FOUR YEAR UNDERGRADUATE PROGRAM (2024 – 28)
Department of Biochemistry
Course Curriculum

PART- A: Introduction				
Program: Bachelor in Science *(Honors / Honors with Research)*		**Semester - VIII**	Session: **2024-2025**	
1	**Course Code**	**BCSE - 11 T**		
2	**Course Title**	**Entrepreneurship Development**		
3	**Course Type**	**Discipline Specific Elective (Theory)**		
4	**Pre-requisite** (if, any)	As per Program		
5	**Course Learning. Outcomes (CLO)**	*On successful completion of the course, the student shall be able to:* ➢ Generate, evaluate and shape ideas. ➢ Identify the resources needed to establish and sustain a successful venture. ➢ Demonstrate an understanding of how basic science can be commercialized. ➢ Assess the commercial potential of a business opportunity.		
6	**Credit Value**	**3 Credits**	***Credit = 15 Hours - learning & Observation***	
7	**Total Marks**	**Max. Marks: 100**	**Min Passing Marks: 40**	

PART -B: Content of the Course

Total No. of Teaching–learning Periods (01 Hr. per period) - 45 Periods (45 Hours)

Unit	Topics (Course contents)	No. of Period
I	**Introduction:** Meaning, needs and importance of Entrepreneurship, Promotion of Entrepreneurship, Factors influencing entrepreneurship, Features of a successful Entrepreneurship	10
II	**Establishing an Enterprises-** Forms of business, organisation, project identification, selection of the product, project formulation, assessment of project feasibility	10
III	**Financing the Enterprise:** importance of Finance loans and repayments characteristics of Business Finance fixed Capital Management source of fixed capital working capital its source and how to move for loans inventory direct and indirect raw materials and its management.	11
IV	**Marketing Management** Meaning and importance marketing, mix product management, product line, product mix, stages of product, like cycle marketing research and importance of service physical distribution and stock management. **Entrepreneurship and International Business-** Meaning of international business selection of a product selection of a market for international business expert financing institutional support for exports.	14
Keywords	Finance, Marketing	

Name and Signature of Convener & Members of CBoS:

PART–C: Learning Resources		
Text Books, Reference Books and Others		
Text Books Recommended – ➢ Shreefal S. Mehta (2008) Commercializing Successful Biomedical Technologies: Basic Principles for the Development of Drugs, Diagnostics and Devices. Cambridge University Press ➢ Yali Friedman (2004) Building Biotechnology: Starting, Managing, And Understanding Biotechnology Companies.		
PART -D: Assessment and Evaluation		
Suggested Continuous Evaluation Methods: **Maximum Marks: 100 Marks** **Continuous Internal Assessment (CIA): 30 Marks** **End Semester Exam (ESE): 70 Marks**		
Continuous Internal Assessment (CIA): **(By Course Teacher)**	Internal Test / Quiz-(2): **20 +20** Assignment / Seminar - **10** Total Marks - **30**	Better marks out of the two Test / Quiz + obtained marks in Assignment shall be considered against **30** Marks
End Semester Exam (ESE):	**Two section – A & B** Section A: **Q1**. Objective – **10 x1= 10** Mark; **Q2**. Short answer type- **5x4 =20 Marks** Section B: Descriptive answer type qts.,**1out of 2** from each unit-**4x10=40 Marks**	

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1	**Course Code**	**BCSE - 11 P**		
2	**Course Title**	**Entrepreneurship Development**		
3	**Course Type**	**Discipline Specific Elective (Practical)**		
4	**Pre-requisite (if, any)**	As per Program		
5	**Course Learning. Outcomes (CLO)**	*On successful completion of the course, the student shall be able to:* ➢ Critically evaluate information in order to improve decision making, formulate objectives, determine strategies and plan actions. ➢ Assess the commercial potential of a business opportunity. ➢ Evaluate the issues that can impact on the successful commercialisation of a business idea. ➢ Develop and utilise creative problem-solving skills.		
6	**Credit Value**	**1 Credits**	***Credit =30 Hours Laboratory or Field learning/Training***	
7	**Total Marks**	**Max. Marks: 50**	**Min Passing Marks: 20**	

PART -B: Content of the Course

Total No. of learning-Training/performance Periods: 30 Periods (30 Hours)

Module	Topics (Course contents)	No. of Period
Lab./Field Training/ Experiment Contents of Course	1. Students will be allotted with a topic on a potential commercial application. Students have to go research the scientific background behind the given topic. Once the service/product is decided, one or two students will undertake the product development section which requires very applied and technical research. 2. Business/regulatory: All students will carry out a preliminary feasibility study for their commercial application. Once a concept is chosen, students will need to establish the regulatory paths, business model, value proposition, competition, market, operations 3. Students will present the bioscience behind their business idea to their supervisor and receive feedback on their draft poster.	**30**
Keywords	Market, Business, product development	

Name and Signature of Convener & Members of CBoS:

PART–C: Learning Resources

Text Books, Reference Books and Others

Text Books Recommended –

- Shreefal S. Mehta (2008) Commercializing Successful Biomedical Technologies: Basic Principles for the Development of Drugs, Diagnostics and Devices. Cambridge University Press
- Yali Friedman (2004) Building Biotechnology: Starting, Managing, And Understanding Biotechnology Companies.

PART -D: Assessment and Evaluation

Suggested Continuous Evaluation Methods:

Maximum Marks: **50 Marks**

Continuous Internal Assessment (CIA): **15 Marks**

End Semester Exam (ESE): **35 Marks**

Continuous Internal Assessment (CIA): (By Course Teacher)	Internal Test / Quiz-(2): **10 & 10** Assignment/Seminar +Attendance - **05** Total Marks - **15**	Better marks out of the two Test / Quiz + obtained marks in Assignment shall be considered against **15** Marks
End Semester Exam (ESE):	**Laboratory / Field Skill Performance: On spot Assessment** **A. Performed the Task based on lab. work - 20 Marks** **B. Spotting based on tools & technology (written) – 10 Marks** **C. Viva-voce (based on principle/technology) - 05 Marks**	**Managed by Course teacher as per lab. status**

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