ability to evaluate the reliability and relevance of evidence; identify logical flaws and holes in the arguments of others; analyze and synthesize data from various sources; draw valid conclusions and support them with evidence and examples; and address opposing viewpoints.

PO6: Research-related skills: A sense of inquiry and capability for asking relevant/appropriate questions, problem arising, synthesising and articulating; Ability to recognise cause-and-effect relationships, define problems, formulate hypotheses, test hypotheses, analyse, interpret and draw conclusions from data, establish hypotheses, predict cause-and-effect relationships; ability to plan, execute and report the results of an experiment or investigation

PO7: Cooperation/Teamwork: Ability to work effectively and respectfully with diverse teams; facilitate cooperative or coordinated effort on the part of a group and act together as a group or a team in the interests of a common cause and work efficiently as a member of a team

PO8: Scientific reasoning: Ability to analyse, interpret and draw conclusions from quantitative/qualitative data and critically evaluate ideas, evidence and experiences from an open-minded and reasoned perspective.

PO9: Reflective thinking: Critical sensibility to lived experiences, self-awareness, and reflexivity of self and society.

PO10 Information/digital literacy: Capability to use ICT in a variety of learning situations;

demonstrate ability to access, evaluate, and use a variety of relevant information sources; and use appropriate software for analysis of data.

PROGRAMME SPECIFIC OUT COMESFOR B.Sc. BIOCHEMISTRY

PROGRAMME-SPECIFIC OUTCOMES FOR B.SC. BIOCHEMISTRY ON THE COMPLETION OF THIS PROGRAM, THE STUDENT WILL BE ABLE TO

PSO1-Comprehend the knowledge in the biochemical, analytical, biostatistical and computational areas.

PSO2- Understand the fundamental biochemical principles, such as the structure-function relationship of Biomolecules/metabolic pathways with their clinical correlation.

PSO3- Demonstrate an understanding of the principle and have practical experience with the analytical techniques in life science.

PSO4- Analyse biochemical data (e.g., enzyme kinetics, molecular structure analysis and biological databases) and use software and ICT tools.

PSO5- Explain the biochemical process that underlines the relationship between phenotype and genotype, the structural organization of genetic material, their experience and control.

PSO6- Acquire lifelong self-learning habits through online courses and the ability to plan and manage projects to achieve objectives.

PSO7- Develop ethical and moral values in the profession, environmental and social responsibilities, and multi-level commitment to health and well-being.

PSO8- Appreciate and execute their professional roles in society as biochemistry professionals, employers and employees in various industries, researchers and educators.

MAPPING OF PROGRAMME-SPECIFIC OUTCOMES WITH PROGRAMME OUTCOMES FOR B.Sc. BIOCHEMISTRY

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
PSO1	✓	✓	✓	✓	✓	✓		✓		✓
PSO2	✓	✓				✓		✓		
PSO3	✓	✓	✓	✓	✓	✓		✓		
PSO4	✓	✓	✓	✓	✓	✓		✓		✓
PSO5	✓	✓	✓	✓		✓		✓		
PSO6		✓	✓	✓		✓		✓	✓	✓
PSO7			✓			✓	✓	✓	✓	
PSO8				✓	✓	✓	✓	✓	✓	

Mapping	61 – 70%
Matches	51
Correlation	High

Mapping Correlation Benchmark

Mapping	1-30%	31-60%	61-70%	71-100%
Matches	1-24	25-50	51-56	57-80
Correlation	Poor	Moderate	High	Very High

COURSE STRUCTURE FOR B.Sc. BIOCHEMISTRY (For Students admitted from the academic year 2023-2024)

Part	Category	Course Code	Course Title	Hrs./ Week	Credit	Exam. Hrs.	CIA	ESE	ТОТАГ
			SEMESTRE I						
	Generic Elective	UCTATL11	Tamil I						
ı	Languages (To choose 1 out	UCURTL11	Urdu I	6	3	3	25	75	100
	of 4)	UCARTL11 UCHDTL11	Arabic I Hindi I						
II	English	UCENTL11	English I	4	3	3	25	75	100
	Core Course 1	UCBITC11	Nutrition Biochemistry	6	4	3	25	75	100
Ш	Core Course 2	UCBIPC12	Nutrition Biochemistry Practical	3	3	3	25	75	100
	Elective 1	UCBITA11	Allied Chemistry I	4	4	3	25	75	100
	Skill Enhancement		Allied Chemistry		_				
	Course SEC1	UCBIPS11	Practical I	3	2	3	25	75	100
	Foundation Course	UCBITF11	Basics in Biochemistry	2	2	2	25	75	100
IV	Ability Enhancement Compulsory Course AEC1	UCSSTM11	Soft Skill I	2	2	3	25	75	100
			TOTAL	30	23	-	200	600	800
			SEMESTER II						
	Generic Elective	UCTATL21 UCURTL21	Tamil II Urdu II						
ı	Languages (To choose 1 out	UCARTL21	Arabic II	6	3	3	25	75	100
	of 4)	UCHDTL21	Hindi II						
п	English	UCENTL21	English II	4	3	3	25	75	100
	Core Course 3	UCBITC21	Cell Biology	6	5	3	25	75	100
Ш	Core Course 4	UCBIPC22	Cell Biology Practical	3	3	3	25	75	100
	Elective 2	UCBITA21	Allied Chemistry II	4	3	3	25	75	100
	Skill Enhancement Course SEC2	UCBIPS21	Allied Chemistry Practical II	3	2	3	25	75	100
IV	Skill Enhancement Course SEC3 [Allied Dept.]	UCBITS22	Health and Nutrition	2	2	2	25	75	100
	Ability Enhancement Compulsory Course AEC2	UCSSTM21	Soft Skill II	2	2	3	25	75	100
			TOTAL	30	23	-	200	600	800
			SEMESTER III						
	Conorio Floativo	UCTATL31	Tamil III						
	Generic Elective Languages	UCURTL31	Urdu III	-	2	,	25	75	100
I	(To choose 1 out	UCARTL31	Arabic III	6	3	3	25	75	100
	of 4)	UCHDTL31	Hindi III						
II	English	UCENTL31	English III	4	3	3	25	75	100
	Core Course 5	UCBITC31	Biomolecules	5	4	3	25	75	100
Ш	Core Course 6	UCBIPC32	Biomolecules Practical	3	3	3	25	75	100
	Elective 3	UCBITA31	Allied Zoology I	5	4	3	25	75	100
IV	Skill Enhancement Course SEC4	UCBIPS31	Allied Zoology Practical I	3	1	3	25	75	100

		TOTAL	30	22	-	200	600	800
Ability Enhancement Compulsory Course AEC3	UCSSTM31	Soft Skill III	2	2	3	25	75	100
EVS [Major Dept.]	-	Environmental Studies	1	-	-	-	-	-
Skill Enhancement Course SEC5 [Allied Dept.] [Online Exam]	UCBIOS32	Tissue Culture	1	1	2	25	75	100

			SEMESTER IV						
ı	Generic Elective Languages (To choose 1 out of 4)	UCTATL41 UCURTL41 UCARTL41 UCHDTL41	Tamil IV Urdu IV Arabic IV Hindi IV	6	3	3	25	75	100
II	English	UCENTL41	English I	4	3	3	25	75	100
	Core Course 7	UCBITC41	Biochemical Techniques	5	4	3	25	75	100
Ш	Core Course 8	UCBIPC42	Biochemical Techniques Practical	3	3	3	25	75	100
	Elective 4	UCBITA41	Allied Zoology II	4	4	3	25	75	100
	Skill Enhancement Course SEC6	UCBIPS41	Allied Zoology Practical II	3	2	3	25	75	100
	Skill Enhancement Course SEC7 [Allied Dept.]	UCBITS42	Medical Coding	2	2	2	25	75	100
IV	EVS [Major Dept.] [Online Exam]	UCESOM41	Environmental Studies	1	2	2	25	75	100
	Ability Enhancement Compulsory Course AEC4	UCSSTM41	Soft Skill IV	2	2	3	25	75	100
			TOTAL	30	25	-	225	675	900
			SEMESTRE V						
	Core Course 9	UCBITC51	Enzymes	5	4	3	25	75	100
	Core Course 10	UCBITC52	Clinical Biochemistry	5	4	3	25	75	100
	Core Course 11	UCBIPC53	Clinical Biochemistry Practical	4	3	3	25	75	100
Ш	Core Course 12	UCBIJC51	Project with Viva-voce	5	4	3	25	75	100
	Discipline Specific Elective 1	UCBITE51/ UCBITE52/	Immunology/Biochemical Pharmacology	4	4	3	25	75	100
	Discipline Specific Elective 2	UCBITE53/ UCBITE54	Plant Biochemistry & Plant Therapeutic/Research Methodology	3	3	3	25	75	100
	VED [Online Exam]	UCVEOM51	Value Education	2	2	3	25	75	100
IV	Summer Internship/Industri al Training (30 Hours)	UCBIIM51	Internship/Industrial Training	2	2	3	25	75	100

			TOTAL	30	26	-	200	600	800
			SEMESTRE VI						
	Core Course 13	UCBITC61	Molecular Biology	6	4	3	25	75	100
	Core Course 14	UCBITC62	Human Physiology	6	4	3	25	75	100
Ш	Core Course 15	UCBITC63	Intermediary Metabolism	6	4	3	25	75	100
	Discipline Specific Elective 3	UCBITE61/ UCBITE62/	Biotechnology/ Bioinformatics	5	3	3	25	75	100
	Discipline Specific Elective 4	UCBITE63/ UCBITE64	Bioentrepreneurship/Basics of Forensic Science	5	3	3	25	75	100
IV	Professional Competency	UCBIOP61	General Awareness for Competitive Examinations	2	2	3	25	75	100
v	Extension Activity	UCEXAM61	Extension Activity	-	1	-	25	75	100
	SWAYAM / NAAN MUDHALVAN/Online Spoken Tutorial by IIT Bombay – MOOC [Mandatory Online Course to be eligible for obtaining the UG degree].								
			TOTAL	30	21	-	175	525	700
			Grand Total	180	140	-	1200	3600	4800

Programme Specific Outcomes FOR B.Sc. BIOTECHNOLOGY

Upon completion of the B.Sc. Biotechnology Programme, the students will be able to:

PSO1: Acquire sound and solid base in local as well as national languages and on the fundamental principles and the scientific theories related to various spheres of Biotechnology with technological applications.

PSO2: Apply biotechnology skills with global competencies in core and allied fields.

PSO3: Integrate technologies through inter-disciplinary concepts and suggest better solutions to solve issues of the underprivileged.

PSO4: Utilize ICT for learning and experimenting to pursue modern technology and concepts.

PSO5: Developing various communication skills, such as reading, listening, speaking, etc., helps to express ideas clearly and effectively.

PSO6: Conceive the concepts and research approaches to pursue higher studies/attain a higher career in industry, medicine and other relevant fields of biotechnology both locally and nationally and develop their scientific tempo.

PSO7: Become entrepreneurs and technologists with strong ethics and technical skills.

PSO8: Find the bio-solutions for cross-cutting issues in a global, economic, environmental, and societal context.

MAPPING OF PROGRAMME-SPECIFIC OUTCOMES WITH PROGRAMME OUTCOMES

Programme	Progra	amme O	utcom	es (PO)						
Specific										
Outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
(PSOs)										
PSO1	٧	٧	٧	٧			٧			
PSO2	٧	٧	٧		٧	٧	٧	٧		
PSO3	٧	٧	٧	٧	٧	٧		٧	٧	٧
PSO4	٧		٧		٧	٧			٧	
PSO5	٧	٧				٧			٧	
PSO6	٧	٧	٧	٧	٧	٧	٧	٧	٧	٧
PSO7		٧	٧	٧						٧
PSO8	٧	٧		٧	٧		٧	٧		٧
Number of m	atches	= 51, Co	rrelatio	n: High		•	•	•	•	•

MAPPING CORRELATION BENCHMARK

Mapping	1-25%	26-50%	51-75%	76-100%
Matches	1-20	21-40	41-60	61-80
Correlation	Poor	Moderate	High	Very High

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COURSE STRUCTURE FOR B.Sc. BIOTECHNOLOGY
(For Students admitted from the academic year 2023-2024)

Part	Category	Course Code	Course Title	Hrs./ Week	Credit	Exam. Hrs.	CIA	ESE	TOTAL
			SEMESTER I						
		UCTATL11	Tamil I						
	Generic Elective	UCURTL11	Urdu I	_					
1	Languages (To choose 1 out of 4)	UCARTL11	Arabic I	6	3	3	25	75	100
		UCHDTL11	Hindi I						
II	English	UCENTL11	English I	4	3	3	25	75	100
	Core Course 1	UCBTTC11	Cell and Molecular Development Biology	6	4	3	25	75	100
III	Core Course 2	UCBTPC12	Practical I: Cell and Molecular Development Biology -	3	3	3	25	75	100
	Elective 1	UCBTTA11	Allied –Biological Chemistry	4	4	3	25	75	100
	Skill Enhancement Course SEC1	UCBTPS11	Allied Practical I - Biological Chemistry	3	2	3	25	75	100
IV	Skill Enhancement Course I [Allied Dept.]	UCBTTF11	Basics of Biotechnology	2	2	2	25	75	100
IV	Ability Enhancement Compulsory Course [Eng. Dept.]	UCSSTM11	Soft Skill I	2	2	3	25	75	100
			TOTAL	30	23	1	200	600	800
			SEMESTER II	<u> </u>					
	Generic Elective	UCTATL21	Tamil II						
_	Languages	UCURTL21	Tamil II Urdu II	6	3	3	25	75	100
ı		UCURTL21 UCARTL21	Tamil II Urdu II Arabic II	6	3	3	25	75	100
ı	Languages (To choose 1 out of 4)	UCURTL21 UCARTL21 UCHDTL21	Tamil II Urdu II Arabic II Hindi II						
ı	Languages (To choose 1 out of 4) English	UCURTL21 UCARTL21 UCHDTL21 UCENTL21	Tamil II Urdu II Arabic II Hindi II English II	4	3	3	25	75	100
	Languages (To choose 1 out of 4)	UCURTL21 UCARTL21 UCHDTL21	Tamil II Urdu II Arabic II Hindi II						
II	Languages (To choose 1 out of 4) English	UCURTL21 UCARTL21 UCHDTL21 UCENTL21	Tamil II Urdu II Arabic II Hindi II English II Genetics Practical II: Genetics	4	3	3	25	75	100
	Languages (To choose 1 out of 4) English Core Course 3	UCURTL21 UCARTL21 UCHDTL21 UCENTL21 UCBTTC21	Tamil II Urdu II Arabic II Hindi II English II Genetics	4 6	3	3	25 25	75 75	100
II	Languages (To choose 1 out of 4) English Core Course 3 Core Course 4	UCURTL21 UCARTL21 UCHDTL21 UCENTL21 UCBTTC21 UCBTPC22	Tamil II Urdu II Arabic II Hindi II English II Genetics Practical II: Genetics Allied - Fundamental of	4 6 3	3 5 3	3 3 3	25 25 25	75 75 75	100 100 100
II	Languages (To choose 1 out of 4) English Core Course 3 Core Course 4 Elective 2 Skill Enhancement	UCURTL21 UCARTL21 UCHDTL21 UCENTL21 UCBTTC21 UCBTPC22 UCBTTA21	Tamil II Urdu II Arabic II Hindi II English II Genetics Practical II: Genetics Allied - Fundamental of Microbiology Allied Practical II - Fundamental of	4 6 3 4	3 5 3	3 3 3 3	25 25 25 25 25	75 75 75 75	100 100 100 100
II	Languages (To choose 1 out of 4) English Core Course 3 Core Course 4 Elective 2 Skill Enhancement Course SEC2 Skill Enhancement Course SEC3	UCURTL21 UCARTL21 UCHDTL21 UCENTL21 UCBTTC21 UCBTPC22 UCBTTA21 UCBTPS21	Tamil II Urdu II Arabic II Hindi II English II Genetics Practical II: Genetics Allied - Fundamental of Microbiology Allied Practical II - Fundamental of Microbiology	4 6 3 4 3	3 5 3 3	3 3 3 3	25 25 25 25 25 25	75 75 75 75 75	100 100 100 100
II	Languages (To choose 1 out of 4) English Core Course 3 Core Course 4 Elective 2 Skill Enhancement Course SEC2 Skill Enhancement Course SEC3 [Allied Dept.] Ability Enhancement Compulsory Course	UCURTL21 UCARTL21 UCHDTL21 UCENTL21 UCBTTC21 UCBTPC22 UCBTTA21 UCBTPS21 UCBTTS22	Tamil II Urdu II Arabic II Hindi II English II Genetics Practical II: Genetics Allied - Fundamental of Microbiology Allied Practical II - Fundamental of Microbiology Vermitechnology	4 6 3 4 3 2	3 5 3 3 2	3 3 3 3 2	25 25 25 25 25 25	75 75 75 75 75	100 100 100 100 100
II	Languages (To choose 1 out of 4) English Core Course 3 Core Course 4 Elective 2 Skill Enhancement Course SEC2 Skill Enhancement Course SEC3 [Allied Dept.] Ability Enhancement Compulsory Course	UCURTL21 UCARTL21 UCHDTL21 UCENTL21 UCBTTC21 UCBTPC22 UCBTTA21 UCBTPS21 UCBTTS22	Tamil II Urdu II Arabic II Hindi II English II Genetics Practical II: Genetics Allied - Fundamental of Microbiology Allied Practical II - Fundamental of Microbiology Vermitechnology Soft Skill II	4 6 3 4 3 2 2	3 5 3 2 2	3 3 3 3 3 2	25 25 25 25 25 25 25	75 75 75 75 75 75	100 100 100 100 100

