

SHRI SHIVAJI EDUCATION SOCIETY AMRAVATI'S  
SCIENCE COLLEGE, CONGRESS NAGAR, NAGPUR

UG Department of Microbiology  
Add on Course: Bioentrepreneurship  
Session 2022-23

Course Coordinator Report

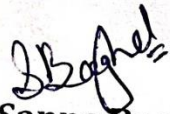
A free Add-On Course for UG students in the Department Microbiology, Shri Shivaji Education Society Amravati's Science College, Congress Nagar, Nagpur was held from 16<sup>th</sup> August 2022 to 22<sup>nd</sup> October 2022. The course title was "Bioentrepreneurship". It is the complete beginner to Expert Course was perfect for anyone who wants to learn Bioentrepreneurship.

The Bioentrepreneurship course is designed to provide students with foundational knowledge and skills necessary for starting and managing a biotech venture. The course covers key aspects of entrepreneurship in the biotech industry, including idea generation, business planning, market analysis, and funding strategies. This practical and interactive course aims to equip students with the tools needed to turn innovative ideas into successful biotech businesses.

The course duration was 10 weeks (30 hours). Two theory classes were engaged on Friday & Saturday and one Practical was engaged in every week. The structure of marking system was 50 marks on theory paper and 40 marks on practical examination including 10 marks for internal. The question paper of theory examination was in MCQ type of 25 questions with four multiple choices. Practical examination was also taken on this course for 40 marks. Internal marks assessment was on the basis of regularity, attendance, assignment submission etc. All the 85 students were present in both theory and practical examination. The result was prepared and certificates were also distributed to the students.

**Action Taken:** This course provides a comprehensive introduction to bioentrepreneurship, focusing on the intersection of biological sciences and business. It covers the essential principles of entrepreneurship within the biotechnology sector, including innovation, business planning, and commercialization of biological products.



  
Dr. Sapna Baghel  
Course- Coordinator

SHRI SHIVAJI EDUCATION SOCIETY AMRAVATI'S  
SCIENCE COLLEGE, CONGRESS NAGAR, NAGPUR

UG Department of Microbiology  
Add on Course: Bioentrepreneurship  
Session 2022-23

To,  
The Principal  
SSES Am's Science College,  
Congress Nagar, Nagpur-12

Subject: Permission to conduct the add on courses in the Microbiology and  
Biotechnology department during the session 2022-2023

Respected Sir,

This is to request you that, we wish to conduct the add on courses in  
Microbiology and Biotechnology department these are the certificate courses of  
thirty hours' time duration.

The details of the courses are submitted here with  
Hence please permit to run the same and oblige me.

Thanking you

Yours sincerely

*Abhishek*

HEAD  
Department of Microbiology  
Science College, Congress Nagar,  
NAGPUR.

2/07/2022



*Permitted  
A. S. Ghosh*

SHRI SHIVAJI EDUCATION SOCIETY AMRAVATI'S  
SCIENCE COLLEGE, CONGRESS NAGAR, NAGPUR

UG Department of Microbiology

NOTICE

Date: 02/08/2022

All the students are informed that U.G. Department of Microbiology runs **Add on Course: Bioentrepreneurship** for the session 2022-23. Interested students of B.Sc. are requested to register their names to the course Coordinator Dr. Sapna Baghel on or before 13/08/2022.



*S. Baghel*  
Dr. Sapna Baghel  
Course- Coordinator  
Add on Course

**U.G. DEPARTMENT OF MICROBIOLOGY,  
SCIENCE COLLEGE, CONGRESS NAGAR, NAGPUR**

Accredited with CGPA of 3.51 at 'A+' Grade by NAAC, Bangalore  
A College with Potential for Excellence  
An Institutional Member of APQN  
Recognized Center for Higher Learning & Research  
A Mentor College under Paramarsh Scheme of UGC, New Delhi  
A Mentor College under Paris Sparsh Scheme of Maharashtra State

**Add on Course for the Session 2022-23**  
*on*  
**Bioentrepreneurship**

**Course Introduction**

The Bioentrepreneurship course is designed to provide students with foundational knowledge and skills necessary for starting and managing a biotech venture. The course covers key aspects of entrepreneurship in the biotech industry, including idea generation, business planning, market analysis, and funding strategies. This practical and interactive course aims to equip students with the tools needed to turn innovative ideas into successful biotech businesses.

**Course Objectives**

- To understand the fundamentals of entrepreneurship and the biotech industry.
- To develop skills in idea generation and evaluating business opportunities.
- To learn how to create comprehensive business plans for biotech ventures.
- To explore funding options and strategies for biotech startups.
- To gain insights into market analysis and strategies for entering the biotech market.