1	Languages (To choose 1 out	UCURTL31	Urdu III						
	of 4)	UCARTL31	Arabic III						
		UCHDTL31	Hindi III						
II	English	UCENTL31	English III	4	3	3	25	75	100
	Core Course 5	UCBTTC31	Immunology and Immunotechnology	5	5	3	25	75	100
Ш	Core Course 6	UCBTPC32	Practical III - Immunology and Immunotechnology -	3	3	3	25	75	100
	Elective 3	UCBTTA31	Allied - Bioinstrumentation	5	4	3	25	75	100
	Skill Enhancement Course SEC4	UCBTPS31	Allied Practical III - Bioinstrumentation	3	1	3	25	75	100
IV	Skill Enhancement Course SEC5 [Allied Dept.] [Online Exam]	UCBTOS32	Mushroom Cultivation	1	1	2	25	75	100
	EVS [Main Dept.]	-	Environmental Studies	1	-	-	-	-	-
	Ability Enhancement Compulsory Course [Eng. Dept.]	UCSSTM31	Soft Skill III	2	2	3	25	75	100
			TOTAL	30	22	-	200	600	800

			SEMESTER IV						
	Generic Elective	UCTATL41 UCURTL41	Tamil IV Urdu IV	-					
1	Languages (To choose 1 out	UCARTL41	Arabic IV	6	3	3	25	75	100
	of 4)	UCHDTL41	Hindi IV						
Ш	English	UCENTL41	English IV	4	3	3	25	75	100
	Core Course 7	UCBTTC41	Genetic Engineering and rDNA Technology	5	4	3	25	75	100
III	Core Course 8	UCBTPC42	Practical IV: Genetic Engineering and rDNA Technology	3	3	3	25	75	100
	Elective 4	UCBTTA41	Allied – Bioinformatics and Biostatistics	4	4	3	25	75	100
	Skill Enhancement Course SEC6	UCBTPS41	Allied Practical IV – Bioinformatics and Biostatistics	3	2	3	25	75	100
IV	Skill Enhancement Course SEC7 [Allied Dept.]	UCBTTS42	Organic Farming & Health Management	2	2	2	25	75	100
	EVS [Main Dept.] [Online Exam]	UCESOM41	Environmental Studies	1	2	2	25	75	100
	Ability	UCSSTM41	Soft Skill IV	2	2	3	25	75	100

			Grand Total	180	140	-	1200	3600	4800
			TOTAL	30	21	-	175	525	700
			1				.=-		
	eligible for obtainin	•		, 141	J J J J I I I	arrau	, 011111		
V	Extension Activity SWAYAM / NAAN I	UCEXAM61	Extension Activity nline Spoken Tutorial by IIT Bom	- nbav – M	1 000 [M	andat	25 tory Onlin	75 le Course	100
IV	Professional Competency [Online Exam]	UCBTOP61	General Awareness for Competitive Examinations	2	2	2	25	75	100
	Discipline Specific Elective 4	UCBTTE63/ UCBTTE64	Forensic Science/ Good Laboratory Practices	5	3	3	25	75	100
	Discipline Specific Elective 3	UCBTTE61/ UCBTTE62/	Marine Biotechnology/ Food Technology	5	3	3	25	75	100
Ш	Core Course 15	UCBTTC63	Environmental and Industrial Biotechnology	5	4	3	25	75	100
	Core Course 14	UCBTTC62	Pharmaceutical Biotechnology	6	4	3	25	75	100
	Core Course 13	UCBTTC61	Bioentrepreneurship	6	4	3	25	75	100
			SEMESTER VI						
	110013)		TOTAL	30	26	-	200	600	800
IV	Summer Internship/Indust rial Training (30 Hours)	UCBTIM51	Internship/Industrial Training	2	2	3	25	75	100
	VED [Online Exam]	UCVEOM51	Value Education	2	2	2	25	75	100
	Discipline Specific Elective 2	UCBTTE53/ UCBTTE54/	Bioethics and Biosafety/ Cancer Biology	3	3	3	25	75	100
	Discipline Specific Elective 1	UCBTTE51/ UCBTTE52/	Nano Biotechnology/ Enzymology	4	4	3	25	75	100
III	Core Course 12	UCBTPC51	Practical V: Plant Biotechnology, Animal Biotechnology and Environmental and Industrial Biotechnology	4	3	3	25	75	100
	Core Course 11	UCBTJC51	Project With Viva-voce	5	4	3	25	75	100
	Core Course 10	UCBTTC52	Animal Biotechnology	5	4	3	25	75	100
	Core Course 9	UCBTTC51	Plant Biotechnology	5	4	3	25	75	100
			SEMESTER V	1 33	1 -5		1	0.0	1 300
	Dept.]		TOTAL	30	25	_	225	675	900
	Course [Eng.								
	Enhancement Compulsory								

PROGRAMME OUTCOMES (POs) for B.Sc. (COMPUTER SCIENCE), B.C.A AND DATA SCIENCE By the end of the Programme, the students will be able to

PO1	Communicate in English the ideas, findings, and results effectively through conversations, meetings, and reports, especially through digital means. Develop linguistic skills in one Indian/Regional language.
PO2	Demonstrate knowledge of the domain's concepts, principles, theories, and techniques and allied subject areas.
PO3	Synergise knowledge with Analytical and experimental skills to systematically create & run programs/carry out experiments/formulate & prove theories to enrich the body of knowledge
PO4	Synthesize learned knowledge and acquired skills to Identify and critically analyze pertinent problems in the relevant discipline using appropriate tools and techniques.
PO5	Exhibit potential to accomplish tasks independently or as a member or leader of a team.
PO6	Utilize specialized instruments and equipment, Computers, Software, the Internet, and other ICT tools to conduct experiments.
PO7	Demonstrate knowledge and scientific understanding to design experiments, use appropriate methodologies, analyze and interpret data and provide solutions, and Exhibit organizational skills and the ability to manage time and resources.
PO8	Create Compounds/Products/Software or Design experiments and collaborate to help Society build a Sustainable Environment.
PO9	Discover a passion for Lifelong Learning through MOOCs, ODL, and Self-learning techniques through optimum use of ICT.
PO10	Identify and assess various environmental issues and suggest measures to overcome them. Exhibit Ethics and Values in professional, Social, and Personal spheres of life, caring for the underprivileged, leading to a better sustainable future
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PROGRAMME SPECIFIC OUTCOMES (PSOs) for B.Sc. (Computer Science) By the end of the Programme, the students will be able to

PSO1	Computational Ability: Implementing fundamentals of computing, computing specialization and domain knowledge suitable for job placement.
PSO2	Problem Analysis: Identify, formulate and analyze complex real-life problems in terms of mathematical modelling and computer science.
PSO3	Design / Development of solutions: Design algorithms for complex, real-world problems through computing systems, components or processes.
PSO4	Investigate Problems: Ability to analyze and investigate complex computing problems by designing experiments analysing and interpreting data.
PSO5	Tool usage: Create, select, modify and apply appropriate technologies and tools to a wide range of computational activities within their limitations
PSO6	Professional ethics: Ability to perform professional practices ethically, keeping in mind cyber regulations & laws.
PSO7	Self-learning: Ability to engage in independent learning for continuous self-development as a computing professional.
PSO8	Communication: Ability to effectively communicate with the technical community
PSO 9	Individual and Teamwork: Ability to work in a hierarchical team both as a member and leader.

MAPPING OF PROGRAMME-SPECIFIC OUTCOMES WITH PROGRAMME OUTCOMES

Programme	Programme Outcomes (POs)									
Specific Outcomes (PSOs)	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
PSO1	✓	✓			✓	✓	✓			
PSO2	✓		✓	✓	✓		✓			
PSO3	✓	✓	✓	✓			✓			
PSO4	✓	✓	✓	✓			✓	✓	✓	
PSO5	✓				✓	✓	✓	✓		
PSO6	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
PSO7	✓		✓	✓	✓	✓	✓	✓	✓	
PSO8	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
PSO9	✓				✓	✓		✓	✓	
PSO10	✓				✓	✓	✓	✓	✓	✓

Mapping Correlation Benchmark

Mapping	1-30%	31-60%	61-70%	71-100%
Matches	1-24	25-50	51-56	57-80
Correlation	Poor	Moderate	High	Very High

COURSE STRUCTURE FOR B.Sc. COMPUTER SCIENCE (For Students admitted from the academic year 2023-2024)

Part	Category	Course Code	Course Title	Hrs./ Week	Credit	Exam. Hrs.	CIA	ESE	TOTAL
			SEMESTER I						
	Generic Elective	UCTATL11	Tamil I						
ı	Languages	UCURTL11	Urdu I	6	3	3	25	75	100
•	(To choose 1 out of 4)	UCARTL11	Arabic I	1					200
	,	UCHDTL11	Hindi I						
II	English	UCENTL11	English I	4	3	3	25	75	100
	Core Course 1	UCCCTC11	Python Programming	5	4	3	25	75	100
Ш	Core Course 2	UCCCPC12	Python Programming Lab	3	3	3	25	75	100
	Elective 1	UCCCTA11/ UCCCTA12	Allied – Mathematics I/ Statistics I	5	4	3	25	75	100
	Skill Enhancement Course SEC1	UCCCPS11	Computational Mathematics Lab I	3	2	3	25	75	100
.,	Foundation Course	UCCCTF11	Problem-Solving Technique - Lab	2	2	2	25	75	100
IV	Ability Enhancement Compulsory Course AEC1	UCSSTM11	Soft Skill I	2	2	3	25	75	100
			TOTAL	30	23	-	200	600	800
			SEMESTER II						
	Generic Elective Languages (To choose 1 out of 4)	UCTATL21	Tamil II]				75	
ı		UCURTL21	Urdu II	6	3	3	25		100
•		UCARTL21	Arabic II						200
		UCHDTL21	Hindi II						
II	English	UCENTL21	English II	4	3	3	25	75	100
	Core Course 3	UCCCTC21	Data Structure and Algorithms	5	5	3	25	75	100
	Core Course 4	UCCCPC22	Data Structure and Algorithms Lab	3	3	3	25	75	100
Ш	Elective 2	UCCCTA21/ UCCCTA22	Allied – Mathematics II/ Statistics II	5	3	3	25	75	100
	Skill Enhancement Course SEC2	UCCCPS21	Computational Mathematics Lab II	3	2	3	25	75	100
IV	Skill Enhancement Course SEC3 [Foundation CourseMajor Dept.]	UCCCPS22	Office Automation Lab	2	2	2	25	75	100
	Ability Enhancement Compulsory Course AEC2	UCSSTM21	Soft Skill II	2	2	3	25	75	100
			TOTAL	30	23	-	200	600	800
		LICTATION	SEMESTER III	1				I	
	Generic Elective	UCTATL31	Tamil III	1					
1	Languages	UCURTL31	Urdu III	6	3	3 3	25	75	100
	(To choose 1 out of 4)	UCARTL31	Arabic III	-					
L	e !: !	UCHDTL31	Hindi III	-	_				400
II	English	UCENTL31	English III	4	3	3	25	75	100
Ш	Course 5	UCCSTC31	Microprocessor and Microcontroller	5	5	3	25	75	100
	Course 5	<u> </u>	iviicrocontroller						

	Core Course 6	UCCSPC32	Microprocessor and Microcontroller Lab III	3	3	3	25	75	100
	Elective 3	UCCSTA31	Statistical Methods and their Applications I	5	4	3	25	75	100
	Skill Enhancement Course SEC4	UCCSPS31	Statistical Methods and their Applications Lab -I	3	1	3	25	75	100
IV	Skill Enhancement Course SEC5 [Major Dept.] [Online Exam]	UCCCOS32	Fundamentals of Information Technology	1	1	2	25	75	100
	EVS [Allied Dept.]	-	Environmental Studies	1	-	1	•	1	-
	Ability Enhancement Compulsory Course AEC3	UCSSTM31	Soft Skill III	2	2	3	25	75	100
			TOTAL	30	22	-	225	675	800

SEMESTER IV										
	Compania Florations	UCTATL41	Tamil IV				25			
	Generic Elective Languages	UCURTL41	Urdu IV	6	3	3		75	100	
'	(To choose 1 out of 4)	UCARTL41	Arabic IV			3	23	75	100	
	,	UCHDTL41	Hindi IV							
II	English	UCENTL41	English IV	4	3	3	25	75	100	
	Core Course 7	UCCCTC41	Java Programming	5	4	3	25	75	100	
Ш	Core Course 8	UCCCPC42	Java Programming Lab IV	3	3	3	25	75	100	
	Elective 4	UCCSTA41	Statistical Methods and their Applications II	4	4	3	25	75	100	
	Skill Enhancement Course SEC6	UCCSPS41	Statistical Methods and their Applications Lab -II	3	2	3	25	75	100	
IV	Skill Enhancement Course 4 [Major Dept]	UCCSTS42	PHP Programming/Introducti on to HTML	2	2	2	25	75	100	
	EVS [Allied Dept] [Online Exam]	UCESOM41	Environmental Studies	1	2	2	25	75	100	
	Ability Enhancement Compulsory Course AEC4	UCSSTM41	Soft Skill IV	2	2	3	25	75	100	
			TOTAL	30	25	-	225	675	900	
			SEMESTER V		I					
	Core Course 9	UCCSTC51	Software Engineering	5	4	3	25	75	100	
	Core Course 10	UCCSTC52	Database management System	5	4	3	25	75	100	
Ш	Core Course 11	UCCSPC53	Database Management System Lab V	4	3	3	25	75	100	
	Core Course 12	UCCSJC51	Project with Viva Voce	5	4	3	25	75	100	
	Discipline-Specific Elective 1	UCCSTE51/ UCCSTE52/	Artificial Intelligence Robotics and its	4	4	3	25	75	100	

			Applications									
	Discipline-Specific Elective 2	Introduction to Data Science Computational Intelligence	3	3	3	25	75	100				
	VED [Online Exam]	UCVEOM51	Value Education	2	2	2	25	75	100			
IV	Summer Internship/Industrial Training (30 Hours)	UCCSIM51	Internship/Industrial Training	2	2	3	25	75	100			
			TOTAL	30	26	-	200	600	800			
SEMESTER VI												
	Core Course 13	UCCSTC61	.NET Programming	6	4	3	25	75	100			
	Core Course 14	UCCSPC62	.NET Programming Lab VI	6	4	3	25	75	100			
III	Core Course 15	UCCCTC63	Computer Networks	6	4	3	25	75	100			
""	Discipline Specific Elective 3	UCCSTE61/ UCCSTE62/	 Mobile Application Development Machine Learning 	5	3	3	25	75	100			
	Discipline Specific Elective 4	UCCSPE63/ UCCSPE64	Mobile Application Development Lab Machine Learning Lab	5	3	3	25	75	100			
IV	Professional Competency [Online Exam]	UCCSOP61	General Awareness for Competitive Examinations	2	2	2	25	75	100			
٧	Extension Activity	UCEXAM61	Extension Activity	-	1	-	25	75	100			
	SWAYAM / NAAN MU eligible for obtaining t		ne Spoken Tutorial by IIT Bon	nbay – I	MOOC	[Mand	atory Onlir	ne Course	e to be			
			TOTAL	30	21	-	175	525	700			
			Grand Total	180	140	-	1200	3600	4800			

PROGRAMME SPECIFIC OUTCOMES (PSOs) for B.C.A By the end of the Programme, the students will be able to

PSO1	Computational Ability: Implementing computing fundamentals, computing specialization,
F301	and domain knowledge suitable for job placement.

PSO2	Problem Analysis: Identify, formulate, and analyze complex real-life problems in terms of mathematical modeling and computer science.
PSO3	Design / Development of solutions: Design algorithms for complex, real-world problems through computing systems, components, or processes.
PSO4	Investigate Problems: Ability to analyze and investigate complex computing problems by designing experiments analyzing and interpreting data.
PSO5	Exploration: Ability to explore the stored data to bring out valuable information.
PSO6	Professional ethics: Ability to perform professional practices ethically, keeping in mind cyber regulations & laws.
PSO7	Self-learning: Ability to engage in independent learning for continuous self-development as a computing professional.
PSO8	Communication: Ability to effectively communicate with the technical community
PSO 9	Individual and Teamwork: Ability to work in a hierarchical team as a member and leader.
PSO 10	Innovation and entrepreneurship: Ability to apply innovative ideas to become an entrepreneur.

MAPPING OF PROGRAMME-SPECIFIC OUTCOMES WITH PROGRAMME OUTCOMES

Programme				P	rogram	me Out	comes (PC	s)		
Specific Outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
(PSOs)	101	FUZ	103	104	103	100	FO	108	103	1010
PSO1	✓	✓			✓	✓	✓			
PSO2	✓		✓	✓	✓		✓			
PSO3	✓	✓	✓	✓			✓			
PSO4	✓	✓	✓	✓			✓	✓	✓	
PSO5	✓				✓	✓	✓	✓		
PSO6	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
PSO7	✓		✓	✓	✓	✓	✓	✓	✓	
PSO8	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
PSO9	✓				✓	✓		✓	✓	
PSO10	✓				✓	✓	✓	✓	✓	✓

Mapping Correlation Benchmark

Mapping	1-30%	31-60%	61-70%	71-
				100%
Matches	1-24	25-50	51-56	57-80
Correlation	Poor	Moderate	High	Very
				High

COURSE STRUCTURE FOR B.C.A. (For Students admitted from 2023-2024)

Part	단 Category Course Cod		Course Title	Hrs./ Week	Credit	Exam. Hrs.	CIA	ESE	TOTAL
			SEMESTER I						
	Generic Elective	UCTATL11	Tamil I						
ı	Languages	UCURTL11	Urdu I	6	3	3	25	75	100
	(To choose 1 out of 4)	UCARTL11 UCHDTL11	Arabic I Hindi I	1					
II	English	UCENTL11	English I	4	3	3	25	75	100
"						_			
	Core Course 1	UCCCTC11	Python Programming	5	4	3	25	75	100
Ш	Core Course 2	UCCCPC12	Python Programming Lab	3	3	3	25	75	100
	Elective 1	UCCCTA11/ UCCCTA12	Allied – Mathematics I/ Statistics I	5	4	3	25	75	100
	Skill Enhancement Course SEC1	UCCCPS11	Computational Mathematics Lab I	3	2	3	25	75	100
	Foundation Course	UCBCPF11	Structured Programming in C Lab	2	2	2	25	75	100
IV	Ability Enhancement Compulsory Course AEC1	UCSSTM11	Soft Skill I	2	2	3	25	75	100
			TOTAL	30	23	-	200	600	800
			SEMESTER II						
		UCTATL21	Tamil II						
	Generic Elective Languages	UCURTL21	Urdu II						
I	(To choose 1 out of	UCARTL21	Arabic II	6	3	3	25	75	100
	4)	UCHDTL21	Hindi II	1					
11	English	UCENTL21	-	4	3	3	25	75	100
"	English	OCENTEZI	English II Object-Oriented	4	3	3	25	/5	100
	Core Course 3	UCBCTC21	Programming Concepts Using C++	5	5	3	25	75	100
Ш	Core Course 4	UCBCPC22	Object-Oriented Programming Concepts Using C++ Lab	3	3	3	25	75	100
	Elective 2	UCCCTA21/ UCCCTA22	Allied – Mathematics II/ Statistics II	5	3	3	25	75	100
	Skill Enhancement Course SEC2	UCCCPS21	Computational Mathematics Lab II	3	2	3	25	75	100
IV	Skill Enhancement Course SEC3	UCCCPS22	Office Automation Lab	2	2	2	25	75	100
IV	Ability Enhancement Compulsory Course AEC2	UCSSTM21	Soft Skill II	2	2	3	25	75	100
			TOTAL	30	23	-	200	600	800
			SEMESTER III						
	Generic Elective	UCTATL31	Tamil III						
ı	Languages (To choose 1 out of	UCURTL31	Urdu III	6	3	3	25	75	100
	4)	UCARTL31	Arabic III	1					

		UCHDTL31	Hindi III						
II	English	UCENTL31	English III	4	3	3	25	75	100
	Core Course 5	UCBCTC31	Data Structures and Algorithms	5	5	3	25	75	100
Ш	Core Course 6	UCBCPC32	Data Structures and Algorithms Lab	3	3	3	25	75	100
	Elective 3	UCBCTA31	Financial Accounting	5	4	3	25	75	100
	Skill Enhancement Course SEC4	UCBCPS31	Financial Accounting Lab	3	1	3	25	75	100
IV	Skill Enhancement Course SEC5 [Major Dept.] [Online Exam]	UCCCOS32	Fundamentals of Information Technology	1	1	2	25	75	100
	EVS [Allied Dept.]	-	Environmental Studies	1	-	-	-	-	-
	Ability Enhancement Compulsory Course AEC3	UCSSTM31	Soft Skill III	2	2	3	25	75	100
			TOTAL	30	22	-	225	675	800

			SEMESTER IV						
	Generic Elective	UCTATL41	Tamil IV						
	Languages	UCURTL41	Urdu IV	6	3	3	25	75	100
ı	(To choose 1 out of 4)	UCARTL41	Arabic IV]	3		23	, 5	100
	,	UCHDTL41	Hindi IV						
II	English	UCENTL41	English IV	4	3	3	25	75	100
	Core Course 7	UCCCTC41	Programming in Java	5	4	3	25	75	100
	Core Course 8	UCCCPC42	Programming in Java Lab	3	3	3	25	75	100
III	Elective 4	UCBCTA41	Cost and Management Accounting	4	4	3	25	75	100
	Skill Enhancement Course SEC6	UCBCPS41	Cost and Management Accounting - Lab	3	2	3	25	75	100
	Skill Enhancement Course SEC7 [Major Dept]	UCCCTS42	PHP Programming/Introductio n to HTML	2	2	2	25	75	100
IV	EVS [Allied Dept] [Online Exam]	UCESOM41	Environmental Studies	1	2	2	25	75	100
	Ability Enhancement Compulsory Course AEC4	UCSSTM41	Soft Skill IV	2	2	3	25	75	100
			TOTAL		25	-	225	675	900
			SEMESTER V						
	Core Course 9	UCBCTC51	Operating System	5	4	3	25	75	100
ш	Core Course 10	UCBCTC52	ASP.Net Programming	5	4	3	25	75	100
	Core	UCBCPC53	ASP.Net Programming Lab V	4	3	3	25	75	100

			Grand Total	180	140	<u> </u>	1200	3600	4800
	eligible for obtaining	the UG degree	TOTAL	30	21	-	175	525	700
	-		I Iline Spoken Tutorial by IIT Bom	ıbay – N	1) 300N	/land	ı atory Onlir	ne Course t	to be
V	Extension Activity	UCEXAM61	Extension Activity	-	1	-	25	75	100
IV	Professional Competency [Online Exam]	UCBCOP61	General Awareness for Competitive Examinations	2	2	2	25	75	100
	Discipline Specific Elective 4	UCBCTE63/ UCBCTE64	Analytics for Service Industry Software Metrics	5	3	3	25	75	100
Ш	·	UCBCTE61/ UCBCTE62/	Artificial Intelligence Information Security	5	3	3	25	75	100
	Core Course 15	UCCCTC63	Computer Networks	6	4	3	25	75	100
	Core Course 14	UCBCPC62	R Programming Lab	6	4	3	25	75	100
	Core Course 13	UCBCTC61	Data Analytics using R Programming	6	4	3	25	75	100
			SEMESTER VI						
	·		TOTAL	30	26	-	200	600	800
IV	Summer Internship/Industria I Training (30 Hours)	UCBCIM51	Internship/Industrial Training	2	2	3	25	75	100
	VED [Online Exam]	UCVEOM51	Value Education	2	2	2	25	75	100
	Discipline Specific Elective 2	UCBCTE53/ UCCCTE54/	 Software Project Management Computational Intelligence 	3	3	3	25	75	100
	Discipline Specific Elective 1	UCBCTE51/ UCBCTE52/	1. DatabaseManagementSystem2. Image Processing	4	4	3	25	75	100
	Core Course 12	UCBCJC51	Project with Viva -Voce	5	4	3	25	75	100
	Course 11								

PROGRAM SPECIFIC OUTCOMES (PSOS)- BSC(DATA SCIENCE) By the end of the program, students will be able to

PSO1 Exhibit good domain knowledge and complete the assigned responsibilities Effectively and

	efficiently on par with the expected quality standards.
PSO2	Apply analytical and critical thinking to identify, formulate, analyze, and solve complex problems to reach authenticated conclusions
DCOO	
PSO3	Design and develop solutions for complex problems with specified needs through appropriate
	consideration and accuracy.
PSO4	Establish the ability to Listen, read, proficiently communicate, and articulate
	Complex ideas concerning the needs and abilities of diverse audiences.
PSO5	Deliver innovative ideas to instigate new business ventures and possess the qualities Of a good
	entrepreneur.
PSO6	Acquire the qualities of a good leader and engage in efficient decision-making.
PSO7	Graduates will be able to undertake any responsibility as an individual/member of
	Multidisciplinary teams and understand team leadership.
PSO8	Function as a socially responsible individual with ethical values and accountability to ethically
	validate any actions or decisions before proceeding and actively contribute to societal
	concerns.
PSO9	Identify and address their own educational needs in a changing world in ways sufficient to
	Maintain competence and to allow them to contribute to the advancement of knowledge.
PSO10	Demonstrate knowledge and understanding of management principles and apply these to one
	own work to manage projects in a multidisciplinary environment.

MAPPING OF PROGRAMME-SPECIFIC OUTCOMES WITH PROGRAMME OUTCOMES

Programme					Program	me Outo	omes (POs)		
Specific Outcomes (PSOs)	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
PSO1	✓	✓			✓	✓	✓			
PSO2	✓		✓	✓	✓					
PSO3	✓	✓	✓	✓						
PSO4	✓	✓	✓	✓				✓		
PSO5	✓				✓	✓	✓	✓		
PSO6	✓	✓	✓	✓	✓	✓		✓		✓
PSO7	✓		✓	✓	✓	✓	✓	✓		
PSO8	✓	✓	✓	✓	✓	✓	✓	✓		✓
PSO9	✓					✓				
PSO10	✓					✓	✓	✓		✓

Mapping Correlation Benchmark

Mapping	1-30%	31-60%	61-70%	71-100%
Matches	1-24	25-50	51-56	57-80
Correlation	Poor	Moderate	High	Very High

COURSE STRUCTURE FOR DATA SCIENCE (For Students admitted from 2023-2024)

Part	Category	Course Code	Course Title	Hrs./ Week	Credit	Exam. Hrs.	CIA	ESE	TOTAL
		<u>'</u>	SEMESTER I			1			
		UCTATL11	Tamil I						
	Generic Elective Languages	UCURTL11	Urdu I	_ [_			400
ı	(To choose 1 out of 4)	UCARTL11	Arabic I	6	3	3	25	75	100
	014)	UCHDTL11	Hindi I						
II	English	UCENTL11	English I	4	3	3	25	75	100
	Core Course 1	UCCCTC11	Python Programming	5	4	3	25	75	100
	Core Course 2	UCCCPC12	Python Programming Lab	3	3	3	25	75	100
=	Elective 1	UCCCTA11/ UCCCTA12	Allied – Mathematics I/ Statistics I	5	4	3	25	75	100
	Skill Enhancement Course SEC1	UCCCPS11	Computational Mathematics Lab I	3	2	3	25	75	100
IV	Foundation Course	UCCCTF11	Problem-Solving Technique - Lab	2	2	3	25	75	100
	Ability Enhancement Compulsory Course AEC1	UCSSTM11	Soft Skill I	2	2	3	25	75	100
			TOTAL	30	23	-	200	600	800
			SEMESTER II	_					
		UCTATL21	Tamil II	T					
	Generic Elective Languages	UCURTL21	Urdu II						
ı	(To choose 1 out	UCARTL21	Arabic II	6	3	3 3	25	75	100
	of 4)	UCHDTL21	Hindi II						
II	English	UCENTL21	English II	4	3	3	25	75	100
	Core Course 3	UCCCTC21	Data Structure and Algorithms	5	5	3	25	75	100
Ш	Core Course 4	UCCCPC22	Data Structure and Algorithms Lab	3	3	3	25	75	100
	Elective 2	UCCCTA21/ UCCCTA22	Allied – Mathematics II/ Statistics II	5	3	3	25	75	100
	Skill Enhancement Course SEC2	UCCCPS21	Computational Mathematics Lab II	3	2	3	25	75	100
IV	Skill Enhancement Course SEC3	UCCCPS22	Office Automation Lab	2	2	2	25	75	100
	Ability Enhancement Compulsory Course AEC2	UCSSTM21	Soft Skill II	2	2	3	25	75	100
			TOTAL	30	23	-	200	600	800
			SEMESTER III						

	Generic Elective	UCTATL31	Tamil III						
١.	Languages	UCURTL31	Urdu III	6	3	3	25	75	100
'	(To choose 1 out of 4)	UCARTL31	Arabic III		3	3	23	/3	100
	7)	UCHDTL31	Hindi III						
II	English	UCENTL31	English III	4	3	3	25	75	100
	Core Course 5	UCDSTC31	Data Science	5	5	3	25	75	100
Ш	Core Course 6	UCDSPC32	Data Science Lab	3	3	3	25	75	100
	Elective 3	UCDSTA31	Discrete Mathematics I	5	4	3	25	75	100
	Skill Enhancement Course SEC4	UCDSPS31	Discrete Mathematics I Lab.	3	1	3	25	75	100
IV	Skill Enhancement Course SEC5 [Major Dept] [Online Exam]	UCDSOS32	Multimedia Systems	1	1	2	25	75	100
	EVS	-	Environmental Studies	1	-	-	-	-	-
	Ability Enhancement Compulsory Course AEC3	UCSSTM31	Soft Skill III	2	2	3	25	75	100
			TOTAL	30	22	-	200	600	800

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			SEMESTER IV						
	Generic Elective	UCTATL41	Tamil IV						
	Languages	UCURTL41	Urdu IV	-		_	25	75	400
1	(To choose 1 out	UCARTL41	Arabic IV	6	3	3	25	75	100
	of 4)	UCHDTL41	Hindi IV						
II	English	UCENTL41	English IV	4	3	3	25	75	100
	Core Course 7	UCDSTC41	Object Oriented Programming with Java	5	4	3	25	75	100
Ш	Core Course 8	UCDSPC42	Object Oriented Programming with Java Lab	3	3	3	25	75	100
	Elective 4	UCCCTA41	Discrete Mathematics II	4	4	3	25	75	100
	Skill Enhancement Course SEC6	UCCCPS41	Discrete Mathematics II - Lab	3	2	3	25	75	100
	Skill Enhancement Course SEC7	UCDSTS41	Web Technology	2	2	3	25	75	100
IV	EVS [Eng. Dept.]	UCESOM41	Environmental Studies	1	2	2	25	75	100
l v	Ability Enhancement Compulsory Course AEC4	UCSSTM41	Soft Skill IV	2	2	3	25	75	100
			TOTAL	30	25	-	225	675	900
	ı	1	SEMESTER V		1				
	Core Course 9	UCDSTC51	Relational Database Management System	5	4	3	25	75	100
Ш	Core Course 10	UCDSPC52	RDBMS Using ORACLE Lab	5	4	3	25	75	100
	Core	UCDSTC53	Machine Learning	4	4	3	25	75	100

	Course 11									
	Core Course 12	UCDSJC51	Proj	ect with Viva Voce	5	4	3	25	75	100
	Discipline Specific Elective 1	UCDSTE51/ UCDSTE52/		a Mining & Warehousing ber Forensics	4	3	3	25	75	100
	Discipline Specific Elective 2	UCDSTE53/ UCDSTE54/		ware Testing / work Security	3	3	3	25	75	100
IV	VED (Online Exam)	UCVEOM51	Valu	ue Education	2	2	2	25	75	100
IV	Summer Internship/Industr ial Training (30 Hours)	UCDSIM51	Internship/Industrial Training		2	2	3	25	75	100
			тот	AL	30	26	-	200	600	800
				SEMESTER VI						
	Core Course 13	UCDSTC61	IoT	and Cloud Technologies	6	4	3	25	75	100
	Core Course 14	UCDSTC62		IoT and Cloud Technologies –Lab VI		4	3	25	75	100
	Core Course 15	UCDSTC63	Arti	ficial Intelligence	6	4	3	25	75	100
Ш	Discipline Specific Elective 3	UCDSTE61/ UCDSTE62/	Ente	metrics / erprise Resource ining	5	3	3	25	75	100
	Discipline Specific Elective 4	UCDSTE63/ UCDSTE64	Tecl	n Source Software nnologies / Qualitative itude	5	3	3	25	75	100
IV	Professional Competency [Online Exam]	UCDSOP61	General Awareness for Competitive Examinations		2	2	2	25	75	100
V	Extension Activity	UCEXAM61	Extension Activity		-	1	-	25	75	100
	SWAYAM / NAAN N eligible for obtaining			poken Tutorial by IIT Bor	mbay – N	MOOC [N	/Janda	atory Onl	ine Cours	e to be
				TOTAL	30	21	-	175	525	700
				Grand Total	180	140	-	1050	3250	4300

REGULATIONS POSTGRADUATE DEGREE PROGRAMMES (The Students Admitted from 2023-2024)

CBCS

Choice-Based Credit System is a Flexible System of Learning. Credit defines the quantum of content/syllabi prescribed for a course and determines the number of hours of instruction required. The distinguishing features of CBCS are the following:

It permits the students to:

- Choose electives from a wide range of elective courses offered by various departments of the college
- Undergo additional courses and acquire more than the required number of credits
- Adopt an interdisciplinary approach to learning
- Make the best use of the expertise of available faculty

1. Eligibility for Admission

A Student is eligible for admission to a Master's degree programme if he has successfully completed a three-year undergraduate degree awarded by any University recognized by the UGC in the same subject except for the following:

For M.A. History

Any three-year undergraduate degree holder is eligible.

For M.Sc. Mathematics

UG degree in Mathematics/Statistics are eligible.

For M.Sc. Biochemistry

UG degree in Chemistry / Biochemistry / Zoology / Biotechnology are eligible.

For M.Sc. Biotechnology

UG degree in Zoology / Biochemistry / Chemistry / Botany/ Biotechnology / Microbiology are eligible.

For M.Sc. Computer Science

UG degree in Computer Science / Software Computer Science / Computer Applications are eligible.

For M.Com.

UG degree in Commerce / Corporate Secretary ship / Industrial Organization / Business Administration / B.Com. Computer Application / B.Com. Finance & Accounts / B.A. (Eco.) with two Account Courses are eligible.

For M.A. English Lit.

Any three-year UG Course with the English language in four semesters is eligible.

2. Cancellation of Admission

The admission is at the candidate's risk and is provisional, subject to the approval of Thiruvalluvar University. If, for any reason, the admission is not approved, the candidate shall not hold the College responsible for it. If selected, in the event of leaving the College after admission but any time before

completing the course, the fee for the residual period of the programme should be paid by the student as per the rules in force.

3. Eligibility for the Award of Degree

Students shall be eligible for the award of the Degree only if he has undergone the prescribed course of study in this College for a period of two academic years and passed the examinations of all the Four Semesters prescribed, earning 91 credits and fulfilling such conditions as have been prescribed therefore.

4. Duration

The duration of the course shall consist of 4 Semesters in two academic years.

- a. Each academic year shall be divided into two semesters. The first academic year shall comprise the first and second semesters, and the second academic year, the third and fourth semesters, respectively.
- b. The odd semesters shall consist of the period from June to November of each year and the even semesters from December to April of each year. There shall be at least 90 working days composed of 450 instructional hours for each semester.

5. Course of Study

The main subject of study for Master's degree courses shall consist of the following:

PART I: Core Courses, Discipline Centric Elective and Elective including Project.

PART II: Skill Enhancement Courses, Internship, Value-Based Course

PART III: Extension activity

6. Project Work

It is considered a special course involving the application of knowledge in solving/analyzing/exploring real-life situations / difficult problems. The new CBCS provides an opportunity for postgraduate students to learn research components at this level. The project work would be 5 credits given in lieu of one discipline-specific paper in the final semester.

The duration of the project work is 90 hours within the College campus included in the timetable. If the project work requires fieldwork in the industry/data collection / national laboratories or any other reputed institute, the period for such work is assigned as two weeks. If the project work requires fieldwork during the working days of the college, no separate hours are to be earmarked in the final semester timetable.

Evaluation of the Project Work

The Project Work should be individual for PG students. Regarding the evaluation of the project work, the total mark is 100. It is divided into 75 marks for project evaluation and 25 marks for viva-voce examination. The marks for project work evaluation and viva voce are to be awarded jointly by the internal examiner and the external examiner.

The external examiner is to be drawn from related faculty from affiliating University Departments / any affiliated college offering the respective postgraduate programme under the affiliating University.

7. INTERNSHIP/INDUSTRIAL TRAINING

Objectives:

- 1. To improve the employability of students pursuing a postgraduate level in general degree Programme.
- 2. To focus on outcome-based learning in degree Programmes.
- 3. To promote active linkage between the higher education system and industry, non-commercial and commercial enterprises/organizations.

Duration:

- 1. The Internship/Industrial training during the first-year vacation will help the students gain valuable work experience, that connects classroom knowledge to real-world experience and to narrow down and focus on the career path.
- 2. The period of Internship/Industrial training shall be of 30 hours duration apart from the regular teaching hours.
- 3. Students may commence their Internship/Industrial training from the II Semester holidays onwards.
- 4. The spells of Internship/Industrial training shall be scheduled either continuously or at intervals depending upon the requirement and practicality of the discipline concerned.

Evaluation of the Internship/Industrial Training Report

Regarding the evaluation of the Internship/Industrial training project report and project with a viva-voce examination in the fifth semester, the total mark is 100. It is divided into 75 marks for project evaluation and 25 marks for the viva-voce examination. The marks for project work evaluation and viva-voce are to be awarded jointly by the internal examiner and the external examiner.

The external examiner is to be drawn from related faculty affiliating University Departments / any affiliated college within our University jurisdiction.

Credit Mechanism:

- 1. Credits for the apprenticeship/internship programme shall be included in the total credits of the entire programme.
- 2. Five (5) Credits for the degree programme should be assigned to internship / Industrial Training.

Programme	Duration	Credit	Tota	al Marks
Internship/Industrial Training Report	30 hours (Beyond Regular	5	Viva	Project Report
micerionip, maastrar manning nepore	Teaching hours)		25	75

Submission of Internship / Industrial Training Reports

The projects for the PG degree programme may be independent. The format for the title page, certificate by the project advisor, declaration by the candidate(s) and the certificate for internship training shall be in the format as prescribed by the Examination Cell. The project reports duly countersigned by the Head of the Department concerned and the Principal should be submitted to the office of the Controller of Examination within the specified date.

8. Continuous Internal Assessment [CIA] Test

The following assessment procedure will be followed for Internal Marks:

CIA Test I: Two / Three hours duration for 75 marks

CIA Test II : Three hours duration for 75 marks

Marks Distribution	Theory & Practical
CIA Test Marks 150 to be converted to	10 Marks
Library Usage in Hours	5 Marks
Assignment / Seminar / Observation	5 Marks
Attendance	5 Marks
TOTAL	25 Marks

Reg. No	Name	Test I - 75	Test II - 75	Total - 150	Marks converted to 10	Library Usage Min. 30 hours – 5	Assignment/ Seminar 5	Attendance - 5	Total for 25 (Rounded Off)

In the last column, any fraction may be rounded off to the nearest integer.

The marks for the Attendance component in the Continuous Internal Assessment should be calculated as follows:

Attendance Earned	Category	Marks to be Awarded
90 % and Above	Highly Regular	5
75% but below 90%	Regular	4
65% but below 75%	Shortage	3
55% but below 65%	Detained	2
Below 55 %	Redo	0

Library Usage for all PG Programmes - 30 hours per Semester

Library usage for UG in hours	Marks to be awarded
1 hour to 10 hours	3
10 hours to 20 hours	4
20 hours and above	5

9. Requirements for proceeding to Subsequent Semesters

- (i) Students shall register their names for the First Semester Examinations after admission to the P.G. Programme.
- (ii) Students shall be permitted to proceed from the First Semester up to Final Semester, irrespective of the number of arrears in any of the End Semester Examinations.
- (iii) Students shall be eligible to go to subsequent semesters as per the attendance rules prescribed by the Governing Body of Islamiah College from time to time.

10. Requirement to take the End Semester Examinations

- a) The student will be permitted to take the University Examination for any Semester, if
 - he secures at least 75% of attendance out of the 90 instructional days / 450 instructional hours during the particular Semester.
 - he earns a progress Certificate from the Head of the Institution for having satisfactorily completed the Course of Study prescribed in the Subject as required by the Regulations, and
 - his conduct has been satisfactory.

b) Students will be permitted to appear for Practical examinations only if they have attended 75% of the practical classes. Students who have secured attendance less than 75% but 65% and above shall be permitted to take the Examination on the recommendation of the Head of the Department and approved by the Principal to condone the lack of attendance as well on the payment of the prescribed condonation fee to the College. A Student who has secured attendance of less than 65% but 55% and above is detained for that particular semester. He / She will be permitted to write the examinations in the next Odd / Even Semester by paying the prescribed condonation fee.

The Students who have an attendance of less than 55% are detained, and they shall REDO the semester after completion of the programme and after getting re-admission, that too at the sole discretion of the Principal. However, readmission will be allowed only once during the duration of the programme. Those who asked to redo the course can continue their studies without a break, but that particular semester after completing the programme by attending the special classes arranged by HOD concerned.

The REDO students who have already completed their CIA Test and Practical Examination with at least minimum qualifying marks may be exempted from reappearing for the CIA Test and Practical Examination again in the readmitted Semester. However, if any student wishes to improve upon his marks, he can appear for the CIA Test and Practical Examinations. In such a case, the original marks or the marks secured in the readmitted semester, whichever is higher, shall be taken as final marks

11. Passing Minimum

- a. There shall be no Passing Minimum for Internal Assessment.
- b. For End Semester Examinations, the minimum passing Letter Grade shall be "P" (Minimum 50 % of the maximum marks prescribed for the paper).
- c. In the aggregate (End Semester Examination + Internal) the minimum passing Letter Grade shall be "P" for each Paper / Practical / Project and Viva-voce.
- d. Final Grading shall be based on the overall Grade Points earned (Internal + External)

12. Grading System

The marks earned by a candidate in the Internal Assessment and End Semester Examinations for each of the courses will be added. The marks thus obtained will then be converted into Letter Grades and Grade points as per the details given below:

Range of Marks	Letter Grade	Grade Points
96 – 100	0	10
86 – 95	A+	9
76 – 85	Α	8
66 – 75	B+	7
55 – 65	В	6
50 – 54	С	5
00 – 49	F	0
Absent	Ab	0

13. <u>ILLUSTRATION OF SGPA</u>

Semester	Course	Credit	Grade Letter	Grade Point	Credit Point [Credit x Grade]
	Course 1	5	A +	9	45
l	Course 2	5	Α	8	40
	Course 3	4	0	10	40
	Course 4	4	Р	5	20
	Elective	4	В	6	24
	Total	22			169
	Course 1	5	Р	5	25
II	Course 2	5	B+	7	35
	Course 3	4	0	10	40
	Course 4	4	Α	8	32
	Elective	4	A+	9	36
	Total	22			168
Semester	Course	Credit	Grade	Grade Point	Credit Point
			Letter		[Credit x Grade]
	Course 1	5	A+	9	45
III	Course 2	5	0	10	50
	Course 3	4	В	6	24
	Course 4	4	В	6	24
	Elective	4	Р	5	20
	Total	22			163
	Course 1	5	0	10	50
IV	Course 2	5	Α	8	40
	Course 3	4	A+	9	36
	Course 4 / Project	4	B+	7	28
	Work				
	Elective	4	Р	5	20
	Non Major Elective	2	0	10	20
	Total	24			194

For Example, the calculation of SGPA for the Four Semesters are calculated as follows:

$$SGPAI = \frac{169}{22} = 7.7$$
 $SGPAII = \frac{168}{22} = 7.6$
 $SGPAIII = \frac{163}{22} = 7.4$
 $SGPAIV = \frac{194}{24} = 8.1$

The CGPA for the PG degree is:

$$CGPA = \frac{169 + 168 + 163 + 194}{90} = \frac{694}{90} = 7.7$$

14. Classification of Successful Candidates

Successful candidates who passed all the specified courses in a programme are classified as follows:

Passed all the courses with CGPA 7.5 and above : First Class with

without any arrear Distinction

Passed all the courses with CGPA **6 to 7.4** : First Class
Passed all the courses with CGPA **5.5 to 5.9** : Second Class

The total performance within a semester and continuous performance starting from the first semester are indicated respectively by Grade point Average (GPA) and Cumulative Grade point Average (CGPA). These two are calculated by the following formula.

$$GPA = \frac{\sum_{i} C_{i}G_{i}}{\sum_{i} C_{i}} = \frac{\text{Sum of the product of credits and grade points earned}}{\text{Sum of the credits of the courses in a Semester}}$$

$$CGPA = \frac{\sum_{n} \sum_{i} C_{ni} G_{ni}}{\sum_{n} \sum_{i} C_{ni}}$$

 $= \frac{\text{Sum of the product of the credits and grade points earned}}{\text{Sum of the credits for the entire programme}}$

Where C_i is the credit earned for the course i in any semester, G_i is the grade point obtained by the student for the course i and n is the number of courses passed in that semester.

CGPA is the GPA of all the courses starting from the first semester to the current semester.

15. The Medium of Instruction and Examinations

The medium of instruction and Question Paper shall be in English. The students having arrears in any semesters shall appear for such courses in the next End Semester Examinations.

16. Submission of Record Notebooks for Practical Examinations

Students taking the practical Examinations should submit Bonafide Record Note Books prescribed for the Practical Examinations. Otherwise, the candidates will not be permitted to take the Practical Examinations. However, in genuine cases, where students could not submit the record notebooks may be permitted to take the Practical Examinations provided the Head of the Department and the Course Teacher concerned certify that the candidate has performed the experiments prescribed for the course. For such candidates who do not submit Record Books, zero marks will be awarded for record notebooks in the Practical Examination concerned.

In case a candidate does not secure the prescribed passing minimum in the Practical Examination, the marks awarded for the Record Note Book at the time of first appearance for the Practical Examination should be made available by the Head of the Department concerned.

17. Improvement of Marks in the courses already passed

Students who are desirous of improving the marks secured in a passed course shall reappear in the immediate next End Semester Examination. The improvement in Letter Grade shall be considered for Classification / Distinction. If there is no improvement, there shall not be any change in the original Letter Grade already obtained. The fee for such appearances will be decided by the Governing Body from time to time. The candidate will not be allowed to improve marks in the Practical, Project, Viva-Voce and field works.

18. Self-Supportive Courses

The above Regulations shall apply to candidates undergoing the respective self-supportive courses also.

19. Rank Holders

The students who secure the highest marks in aggregate of all the subjects in the first attempt of the autonomous examinations will be the Rank holders. This applies to all UG & PG programmes of our College. The Rank Holder will be awarded a certificate and prize.

20. MOOC

All the PG Students admitted from the academic year 2023-2024 shall have to complete one MOOC (SWAYAM /NAAN MUDHALVAN/Online Spoken Tutorial by IIT Bombay) of a minimum of 4 weeks

duration as mandatory during the programme as per the norms, to be eligible for obtaining the PG degree.

21. Transitory Provision

Students who have joined the programme from the academic year 2023-24 will be permitted to appear for the examinations under this Regulation for a maximum period of **FOUR** years. Thereafter, they will be permitted to appear for the examinations only under the new Regulations in force. The equivalent paper to be written will be decided by the Chairman of the respective BOS. Such candidates have to reregister for the course. The fee for such re-registration will be decided by the Governing Body from time to time.

22. QUESTION PAPER PATTERN FOR PG PROGRAMMES – 3 HOURS DURATION

Part A	To answer All the 10 MCQs (Two questions from each UNIT)	10 x 1 = 10 Marks			
Part B	To answer All the 5 questions (One question from each UNIT)	5 x 2 = 10 Marks			
Part C	To answer All the 5 questions (either or type) (One question from each UNIT)	5 x 5 = 25 Marks			
Part D	To answer 3 questions (out of 5 questions) (One question from each UNIT)	3 x10 = 30 Marks			
TOTAL 75 Marks					
	(Equal Weightage should be given to each unit)				

Question paper Pattern for Value Based Course: Human Rights
50 MCQs (Answer All Questions) X 1.5 = Total 75 Marks
Online Exam Duration: 2 Hours

ISLAMIAH COLLEGE (AUTONOMOUS) COURSE STRUCTURE FOR PG PROGRAMMES (CBCS PATTERN)

(For Students admitted from 2023 - 2024)

M.A ENGLISH DEGREE PROGRAMME (CBCS PATTERN) PROGRAMME OUTCOMES

- **PO1** Conduct Research independently to bring out new facts and strengthen the existing body of knowledge. Communicate the findings of Research through a well-structured Report.
- **PO2** Demonstrate domain-specific knowledge and its applications in real-life situations.
- **PO3** Synthesise learned knowledge and skills to effectively and efficiently perform the job duties of a profession.
- **PO4** Critically evaluate a situation and suggest a solution after careful consideration of the alternatives.
- **PO5** Exhibit potential to accomplish tasks independently or as a member or leader of a team.
- PO6 Plan and Execute a Project after careful evaluation of the activities involved.
- **PO7** Develop products, Design Policies, and collaborate to help Society build a Sustainable Environment.
- **PO8** Discover a passion for Lifelong Learning through MOOCs, ODL, and Self-learning techniques through the optimum use of ICT.
- PO9 Identify the need and importance of Human Rights, especially for Women, Children, Bonded Labourers, and Refugees.
- **PO10** Exhibit Ethics and Values in professional, Social, and Personal spheres of life, caring for the underprivileged, leading to a better sustainable future

PROGRAMME SPECIFIC OUTCOMES

PSO8	Writes effectiveness of rational inquiry and logical and empirical investigations.
PSO7	Develops the systematic study of literature and methods to analyze
PSO6	Defends why people are complicit with their ideological construction,
PSO5	Connects the language as the study of reasoning and the theory of language.
PSO4	Discovering visual art which is a vexing and complex history.
PSO3	Compare the language's scientific and non-scientific ways of doing things.
PSO2	Explain the systematic approach to the literature and categorize it.
PSO1	Illustrate the connection between modern themes and classical and romantic ideas.

Programme Specific		Programme Outcomes (POs)									
Outcomes (PSOs)	PO1	PO2	РО3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	
PSO1	✓	√	√	√	√	✓	√	√	√	√	
PSO2	✓	✓		✓	✓	✓	✓	✓			
PSO3	√	√	√	√	√	√	√	√	√		
PSO4	✓	√	✓	✓	✓	✓	✓	✓	✓	✓	
PSO5	✓	√	✓								
PSO6	√	√	√	√	√	√	√	✓	✓		
PSO7	√	√	√	√	√	√	√			√	
PSO8	✓	√	✓	✓	√	√	√		✓	✓	
		Number	of Mat	ches = 7	4, Corre	elation:	Very Hi	gh			

MAPPING OF PROGRAMME-SPECIFIC OUTCOMES WITH PROGRAMME OUTCOMES MAPPING CORRELATION BENCHMARK

Mapping	1-30%	31-60%	61-70%	71-100%
Matches	1-24	25-50	51-56	57-80
Correlation	Poor	Moderate	High	Very High

			OURSE STRUCTURE FOR)23-2	024)		
Part	Category	Course Code	Course Title	Hrs./Week	Credit	Exam. Hrs.	CIA	ESE	TOTAL
			SEMESTER I						
	Core Course I	PCENTC11	English Poetry	6	4	3	25	75	100
	Core Course II	PCENTC12	English Drama	6	4	3	25	75	100
	Core Course III	PCENTC13	English Fiction	5	4	3	25	75	100
	Core Course IV	PCENTC14	Women's Writing in English	5	4	3	25	75	100
I	Discipline- Centric Elective I	PCENTE11/ PCENTE12	Indian Writing in English Indian English Poetry	4	2	3	25	75	100
	Generic Elective II	PCENTE13/ PCENTE14	1. Theatre Art 2. Critical Interpretation of R.K. Narayan	4	2	3	25	75	100
			TOTAL	30	20	-	150	450	600
			SEMESTER II						
	Core							l	
	Course V	PCENTC21	American Literature	6	5	3	25	75	100
	Core Course VI	PCENTC22	Shakespeare Studies	6	5	3	25	75	100
	Core Course VII	PCENTC23	Post-Colonial Theory and Literature	6	4	3	25	75	100
I	Discipline Centric Elective III	PCENTE21/ PCENTE22	1. Approaches to English Language Teaching 2. Interpretation of Literature	4	3	3	25	75	100
	Elective IV	PCENTE23/ PCENTE24	1. A Glimpse of Nobel Laureates 2. Modern English Literature	4	3	3	25	75	100
II	Skill Enhancement Course SEC1	PCENTS21	Technology in Teaching English	4	2	3	25	75	100
			TOTAL	30	22	-	150	450	600
			SEMESTER III						
	Core Course VIII	PCENTC31	Contemporary Literary Criticism	6	5	3	25	75	100
	Core Course IX	PCENTC32	Canadian Studies	6	5	3	25	75	100
'	Core Course X	PCENTC33	Literature of the Marginalized in India	6	5	3	25	75	100
	Core	PCENTC34	Film and Media	4	3	3	25	75	100

	Course XI		Studies						
	Discipline Centric Elective V	PCENTE31/ PCENTE32	Translation Studies Technical Writing	4	3	3	25	75	100
II	Skill Enhancement Course SEC2	PCENTS31	Entrepreneurship Development	4	3	3	25	75	100
	Internship [30 Hours]	PCENIM31	Internship / Industrial Activity	-	2	3	25	75	100
			Total	30	26	-	175	525	700
			SEMESTER IN	,					
	Core Course XII	PCENTC41	Twenty-First-Century Millennial Literature and Culture	6	4	3	25	75	100
	Core Course XIII	PCENTC42	Subaltern Studies	6	4	3	25	75	100
I	Elective VI	PCENTE41/ PCENPE42	New Trends of Contemporary Literature Aesthetics in English Literature	5	4	3	25	75	100
	Core Course XIV	PCENJC41	Project with Viva-Voce	6	5	3	25	75	100
II	Skill Enhancement Course SEC3	PCENTS41/ PCENTS42	1. English Literature for NET, SET & GATE 2. Computer Literacy in Teaching	5	3	3	25	75	100
	Value-Based Course [Online Exam]	PCHROM41	Human Rights	2	2	2	25	75	100
III	Extension Activity	PCEXAM41	Extension Activity	-	1	3	25	75	100
	SWAYAM / NAAl eligible for obtain		Online Spoken Tutorial by ee]	IIT Bomb	oay – MC)00[Mandatory	Online Co	urse to be
			Total	30	23	-	175	525	700
			Grand Total	120	91		650	1950	2600

M.A. HISTORY DEGREE PROGRAMME (CBCS PATTERN) (For Students admitted from 2023-2024)

PROGRAMME OUTCOMES

Programme Outcomes (Pos):

PO1: Problem-Solving and Decision-Making Skills

Apply knowledge of Management theories and Human Resource practices to solve business problems through research in a Global context. Foster analytical and critical thinking abilities for data-based decision-making.

PO2: Ethical Value

Ability to incorporate quality, ethical, and legal value-based perspectives to all organizational activities and in conducting one's life.

PO3: Communication Skill

Ability to develop communication, managerial, and interpersonal skills.

PO4: Individual and Team Leadership Skill

Capability to lead themselves and the team to achieve organizational goals.

PO5: Employability Skill

Inculcate contemporary business practices to enhance employability skills in the competitive environment.

PO6: Entrepreneurial Skill

Equip with skills and competencies to become an entrepreneur.

PO7: Contribution to Society

Succeed in career endeavors and contribute significantly to society.

PO8: Multicultural competence

Possess knowledge of the values and beliefs of multiple cultures and a global perspective.

Programme Specific Outcomes (PSOs)

PSO1 – Placement

To prepare the students who will demonstrate respectful engagement with others' ideas, behaviors, and beliefs and apply diverse frames of reference to decisions and actions.

PSO 2 - Entrepreneur

To create effective entrepreneurs by enhancing their critical thinking, problem-solving, decision-making, and leadership skills that will facilitate startups and high-potential organizations.

PSO3 – Research and Development

Design and implement HR systems and practices grounded in research that comply with employment laws, leading the organization towards growth and development.

PSO4 – Contribution to Business World

To produce employable, ethical, and innovative professionals to sustain in the dynamic business world.

PSO 5 – Contribution to the Society

To contribute to the development of society by collaborating with stakeholders for mutual benefit.

MAPPING OF PROGRAMME-SPECIFIC OUTCOMES WITH PROGRAMME OUTCOMES

Programme								
Specific Outcomes (PSOs)	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
PSO1	3	3	3	3	3	3	2	3
PSO2	3	2	3	3	3	3	2	2
PSO3	3	2	3	2	2	2	3	3
PSO4	3	3	3	3	3	3	2	2
PSO5	3	3	2	2	2	2	3	2

(3 – Strong) (2 – Medium) (1 – Low)

		СО	URSE STRUCTURE FOR M.A.	HISTOI	RY				
	(For Students admitted from the academic year 2023-2024)								
Part	Category	Course Code	Course Title	Hrs./We ek	Credit	Exam. Hrs.	CIA	ESE	TOTAL
			SEMESTER I						
	Core Course I	PCHITC11	History of Ancient and Early Medieval India - Prehistory to 1206 Common Era (CE)	6	4	3	25	75	100
	Core Course II	PCHITC12	Socio-Cultural History of Tamil Nadu up to 1565 CE	6	4	3	25	75	100
	Core Course III	PCHITC13	History of World Civilizations (Excluding India)	5	4	3	25	75	100
	Core Course IV	PCHITC14	Muslims' Contribution to Humanity	5	4	3	25	75	100
	Discipline Centric Elective I	PCHITE11/ PCHITE12	Freedom Struggle in Tamil Nadu / Indian Art and Architecture	4	2	3	25	75	100
	Elective II	PCHITE13/ PCHITE14	Administrative History of Tamil Nadu / Cultural Heritage of India	4	2	3	25	75	100
			TOTAL	30	20	-	150	450	600
			SEMESTER II						
	Core Course V	PCHITC21	History of Medieval India - 1206 - 1707 CE	6	5	3	25	75	100
	Core Course VI	PCHITC22	Socio-Cultural History of Tamil Nadu - 1565 - 2000 C.E.	6	5	3	25	75	100
1	Core Course VII	PCHITC23	Historiography and Historical Methods	6	4	3	25	75	100
	Discipline Centric Elective III	PCHITE21/ PCHITE22	History of Journalism / International Migrations and Diasporic Studies	4	3	3	25	75	100
	Elective IV	PCHITE23/ PCHITE24	Indian Constitution / Environmental History of India	4	3	3	25	75	100
II	Skill Enhancement Course SEC1	PCHITS21	Growth of Panchayati Raj Institutions in India(with special reference to Tamil	4	2	3	25	75	100

			Nadu)						
			TOTAL	30	22	-	150	450	600
	SEMESTER III								
	Core Course VIII	PCHITC31	Colonialism and Nationalism in India	6	5	3	25	75	100
	Core Course IX	PCHITC32	Intellectual History of India	6	5	3	25	75	100
ı	Core Course X	PCHITC33	Economic History of India since 1857 CE	6	4	3	25	75	100
	Core Course XI	PCHITC34	Tourism in Tamil Nadu	4	4	3	25	75	100
	Discipline Centric Elective V	PCHITE31/ PCHITE32	Principles and Techniques of Archaeology / Introduction to Sociology	4	3	3	25	75	100
II	Skill Enhancement Course SEC2	PCHITS31	Communication Strategies for Leadership Success	4	3	3	25	75	100
	Internship [30 Hours]	PCHIIM31	Internship / Industrial Activity	-	2	3	25	75	100
			TOTAL	30	26	-	175	525	700
	SEMESTER IV								

			Grand Total	120	91		650	1950	2600
			TOTAL	30	23	-	175	525	700
	SWAYAM / NAAN I eligible for obtainin		Online Spoken Tutorial by IIT Bomb e]	ay – M	100C[N	/landat	ory Onlir	ne Course	to be
Ш	Extension Activity	PCEXAM41	Extension Activity	-	1	3	25	75	100
"	Value-based Course [Online Exam]	PCHROM41	Human Rights	2	2	2	25	75	100
Ш	Skill Enhancement Course SEC3	PCHITS41	Cargo and Logistics	5	3	3	25	75	100
	Elective VI	PCHITE41/ PCHITE42	Women in India through the Ages / Science and Technology in India since 1947 CE	5	4	3	25	75	100
I	Core Course XIV	PCHIJC41	Project with Viva Voce	6	5	3	25	75	100
	Core Course XIII	PCHITC42	Peasant and Labour Movements in India	6	4	3	25	75	100
	Core Course XII	PCHITC41	Contemporary India	6	4	3	25	75	100

M.COM. DEGREE PROGRAMME (CBCS PATTERN) (For Students admitted from Academic Year 2023-2024) PROGRAMME OUTCOMES

PO1: Problem-Solving Skill: Apply knowledge of Management theories and Human Resource practices to solve business problems through research in a Global context.

PO2: Decision-Making Skill: Foster analytical and critical thinking abilities for data-based decision-making.

PO3: Ethical Value: Ability to incorporate quality, ethical, and legal value-based perspectives to all organizational activities.

PO4: Communication Skill: Ability to develop communication, managerial, and interpersonal skills.

PO5: Individual and Team Leadership Skill: Capability to lead themselves and the team to achieve organizational goals.

PO6: Employability Skill: Inculcate contemporary business practices to enhance employability skills in the competitive environment.

PO7: Entrepreneurial Skill: Equip with skills and competencies to become an entrepreneur.

PO8: Contribution to Society: Succeed in career endeavors and contribute significantly to society.

PO 9: Multicultural competence: Possess knowledge of the values and beliefs of multiple cultures and a global perspective.

PO 10: Moral and ethical awareness/reasoning: Ability to embrace moral/ethical values in conducting one's life.

	COURSE STRUCTURE FOR M.COM. (For Students admitted from 2023-2024)								
Part	Category	Course Code	e Course Title	Hrs./Week	Credit	Exam. Hrs.	CIA	ESE	TOTAL
	SEMESTER I								
	Core Course I	PCCOTC11	Business Finance	6	4	3	25	75	100
	Core Course II	PCCOTC12	Digital Marketing	6	4	3	25	75	100
	Core Course III	PCCOTC13	Banking and Insurance	5	4	3	25	75	100
	Core Course IV	PECCOLCIA	Accounting for Managerial Decisions	5	4	3	25	75	100
	Discipline Centric Elective I	PCCOTE11/	Security Analysis and Portfolio Management/ Operations Research	4	2	3	25	75	100
	Elective II	PCCOTE13/	Strategic Human Resource Management /Labour Laws	4	2	3	25	75	100
			TOTAL	30	20	-	150	450	600

			SEMESTER II						
	Core Course IV	PCCOTC21	Strategic Cost Management	6	5	3	25	75	100
	Core Course V	PCCOTC22	Corporate Accounting	6	5	3	25	75	100
	Core Course VI	PCCOTC23	Setting up of Business Entities	6	4	3	25	75	100
I	Discipline Centric Elective III	PCCOTE21/ PCCOTE22	Business Ethics and Corporate Sustainability/ Audit and Due Diligence	4	3	3	25	75	100
	Elective IV	PCCOTE23/ PCCOTE24	Rural and Agricultural Marketing/ Logistics and Supply Chain Management	4	3	3	25	75	100
II	Skill Enhancement Course SEC1	PCCOTS21	Advanced Business Statistics	4	2	3	25	75	100
			TOTAL	30	22	-	150	450	600
			SEMESTER III				L	L	
	Core Course VII	PCCOTC31	Taxation	6	5	3	25	75	100
	Core Course VIII	PCCOTC32	Research Methodology	6	5	3	25	75	100
ı	Core Course IX	РССОТС33	Computer Applications in Business	6	4	3	25	75	100
	Core Course X	PCCOTC34	International Business	4	4	3	25	75	100
	Discipline Centric Elective V	PCCOTE31/ PCCOTE32	Strategic Management/ International Financial Management	4	3	3	25	75	100
II	Skill Enhancement Course SEC2	PCCOTS31	Operations Management	4	3	3	25	75	100
11	Internship	PCCOIM31	Internship / Industrial Activity	-	2	3	25	75	100
			TOTAL	30	26	-	175	525	700
	Ī	T	SEMESTER IV		ı	ı	1	1	
	Core Course XI	PCCOTC41	Corporate and Economic Laws	6	4	3	25	75	100
	Core Course XII	PCCOTC42	Human Resource Analytics	6	4	3	25	75	100
T	Core Course XIII	PCCOJC41	Project with Viva Voce	6	5	3	25	75	100
	Elective VI	PCCOTE41/ PCCOTE42	Organisational Behaviour/ Insolvency Law and Practice/Project Management	5	4	3	25	75	100
II	Value-Based Course [Online Exam]	PCHROM41	Human Rights	2	2	2	25	75	100
	Skill Enhancement Course SEC3	PCCOTS41	Business Analytics	5	3	3	25	75	100
III	Extension Activity SWAYAM / NAAN N be eligible for obtai		Extension Activity Online Spoken Tutorial by IIT gree]	- Bombay	1 - MOC	3 C[Mar	25 ndatory C	75 Inline Cou	100 urse to
			TOTAL	30	23	-	175	525	700
			Grand Total	120	91		650	1950	2600
	_	_		_					

M.Sc. DEGREE PROGRAMMES (CBCS PATTERN)

(For Students admitted from 2023-2024)

PROGRAMME OUTCOMES FOR MATHEMATICS, PHYSICS & CHEMISTRY

- **PO1** Problem-Solving Skill: Apply knowledge of Management theories and Human Resource practices to solve business problems through research in a Global context.
- PO2 Decision-Making Skill Foster analytical and critical thinking abilities for data-based decision-making.
- **PO3** Ethical Value: Ability to incorporate quality, ethical, and legal value-based perspectives to all organizational activities.
- **PO4** Communication Skill: Ability to develop communication, managerial, and interpersonal skills.
- **PO5** Individual and Team Leadership Skills Capability to lead themselves and the team to achieve organizational goals.
- **PO6** Employability Skill Inculcate contemporary business practices to enhance employability skills in a competitive environment.
- **PO7** Entrepreneurial Skill: Equip yourself with the skills and competencies to become an entrepreneur.
- **PO8** Contribution to Society: Succeeds in career endeavors and contributes significantly to society.
- **PO9** Multicultural competence: Possess knowledge of the values and beliefs of multiple cultures and a global perspective.
- **PO10** Moral and ethical awareness/reasoning Ability to embrace moral/ethical values in conducting one's life.

M.Sc. MATHEMATICS DEGREE PROGRAMMES (CBCS PATTERN)

PROGRAM SPECIFIC OUTCOMES (PSOs)

By the end of the program, the students will be able to

PSO1	Placement To prepare the students who will demonstrate respectful engagement with others' ideas, behaviors, and beliefs and apply diverse frames of reference to decisions and
PSO2	Entrepreneur To create effective entrepreneurs by enhancing their critical thinking, problem-solving,
PSO3	Research and Development Design and implement HR systems and practices grounded in research that complies
PSO4	Contribution to Business World To produce employable, ethical and innovative professionals to sustain in the dynamic
PSO5	Contribution to the Society To contribute to the development of society by collaborating with stakeholders for mutual benefit.

PROGRAM SPECIFIC OUTCOMES (PSOs)

By the end of the program, the students will be able to

PSO1	Understand in-depth knowledge of pure and applied mathematics.
PSO2	Attain the ability to solve challenging problems in Mathematics and prove the
	abstract theorem.
PSO3	Know the specialized area of mathematics and its applications.
PSO4	Analyse practical problems and propose a solution.
PSO5	Obtain the exact solutions for society-oriented problems by mathematical models.
PSO6	Discuss in groups or individually in multidisciplinary tasks. Solution.
PSO7	Crack the NET / SET examination conducted by UGC-CSIR / NTA or State Universities.
PSO8	Apply the mathematical concepts in real-life situations.

MAPPING OF PROGRAMME-SPECIFIC OUTCOMES WITH PROGRAMME OUTCOMES

Programme Specific	riogramme Outcomes (ros)										
Outcomes (PSOs)	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	
PSO1	✓	✓	✓				✓	✓	✓		
PSO2		✓	✓	✓	✓	✓	✓				
PSO3	✓	✓		✓	✓	✓		✓	✓		
PSO4	✓	✓		✓	✓		✓	✓	✓		
PSO5		✓	✓	✓	✓				✓	✓	
PSO6	✓	✓		✓	✓	✓		✓	✓		
PSO7		✓	✓		✓	✓	✓	✓			
PSO8		✓	✓			✓	✓	✓	✓	✓	
	Number of Matches = 52, Correlation: High										

Mapping Correlation Benchmark

Mapping	1-29%	30-59%	60-69%	70-100%
Matches	1-24	25-50	51-56	57-80
Correlation	Poor	Moderate	High	Very High

			STRUCTURE FOR M.S									
Part	Category	Course Code	Course Title	Hrs./Week	Credit	Exam. Hrs.	CIA	ESE	TOTAL			
			SEMESTE	RI	•							
	Core Course I	PCMSTC11	Algebraic Structures	6	4	3	25	75	100			
	Core Course II	PCMSTC12	Real Analysis I	6	4	3	25	75	100			
	Core Course III	PCMSTC13	Ordinary Differential Equations	5	4	3	25	75	100			
	Core Course IV	PCMSTC14	Classical Dynamics	5	4	3	25	75	100			
1	Flective L(To	PCMSTE11/ PCMSTE12	Number theory and Cryptography/ Advanced Graph Theory	4	2	3	25	75	100			
	Elective II (To choose 1 out of 2)	PCMSTE13/ PCMSTE14	Mathematical Programming/ Discrete Mathematics	4	2	3	25	75	100			
			TOTAL	30	20	-	150	450	600			
	SEMESTER II											
	Core Course IV	PCMSTC21	Advanced Algebra	6	5	3	25	75	100			
	Core Course V	PCMSTC22	Real Analysis II	6	5	3	25	75	100			
	Core Course VI	PCMSTC23	Partial Differential Equations	6	4	3	25	75	100			
ı	Discipline Centric Elective III (To choose 1 out of 2)	PCMSTE21/ PCMSTE22	Mathematical Statistics/ Algebraic Number Theory	4	3	3	25	75	100			
	Elective IV (To choose 1 out of 2)	PCMSPE23/ PCMSTE24	Modeling and Simulation with Excel - Lab /Advanced Numerical Analysis	4	3	3	25	75	100			
II	Skill Enhancement Course I [NME I]	PCMSPS21	Mathematical Documentation using Latex - Lab	4	2	3	25	75	100			
	TOTAL 30 22 - 150 450 600											
			SEMESTER III									
	Core Course VII	PCMSTC31	Complex Analysis	6	5	3	25	75	100			
ı	Core	PCMSTC32	Probability Theory	6	5	3	25	75	100			

	Course VIII										
	Core Course IX	PCMSTC33	Topology	6	4	3	25	75	100		
	Core Course X	PCMSTC34	Industry Modules	4	4	3	25	75	100		
	Discipline Centric Elective V (To choose 1 out of 2)	PCMSTE31 PCMSTE32	Mathematical Python/ Fluid Dynamics	4	3	3	25	75	100		
II	Skill Enhancement Course II [NME II]	PCMSTS31	Advanced Integral Equations	4	3	3	25	75	100		
"	Internship	PCMSIM31	Internship / Industrial Activity	-	2	3	25	75	100		
			TOTAL	30	26	-	175	525	700		
SEMESTER IV											
	Core Course XI	PCMSTC41	Functional Analysis	6	4	3	25	75	100		
	Core Course XII	PCMSTC42	Differential Geometry	6	4	3	25	75	100		
I	Elective VI (To choose 1 out of 2)	PCMSTE41/ PCMSPE42	Advanced Complex Analysis / Stochastic Processes	5	4	3	25	75	100		
	Core Course XIII	PCMSJC41	Project with viva voce	6	5	3	25	75	100		
	Skill Enhancement Course III	PCMSTS41	Calculus of Variations	5	3	3	25	75	100		
II	Value-Based Course [Online Exam]	PCHROM41	Human Rights	2	2	2	25	75	100		
Ш	Extension Activity	PCEXAM41	Extension Activity	-	1	3	25	75	100		
	SWAYAM / NAAN be eligible for obta		nline Spoken Tutorial b	y IIT Bon	nbay –	MOOC	[Mandato	ry Online	Course to		
	be engible for obta	mining the FO degi	Total	30	23	-	75	525	700		
			GRAND TOTAL	120	91	-	650	1950	2600		

M.Sc. PHYSICS DEGREE PROGRAMMES (CBCS PATTERN) PROGRAM SPECIFIC OUTCOMES (PSOs)

PROGRAM SPECIFIC OUTCOMES (PSOs):

By the end of the program, the students will be able to

PSO1 Understand principles of physics for the scientific phenomena in the classical domain.

PSO2 Understand the mathematical techniques for describing in-depth knowledge of physical concepts.

PSO3 Understand and apply statistical methods for describing the classical and quantum particles in various physical systems and processes.

PSO4 Understand and apply interdisciplinary concepts for understanding and describing natural Phenomena.

PSO5 Understand the principles of Quantum mechanics for knowing the physical systems in the Quantum arena.

PSO6 Provides exposure to various specializations of Physics (Solid State Physics/Nuclear Physics/Particle Physics).

PSO7 Provides exposure to modern experimental/theoretical methods for measurement, observation, and fundamental understanding of physical phenomena/systems. PSO8 Engage in research and life-long learning to adapt to changing environment

MAPPING OF PROGRAMME-SPECIFIC OUTCOMES WITH PROGRAMME OUTCOMES

Programme				Progra	amme C	utcom	es (POs	s)		
Specific										
Outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
(PSOs)										
PSO1	✓	✓		\checkmark		✓	✓	✓	✓	✓
PSO2	✓	✓	✓	✓		✓	✓		✓	✓
PSO3	✓	✓	✓	✓			✓	✓	✓	✓
PSO4	✓	✓		✓	✓		✓	✓	✓	✓
PSO5	✓	✓		✓		✓	✓	✓	✓	✓
PSO6	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
PSO7	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
PSO8	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Mapping Correlation Benchmark

Mapping	1-29%	30-59%	60-69%	70-100%
Matches	1-24	25-50	51-56	57-80
Correlation	Poor	Moderate	High	Very High
Matching: 70	Correlation: Very	High		

			RSE STRUCTURE FOR M						
Part	Category	Course Code	Course Title	Hrs./Week	Credit	Exam. Hrs.	CIA	ESE	TOTAL
			SEMESTER I		<u> </u>			T	
	Core Course I	PCPYTC11	Mathematical Physics	6	4	3	25	75	100
	Core Course II	PCPYTC12	Classical Mechanics and Relativity	5	4	3	25	75	100
	Core Course III	PCPYTC13	Linear and Digital ICs and Applications	5	4	3	25	75	100
ı	Core Course IV	PCPYPC14	General Physics Practical I	6	4	3	25	75	100
	Discipline-Centric Elective I	PCPYTE11/ PCPYTE12	Physics of Nano Science and Technology/ Astrophysics	4	2	3	25	75	100
	Elective II	PCPYTE13/ PCPYTE14	Material Science/Non- linear Dynamics	4	2	3	25	75	100
			TOTAL	30	20	-	150	450	600
			SEMESTER II		T -			T =-	465
	Core Course V	PCPYTC21 PCPYTC22	Statistical Mechanics	6	5 5	3	25	75	100
	Core Course VI	PCPYTCZZ	Quantum Mechanics I General Physics	ь	5	3	25	75	100
	Core Course VII	PCPYPC23	Practical II	6	4	3	25	75	100
I	Discipline Centric Elective II	PCPYTE21/ PCPYTE22	General Relativity and Cosmology/Crystal Growth and Thin films	4	3	3	25	75	100
	Elective IV	PCPYTE23/ PCPYTE24	Plasma Physics/Advanced Optics	4	3	3	25	75	100
II	Skill Enhancement Course SEC 1 [NME I]	PCPYTS21	Solid Waste Management	4	2	3	25	75	100
			TOTAL	30	22	-	150	450	600
		1	SEMESTER III						
	Core Course VIII	PCPYTC31	Quantum Mechanics II	6	5	3	25	75	100
	Core Course IX	PCPYTC32	Condensed Matter Physics	6	5	3	25	75	100
	Core Course X	PCPYTC33	Electromagnetic Theory	6	4	3	25	75	100
I	Core Course XI	PCPYPC34	Numerical Methods and Computer Programming using FORTRAN & C Practical	4	4	3	25	75	100
	Discipline-Centric Elective V	PCPYTE31/ PCPYTE32	Communication Electronics/Microproce ssor 8086 and Microcontroller 8051	4	3	3	25	75	100
II	Skill Enhancement Course SEC2 [NME	PCPYTS31	Medical Physics	4	3	3	25	75	100
••	II]				<u> </u>				

			Activity								
			TOTAL	30	26	-	175	525	700		
	SEMESTER IV										
	Core Course XII	PCPYTC41	Nuclear and particle Physics	6	4	3	25	75	100		
	Core Course XII	PCPYTC42	Spectroscopy	6	4	3	25	75	100		
1	Core Course XIV	PCPYJC41	Project with Viva-Voce	5	5	3	25	75	100		
	Elective VI	PCPYPE41	Microprocessor 8086 and Microcontroller 8051 Practical	5	4	3	25	75	100		
	Skill Enhancement Course III	PCPYTS41	Characterization of Materials	6	3	3	25	75	100		
II	Value-Based Course [Online Exam]	PCHROM41	Human Rights	2	2	2	25	75	100		
Ш	Extension Activity	PCEXAM41	Extension Activity	-	1	3	25	75	100		
	SWAYAM / NAAN N	/UDHALVAN/On	line Spoken Tutorial by IIT	Bombay -	MOOC[Man	datory O	nline Cours	se to be		
	eligible for obtaining the PG degree]										
			Total	30	23	-	175	525	700		
			Grand Total	120	91		650	1950	2600		

M.Sc. CHEMISTRY DEGREE PROGRAMMES (CBCS PATTERN) PROGRAM SPECIFIC OUTCOMES (PSOs)

Programme Specific Outcomes (PSOs)

PSO1 – Placement

To prepare the students who will demonstrate respectful engagement with others' ideas, behaviors, and beliefs and apply diverse frames of reference to decisions and actions.

PSO 2 - Entrepreneur

To create effective entrepreneurs by enhancing their critical thinking, problem-solving, decision-making, and leadership skill that will facilitate startups and high-potential organizations.

PSO3 – Research and Development

Design and implement HR systems and practices grounded in research that comply with employment laws, leading the organization towards growth and development.

PSO4 - Contribution to Business World

To produce employable, ethical, and innovative professionals to sustain in the dynamic business world.

PSO 5 – Contribution to the Society

To contribute to the development of society by collaborating with stakeholders for mutual benefit.

PROGRAMME SPECIFIC OUTCOMES (PSO) On completion of the M.Sc Chemistry Programme,

By the end of the program, the students will be able to

Orient the skill and knowledge in Computation and its applications in chemistry and handle the suitable software for the subject and correlate it with experimental data.
Apply the multi-dimensional aspects of chemistry and its applications in Material science,
Molecular modelling, Drug discovery and Process Development.
Utilize the basic knowledge of structure, reactivity, characterization and applications of
chemicals in the development of novel chemical compounds.
Handle the instruments employed in maintaining the quality and control of chemicals in the
manufacturing process.
Extract, elucidate the structure and synthesize natural products from the available sources
Apply the knowledge of reactions and mechanisms in the synthesis of new chemicals, their
analysis and applications.
Carry out any kind of project in quality control, research and process development in the
chemical industry, enhancing the job opportunities of the students.
Communicate and work collaboratively with Technologists and Environmentalists leading to
sustainable living.

MAPPING OF PROGRAMME-SPECIFIC OUTCOMES WITH PROGRAMME OUTCOMES

Program-	Progra	m Outco	mes (PC)s)						
Specific										
Outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
(PSOs)										
PSO1	✓	√	✓	✓	✓	✓	✓	✓		
PSO2	✓	✓	✓	✓	✓	✓	✓	✓		
PSO3	✓	✓	✓	✓	✓	✓	✓			
PSO4	✓	✓	✓	✓	✓	✓	✓			
PSO5	✓	✓	✓	✓	✓	✓	✓	✓		
PSO6	✓	✓	✓	✓	✓	✓	✓	✓		
PSO7	✓	✓	✓	✓	✓	✓	✓			✓
PSO8	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Number of m	atches =	64, Cor	relation:	Very Hig	gh	•	•	•	-	•

Mapping Correlation Benchmark

Mapping	1-30%	31-60%	61-70%	71-100%
Matches	1-24	25-50	51-56	57-80
Correlation	Poor	Moderate	High	Very High

			IRSE STRUCTURE FOR M		_	Υ					
	(For Students admitted from 2023-2024) Course Title										
Part	Category	Course Code	Course Title	Hrs./Wee k	Credit	Exam. Hrs.	CIA	ESE	TOTAL		
			SEMESTER I			,					
	Core Course I	PCCHTC11	Organic Reaction Mechanism-I	6	4	3	25	75	100		
	Core Course II	PCCHTC12	Structure and Bonding in Inorganic Compounds	6	4	3	25	75	100		
	Core Course III	PCCHPC13	Practical: Organic Chemistry - I	5	4	3	25	75	100		
ı	Core Course IV	PCCHPC14	Practical: Physical Chemistry - I	5	4	3	25	75	100		
	Discipline Centric Elective I	PCCHTE11/ PCCHTE12	Pharmaceutical Chemistry/ Nanomaterials and Nanotechnology	4	2	3	25	75	100		
	Elective II PCCHTE13/Ph.Ph		Molecular Spectroscopy / Pharmacognosy and Phytochemistry	4	2	3	25	75	100		
	TOTAL			30	20	-	150	450	600		
SEMESTER											
	Core Course IV	PCCHTC21	Organic reaction mechanism-II	6	5	3	25	75	100		
	Core Course V	PCCHTC22	Physical Chemistry-I	6	5	3	25	75	100		
	Core Course VI	PCCHPC23	Practical: Inorganic Chemistry - I	6	4	3	25	75	100		
ı	Discipline Centric Elective III	PCCHTE21/ PCCHTE22	Medicinal Chemistry/Green Chemistry	4	3	3	25	75	100		
	Elective IV	PCCHTE23/ PCCHTE24	Bio-Inorganic Chemistry/Material Science	4	3	3	25	75	100		
II	Skill Enhancement Course SEC1 [NME I]	PCCHTS21	Computational Chemistry	4	2	3	25	75	100		
			TOTAL	30	22	-	150	450	600		
			SEMESTER III								
	Core Course VII	PCCHTC31	Organic synthesis and Photochemistry	6	5	3	25	75	100		
	Core Course VIII	PCCHTC32	Coordination Chemistry-I	6	5	3	25	75	100		
ı	Core Course IX	PCCHPC33	Practical: Inorganic Chemistry - II	5	4	3	25	75	100		
	Core Course X	PCCHPC34	Practical: Organic Chemistry - II	5	4	3	25	75	100		
	Discipline-Centric Elective V	PCCHTE31/ PCCHTE32	Electrochemistry / Biomolecules and Heterocyclic compounds	4	3	3	25	75	100		

	Skill Enhancement Course SEC2 [NME II]	PCCHTS31	Professional Communication Skill	4	3	3	25	75	100
II	Internship (Carried out in Summer Vacation at the end of I year – 30 hours)	PCCHIM31	Internship / Industrial Activity	-	2	3	25	75	100
			TOTAL	30	26	-	175	525	700
			SEMESTER IV						
	Core Course XI	PCCHTC41	Coordination Chemistry-II	6	4	3	25	75	100
	Core Course XII	PCCHTC42	Physical Chemistry-II	6	4	3	25	75	100
ı	Elective VI	PCCHPE41/ PCCHPE42	Practical: Analytical instrumentation techniques / Practical: Domestic Products preparation and testing	6	4	3	25	75	100
	Core Course XIII	PCCHJC41	Project with viva voce	6	5	3	25	75	100
	Skill Enhancement Course SEC3	PCCHTS41	Professional Competency Skill Enhancement	4	3	3	25	75	100
II	Value-Based Course [Online Exam]	PCHROM41	Human Rights	2	2	2	25	75	100
III	Extension Activity	PCEXAM41	Extension Activity	-	1	3	25	75	100
	SWAYAM / NAAN N eligible for obtaining	-	nline Spoken Tutorial by IIT]	Bombay -	- MOOC[Manda	tory Onli	ne Course	to be
			Total	30	23	-	175	525	700
			Grand Total	120	91	-	650	1950	2600

M.SC. DEGREE PROGRAMMES PROGRAMME OUTCOMES FOR BIOCHEMISTRY & BIOTECHNOLOGY PROGRAMME OUTCOMES:

PO1. To make students understand the importance of biochemistry as a subject that deals with life processes, as well as the concepts, theories, and experimental approaches followed in

Biochemistry, in order to pursue a research career, either in an industry or academic setting.

- PO2. To develop analytical and problem-solving skills
- PO3. To create an awareness among the students of the interconnection between the Interdisciplinary areas of biochemistry.
- PO4. To give the necessary practical skills required for biochemical techniques and analysis.
- PO5. To develop communication and writing skills in students.
- PO6. To develop leadership and teamwork skills
- PO7. To emphasize the importance of good academic and work ethics and their social Implications.
- PO8. To emphasize the importance of continuous learning and to promote lifelong learning and career development.
- PO9. To teach students how to retrieve information from a variety of sources, including Libraries, databases, and the internet.
- PO10. To teach students to identify, design, and execute a research problem, and Interpret data and learn time and resource management.

On successful completion of this course, students should be able to: PROGRAM-SPECIFIC OUTCOME FOR MASTER OF BIOCHEMISTRY

Knowledge Domain

- PSO1. Outline the structure and metabolism of macromolecule and its regulation and disorders of metabolic pathways.
- PSO2. Acquire knowledge of the molecular machinery of living cells and their participation in molecular recognition.
- POS3. Acquire in-depth knowledge of Biochemistry, Microbiology, Plant Biochemistry, cell biology, toxicology, physiology, ecology, and stem cells.
- POS4. Differentiate the principle, instrumentation, and applications of different analytical techniques used in biochemistry, microbiology, biotechnology, Immunology, and molecular biology and apply the scientific methods in the research investigation and hypothesis testing.

Skill Domain

POS5. Measure and identify the concentration of analytes in the given sample by using biochemical, microbiological, and molecular techniques and demonstrate independent and

critical skills necessary to formulate specific experiments and obtain reproducible data.

POS6. Make use of modern library research tools and software to locate and retrieve scientific information about techniques, bioinformatics, biostatics, genomics, and proteomics.

POS7. Develop effective communication skills (oral and written) to represent the results of the experimental work and research to pursue a career in academic and different life science industries (Pharmaceuticals, Biotech, research, Hospital, and community services). Acquire lifelong self-learning habits through online courses and the ability to plan and manage projects to achieve the objective.

Value domain

POS8. Contribute to solving environmental issues and sustainable development and enhance personal integrity, human rights, women, children, and labor rights, and ethical behavior when dealing with patients, Community members, and the healthcare team.

Mapping PO Vs PSO

PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
PSO1	✓	✓	✓	✓						
PSO2	✓	✓	✓		✓					
PSO3	✓	✓	✓		✓				✓	✓
PSO4	✓	✓				✓		✓	✓	✓
PSO5	✓	✓		✓	✓	✓		✓	✓	✓
PSO6	✓	✓	✓	✓	✓	✓	✓		✓	✓
PSO7	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
PSO8						✓	✓	✓	✓	✓

Mapping Correlation Benchmark

Mapping	1-30%	31-60%	61-70%	71-100%
Matches	1-24	25-50	51-56	57-80
Correlation	Poor	Moderate	High	Very High

	COURSE STRUCTURE FOR M.Sc. BIOCHEMISTRY (For the candidates admitted from the academic year 2023-2024)										
Part	Category	Course Code	Course Title	Hrs./Week	Credit	Exam. Hrs.	CIA	ESE	TOTAL		
			SEMESTER I								
	Core Course I	PCBITC11	Basics of Biochemistry	6	4	3	25	75	100		
	Core Course II	PCBITC12	Biochemical and Molecular Biology Techniques	6	4	3	25	75	100		
	Core Course III	PCBITC13	Physiology and Cell Biology	5	4	3	25	75	100		
ı	Core Course IV	PCBIPC14	Biomolecules and Biochemical Techniques Practical	5	4	3	25	75	100		
	Discipline- Centric Elective I	PCBITE11/ PCBITE12	Microbiology & Immunology/Plant Biochemistry	4	2	3	25	75	100		
	Generic PCBITE13/ Elective II PCBITE14		Food Processing and Technology/ Developmental Biology	4	2	3	25	75	100		
	TOTAL		30	20	-	150	450	600			
		SEMESTER II									
	Core Course IV	PCBITC21	Enzymology	6	5	3	25	75	100		
	Core Course V	PCBITC22	Cellular Metabolism	6	5	3	25	75	100		
	Core Course VI	PCBIPC23	Enzymology, Microbiology and Cell Biology – Practical	5	4	3	25	75	100		
I	Discipline Centric Elective II	PCBITE21/ PCBITE22	Energy and drug metabolism/Ecology Evolution and Biodiversity	4	3	3	25	75	100		
	Generic Elective II	PCBITE23/ PCBITE24	Nutritional Biochemistry/Molecula r Endocrinology	4	3	3	25	75	100		
II	Skill Enhancement Course SEC1 [NME I]	PCBITS21	Industrial Microbiology	5	2	3	25	75	100		
			TOTAL	30	22	-	150	450	600		
			SEMESTER III		ı						
	Core Course VII	PCBITC31	Clinical Biochemistry	6	5	3	25	75	100		
	Core Course VIII	PCBITC32	Molecular Biology	6	5	3	25	75	100		
ı	Core Course IX	PCBITC33	Gene Editing, Cell and Gene therapy	5	4	3	25	75	100		
	Core Course X	PCBIPC34	Clinical Biochemistry Practical	5	4	3	25	75	100		
	Discipline Centric	PCBITE31/ PCBITE32	Molecular basis of disease and therapeutic	4	3	3	25	75	100		

	Elective III		strategies/Cancer Biology							
II	Skill Enhancement Course SEC2 [NME II]	PCBITS31	Biostatistics and Data Science	4	3	3	25	75	100	
	Internship Industrial Visit – Biotech	PCBIIM31	Internship	-	2	3	25	75	100	
			TOTAL	30	26	-	175	525	700	
			SEMESTER IV	1		•				
	Core Course XI	PCBITC41	Pharmaceutical Biochemistry	6	4	3	25	75	100	
	Core Course XIII	PCBIPC42	Molecular Biology and Immunology Practical	6	4	3	25	75	100	
ı	Core Course XIV	PCBIJC41	Project with Viva-Voce	6	5	3	25	75	100	
	Generic Elective VI	PCBITE41/ PCBITE42	Biochemical Toxicology /Bio-safety, Lab Safety and IPR	6	4	3	25	75	100	
II	Skill Enhancement Course SEC3	PCBITS41	Quantitative Aptitude for Competitive Exam in Biochemistry	4	3	3	25	75	100	
"	Value Based Course {Online Exam}	PCHROM41	Human Rights	2	2	2	25	75	100	
Ш	Extension Activity Industrial Visit - Pharma or Food Processing	PCEXAM41	Extension Activity	-	1	3	25	75	100	
	SWAYAM / NAAN MUDHALVAN/Online Spoken Tutorial by IIT Bombay – MOOC[Mandatory Online Course to be eligible for obtaining the PG degree]									
			Total	30	23	-	175	525	700	
			Grand Total	120	91		650	1950	2600	

PROGRAMME SPECIFIC OUTCOMES (PSOS) FOR M.Sc. BIOTECHNOLOGY Upon completion of the M.Sc. Biotechnology Programme, the students will be able to:

PSO 1: Evolve with recent innovations and scientific updates in various thrust areas of biotechnology by the best scientific temperament and professional and research ethics throughout life.

PSO 2: Apply broad multidisciplinary knowledge and transferable skills in biotechnology and related subjects suitable for employment in the pharmaceutical and biotechnology industry, government research institutes or other agencies.

PSO3: Contribute to innovative thinking, scientific approach, and problem-solving skills for various health, environmental, cultural and social issues through scientific knowledge.

PSO 4: Recognize ethical issues in connection with recombinant DNA technology, gene cloning, animal manipulation, IPR, biosecurity and the management of sensitive experiments.

PSO 5: Discriminate data beautification and data manipulation / scientific misconduct.

PSO 6: Make use of ICT to carry out and deliver the research works and assignments independently and with a team of students across disciplines.

PSO 7: Practice research & professional ethics as well as the responsibility of SOPs.

PSO8: Evolve with recent innovations and scientific updates in the technological era following the best scientific temperament and professional and research ethics throughout life.

MAPPING OF PROGRAMME SPECIFIC OUTCOMES (M.Sc.) WITH PROGRAMME OUTCOMES

Programme				Progran	nme Ou	itcomes	(PO)			
Specific										
Outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
(PSOs)										
PSO1	٧	٧	٧		٧	٧	٧	٧	٧	٧
PSO2	٧	٧	٧	٧	٧		٧			
PSO3	٧	٧	٧	٧	٧	٧	٧		٧	٧
PSO4	٧	٧		٧		٧		٧	٧	٧
PSO5	٧		٧	٧	٧	٧		٧		
PSO6	٧		٧		٧	٧	٧	٧		
PSO7			٧	٧			٧		٧	٧
PSO8	٧	٧			٧		٧		٧	٧
Number of ma	tches = 54	, Correla	ation: H	igh	•	•	•	•	•	

MAPPING CORRELATION BENCHMARK

Mapping	1-30%	31-60%	61-70%	71-100%
Matches	1-24	25-50	51-56	57-80
Correlation	Poor	Moderate	High	Very High

	COURSE STRUCTURE FOR M.Sc. BIOTECHNOLOGY (For Students admitted from the academic year 2023-2024)										
Part	Category	Course Code	Course Title	Hrs./Week	Credit	Exam. Hrs.	CIA	ESE	TOTAL		
			SEMESTER I								
	Core Course I	PCBTTC11	Biochemistry	6	4	3	25	75	100		
	Core Course II	PCBTTC12	Molecular Genetics	6	4	3	25	75	100		
	Core Course III	PCBTTC13	Molecular Cell Biology	5	4	3	25	75	100		
ı	Core Course IV	PCBTPC11	Practical I – Biochemistry, Molecular Genetics and Molecular Cell Biology	5	4	3	25	75	100		
	Discipline Centric Elective I	PCBTTE11/ PCBTTE12	Bioinstrumentation / Human Physiology	4	2	3	25	75	100		
	Elective II	PCBTTE13/ PCBTTE14	Enzymology/ Cancer Biology	4	2	3	25	75	100		
			TOTAL	30	20	-	150	450	600		
			SEMESTER II								
	Core Course V	PCBTTC21	Microbiology	6	5	3	25	75	100		
	Core Course VI	PCBTTC22	Plant and Animal Biotechnology	6	5	3	25	75	100		
1	Core Course VII	PCBTPC21/ PCBTPC22/	Genetic Engineering OR Practical II: Microbiology, Plant & Animal Biotechnology and Genetic Engineering	6	4	3	25	75	100		
	Discipline Centric Elective III	PCBTTE21/ PCBTTE22	Regulatory affairs and Industrial standards /Pharmaceutical Biotechnology	4	3	3	25	75	100		
	Elective IV	PCBTTE23/ PCBTTE24	Environmental Biotechnology/ Medical Biotechnology	4	3	3	25	75	100		
II	Skill Enhancement Course I [NME I]	PCBTTS21	Tissue Engineering	4	2	3	25	75	100		
			TOTAL	30	22	-	150	450	600		
	Cana	1	SEMESTER III					l			
	Core Course VIII	PCBTTC31	Bioinformatics	6	5	3	25	75	100		
	Core Course IX	PCBTTC32	Immunology	6	5	3	25	75	100		
ı	Core Course X	PCBTTC33	Bioprocess Technology	6	4	3	25	75	100		
	Core Course XI	PCBTPC31	Practical III: Bioinformatics, Immunology and Bioprocess Technology	4	4	3	25	75	100		
	Discipline Centric	PCBTTE31/	Nano Biotechnology /	4	3	3	25	75	100		

	Elective V	PCBTTE32	Molecular Developmental Biology						
II	Skill Enhancement Course II [NME II]	PCBTTS31	Gene manipulation Technology	4	3	3	25	75	100
	Internship	PCBTIM31	Internship / Industrial Activity	-	2	3	25	75	100
			TOTAL	30	26	-	175	525	700
			SEMESTER IV						
	Core Course XII	PCBTTC41	Biostatistics	6	4	3	25	75	100
ı	Core Course XIII	PCBTTC41/ PCBTPC42	Ecology, Evolution and Biodiversity / Research Methodology and Biostatistics Practical	6	4	3	25	75	100
	Core Course XIV	PCBTJC41	Project with Viva-voce	6	5	3	25	75	100
	Elective VI	PCBTTE41/ PCBTTE42	Stem Cell Biology (or) Bioethics, Human Rights and Social Issues	5	4	3	25	75	100
	Skill Enhancement Course III	PCBTTS41	Bio fertilizer technology	5	3	3	25	75	100
II	Value Based Course [Online Exam]	PCHROM41	Human Rights	2	2	2	25	75	100
III	Extension Activity	PCEXAM41	Extension Activity	-	1	3	25	75	100
	SWAYAM / NAAN eligible for obtaining	•	nline Spoken Tutorial by IIT Bo]	mbay – N	MOOC[Mandato	ory Onlin	e Course	to be
			TOTAL	30	23	-	175	525	700
			Grand Total	120	91		650	1950	2600

RESEARCH ACTIVITIES OF THE COLLEGE

CENTRAL COUNCIL FOR RESEARCH UNANI MEDICINE, MINISTRY AYUSH, GOVERNMENT OF INDIA

1. Approval of the Director General, CCRUM, New Delhi – Sanction and Release of Grant- Ongoing Research Project from 2022 onwards

S.	Principal Investigator	Title of the Project	Amount
No.			Sanctioned
1	Dr. M.P. Ashar Waheed	Exploring the Anti-inflammatory	11,25,000/-
	Assistant Professor of	Mechanism of Action of Specific Unani	
	Biochemistry	Formulation	
	Islamiah College (Autonomous),		
	Vaniyambadi		

2. The Tamil Nadu State Council for Science and Technology has sanctioned a sum of Rupees 7500/ to Mr. M. Murugan and Mr. S. Karthick from the Department of Biochemistry for the student project entitled Identification of anemic in school adolescence girls treatment & highlighting possible prevention strategies under Student Project Scheme. The project was sanctioned under Dr. A. Gokulskrishnan, Assistant Professor and Head of the Department of Biochemistry, Islamiah College (Autonomous), Vaniyambadi.

COLLEGE JOURNAL

- 1. International Journals of Science and Humanities, Vol. 8, No. 1 [January –June 2022], ISSN Print 2394 9236
- 2. International Journals of Science and Humanities, Vol. 8, No. 2 [July December], ISSN Print 2394 9236

REGULATIONS

Value-Added SKILL DEVELOPMENT Certificate Courses (For the Candidates admitted from the academic year 2023 –2024)

1. ELIGIBILITY FOR ADMISSION

A candidate who has passed the higher secondary examination and joined in any degree course in this College is eligible to undergo Certificate Programmes.

2. DURATION OF THE COURSE

The certificate course is for a period of one to three months. The course subject and practical will be conducted beyond the working hours of the College.

3. COURSE OF STUDY

This Programme is envisaged to provide flexibility in choosing the combination of subjects without any limitation, identifying the local need-based subjects, and entering the job market with gained skills in the respective discipline. The course of study consists of theory papers and practical/Project/fieldwork.

4. SCHEME OF EXAMINATION

Srl. No	Course Code	Course Title	Duration of the Course (Month)	Exam. Hrs.	Credits	Marks
1	UBMSCC01	Certificate Course in 'Bio-Statistics'	3	3	3	100
2	UBPYCC01	Certificate Course in 'Basic Electronics and Servicing of Home Appliances	3	3	3	100
3	UBCHCC01	Certificate Course in 'Preparation of Domestic Products'	3	3	3	100
4	UBCHCC02	Certificate Course in 'Testing and Analysis of Industrial Products'	3	3	3	100
5	UBCHCC03	Certificate Course in 'Domestic and Laboratory Discharge water treatment method and process'	3	3	3	100
6	UBBICC01	Hands-on Training in 'Mushroom Cultivation'	3	3	3	100

7	UBBTCC01	Certificate Course on 'Herbal Medicines'	3	3	3	100
8	UBCSCC01	Certificate Course in 'Web Designing'	3	3	3	100
9	UBUACC01	Certificate Course in 'Arabic' offered by NCPUL	3	3	3	100
10	UBENCC01	Certificate Course in 'Spoken English'	3	3	3	100
11	UBENCC02	Certificate Course in English for Budding Entrepreneurs"	Five Week - online		100	
12	UBHICC01	Certificate Course in 'Tourism & Travel Management	3	3	3	100
13	UBCOCC01	UGC Sponsored Certificate Course in 'E-Commerce & Footwear Technology	12	3	5	100
14	UBCOCC02	Certificate Course in 'Business Computer Applications	3	3	3	100
15	UBFACC01	Certificate Course in 'Accounting Technician' offered by ICAI	3	3	3	100
16	UBBACC01	Certificate Course in 'Stress Management Skills	3	3	3	100
17	UBCACC01	Certificate Course in 'Online Trading of Securities	3	3	3	100
18	UBBTCC02	Certificate Course in Ornamental Fish Culture	3	3	3	100
19	UBCSCC01	Certificate Course in "PC Assembly & Maintenance"	3	3	3	100
20	UBCSCC02	Certificate Course in Network Administration	3	3	3	100

5. REQUIREMENTS TO TAKE THE EXAMINATION:

A candidate shall be permitted to take the examination provided he secures 75% attendance in both theory and practical classes and must complete the project work as prescribed.

6. PRACTICAL/PROJECT

Practical classes shall be designed in such a manner that a student acquires practical knowledge in handling, managing, and practicing the tools, materials, and equipment relating to the certificate courses. Project work will consist of an assignment in the subject area. Topics will be selected by the student and approved by the program coordinator.

7. MEDIUM OF INSTRUCTION

The medium of instruction and examination shall be English only.

8. PASSING MINIMUM

A candidate shall be declared to have passed the paper if he obtains a minimum of 40% of 100 marks (Theory + Practical/Projects).

Course	Maximum Marks
Theory	75
Practical/Project	25
Total	100

8. QUESTION PAPER PATTERN:

The question paper pattern for the course shall be as follows:

Section – A 10 Questions without the choice of 2 marks each $(10\times2=20)$

Section – B 5 out of 8 questions – 5 marks each $(5 \times 5 = 25)$

Section – C 3 out of 5 questions – 10 marks each $(3\times10=30)$

REGULATIONS FOR UNIVERSITY GRANTS COMMISSION SPONSORED CAREER-ORIENTED CERTIFICATE COURSE IN E-COMMERCE AND FOOTWEAR TECHNOLOGY

Semester System with Credits with effect from the year 2013 – 2014 onwards

ELIGIBILITY FOR ADMISSION:

Any student of the second and third-year undergraduate course

DURATION OF THE COURSE:

One academic year comprising ninety working days spread over two semesters of forty-five days each. Each semester shall have 120 hours, out of which 90 hours shall be for theory classes, and 10 hours each shall be allocated for practical classes, project work, and fieldwork.

THE COURSE OF THE STUDY

The course of study shall be under a semester pattern with credits. The course consists of one core paper, practical classes, project work, and fieldwork.

REQUIREMENTS TO TAKE THE EXAMINATION:

A candidate shall be permitted to take the examination provided they secure 75% attendance in both theory and practical classes and must complete project work and fieldwork as prescribed.

PRACTICAL CLASSES:

Practical classes shall be designed in such a manner that a student acquires practical knowledge in handling, managing, and practicing the tools and equipment relating to the orientation courses.

PROJECT WORK:

Project work will consist of small assignments in the subject area. Topics will be selected by the students and approved by the faculty.

FIELDWORK:

Fieldwork consists of industrial visits and observations designed to gain firsthand knowledge of the subject. It will be done either individually or in groups.

MEDIUM OF INSTRUCTION AND EXAMINATION:

The medium of instruction and examination of the candidate shall be English.

MINIMUM PASS MARKS:

A candidate shall be declared to have passed the paper if he obtains a minimum of 40 marks i.e. 25 from theory and 15 from practical and project work. The maximum and minimum marks for the course shall be as follows:

Course	Maximum Marks	Minimum Marks
Theory	75	25
Practical	10	
Project Field Visits	10	15
Field Visits	5	
Total	100	40

QUESTION PAPER PATTERN:

The question paper pattern for the course shall be as follows:

Section – A [10 Questions without the choice of 2 marks each (10X2=20)]

Section – B [5 out of 8 questions – 5 marks each (5X5=25)]

Section – C [3 out of 5 questions – 10 marks each (3X10=30)]

DEPARTMENT OF COMMERCE (FINANCE & ACCOUNTS) REGULATION FOR CAREER ORIENTED CERTIFICATE COURSE IN

ACCOUNTING TECHNICIAN

ABOUT THE COURSE

Career Oriented Certificate in Accounting Technician Course (CAT) Conducted by the

Department of Commerce (Finance & Accounts) with the Collaboration of the Institute of Cost

Accountants of India (ICAI), New Delhi.

ELIGIBILITY CRITERIA

A student who has passed the Class 10 examination conducted by an examining body

constituted by the law of India or an examination recognized by the Central Government / State

Government as equivalent thereto may register for the CAT Course and simultaneously study and

appear for the Senior Secondary (10+2) Examination.

(Or)

Passed the Senior Secondary School Examination under the 10+2 scheme of a recognized Board or an

Examination recognized by the Central Government as equivalent thereto or has passed the National

Diploma in Commerce Examination or any State Board of Technical Education under the authority of

the said All India Council (AIC), or the Diploma in Rural Service Examination conducted by the National

Council of Higher Education.

Duration of the Course

CAT – Foundation Course (Entry-level) Part-I-200 Hours of Coaching and Self-Assessment –

online/offline.

Duration of CAT-Competency Level – Part – 100 hours of Computer Training, Training on the filing of

Returns, Cost Sheet preparation, and self-assessment – online/offline

SUMMARY OF THE COURSE

Foundation Course (Entry Level) Part-I

Paper 1: Fundamentals of Financial Accounting

Paper 2: Applied Business and Industrial Laws

Paper 3: Financial Accounting - II Paper 4: Statutory Compliance

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Competency Level – Part – II

Fundamentals of Computers

Filling of Statutory Returns

Introduction top Costing principles and Preparation of Cost Statements

5 – days Orientation Programme

The pattern of the CAT Examination/Assessment Test

Examination Pattern for Foundation Course (Entry Level) Part –I

The examination shall have Multiple Choice Questions to be answered online. The Examination of

Foundation Course (Entry Level) Part- I shall be held on a single day in two sessions, Forenoon and

Afternoon. The details of the papers covered in both the sessions would be:

PAPER I (100 MARKS)

Section A: Fundamentals of Financial Accounting (60 Marks)

Section B: Applied Business and Industrial Laws (40 Marks)

Total Questions: 100 (Multiple Choice Questions)

Maximum Marks: 100 (Each Question will carry 1 Mark)

There will be no negative marking for wrong answers

PAPER II (100 MARKS)

Section A: Financial Accounting- II (50 Marks)

Section B: Statutory Compliance (50 Marks)

Total Questions: 100 (Multiple Choice Questions)

Maximum Marks: 100 (Each Question will carry 1 Mark)

There will be no negative marking for wrong answers

STANDARD OF PASSING

A candidate of the Foundation Course (Entry Level) Part- I Examination shall be declared to have

passed the Examination if secures a minimum of 40% marks in each paper and an aggregate of 50% of

total marks in the Foundation Course (Entry Level) part- I Examination.

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