**Registration Date: 13/08/2022**

**Prof. Atul Bobdey**  
*Coordinator*  
*Dept. of Microbiology*

**Prof. Mahendra Dhore**  
*Principal*  
*Science College, Nagpur*

**Dr. Sapna Baghel**  
*Course- Coordinator*  
*Add on Course*



## UG Department of Microbiology

### Add-on Course: Bioentrepreneurship (Session 2022-23)

Course Co-ordinator: Dr. Sapna Baghel

#### Course Introduction

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**Instructional Strategies:** Theory class, Practical, Video clips, Models etc.

**Evaluation Strategies:** Oral discussions and Final MCQ examination

**Course Outcomes:** Upon completing this course, students will be able to:

- Generate and evaluate business ideas in the biotech field.
- Develop and present detailed business plans.
- Analyze market opportunities and create entry strategies.
- Identify and pursue appropriate funding sources.
- Manage and grow a biotech startup.

**Duration of course:** Ten weeks (30 Hours)



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Dr. Sapna Baghel  
Course- Coordinator  
Add on Course


**UG Department of Microbiology**  
**Add-on Course: Bioentrepreneurship (Session 2022-23)**


**Module: The Structure of Syllabus and system of evaluation**

Course	Theory Papers and Practical	Total Marks		
		Theory	Internal	Practical
Certificate Course in Bioentrepreneurship	Theory paper- Bioentrepreneurship * Theory examination will be of MCQ pattern having 25 questions each with equal marks.	50	10	40
	* Practical examination will be based on performance evaluation in the laboratory and hands-on-training	100		

  
**Dr. Sapna Baghel**  
Add on Course Coordinator



  
**Dr. Amitabh Halder**  
IQAC Coordinator  
Internal Quality Assurance Cell  
(IQAC)  
S. S. E. S. A. Science College  
Congress Nagar, Nagpur.

  
**Prof. Mahendra Dhore**  
Principal  
Principal  
S. S. E. S. Amravati's  
Science College, Nagpur.



**UG Department of Microbiology**  
**Syllabus of Add-on Course: Bioentrepreneurship**  
**(Session 2022-23)**

**Course Units**

**Unit 1: Introduction to Bioentrepreneurship**

- **Topics:**
- Definition and scope of bioentrepreneurship
- The biotech industry landscape
- Key characteristics of successful bioentrepreneurs
- Overview of the biotech product development process

**Unit 2: Idea Generation and Evaluation**

- **Topics:**
- Techniques for generating innovative ideas
- Identifying and assessing business opportunities
- Feasibility analysis
- Intellectual property basics in biotechnology

**Unit 3: Business Planning for Biotech Ventures**

- **Topics:**
- Components of a business plan
- Market analysis and competitive analysis
- Marketing and sales strategies
- Financial planning and projections

**Unit 4: Funding and Managing Biotech Startups**

- **Topics:**
- Overview of funding options (venture capital, angel investors, grants, etc.)
- Strategies for securing funding
- Managing startup operations
- Scaling and growth strategies

**Practical Sessions**

**Practical 1: Idea Generation Workshop**

- **Activity:** Brainstorming and developing biotech business ideas in groups.
- **Outcome:** Presentation of initial business ideas with feasibility analysis.

**Practical 2: Business Plan Development**

- **Activity:** Creating a business plan for a chosen biotech venture.
- **Outcome:** Detailed written business plan with all key components.

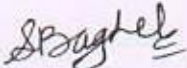
**Practical 3: Market Analysis Project**

- **Activity:** Conducting a market analysis for a biotech product or service.
- **Outcome:** Market analysis report identifying target market, competitors, and entry strategies.

**Practical 4: Funding Pitch Presentation**

- **Activity:** Preparing and presenting a funding pitch to a mock panel of investors.
- **Outcome:** Funding pitch presentation and feedback session.



  
**Dr. Sapna Baghel**  
Course- Coordinator  
Add on Course

**UG Department of Microbiology**  
**Add-on Course: Bioentrepreneurship (Session 2022-23)**  
**Week-wise teaching plan:**

Week	Hrs.	Syllabus
Week 1	2	Definition and scope of bioentrepreneurship
	1	The biotech industry landscape
Week 2	2	Key characteristics of successful bioentrepreneurs
	1	Overview of the biotech product development process
Week 3	2	Techniques for generating innovative ideas
	1	Identifying and assessing business opportunities
Week 4	2	Intellectual property basics in biotechnology
	1	Components of a business plan
Week 5	2	Market analysis and competitive analysis
	1	Marketing and sales strategies
Week 6	2	Financial planning and projections
	1	Overview of funding options (venture capital, angel investors, grants, etc.)
Week 7	2	Strategies for securing funding
	2	Managing startup operations
Week 8	2	Scaling
	2	growth strategies
Week 9	1	Brainstorming and developing biotech business ideas in groups
	1	Creating a business plan for a chosen biotech venture
Week 10	1	Conducting a market analysis for a biotech product or service
	1	Preparing and presenting a funding pitch to a mock panel of investors



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**UG Department of Microbiology**  
**Add-on Course: Bioentrepreneurship (Session 2022-23)**

**Time Table**

w.e.f. 16/08/2022

Day	Theory
Friday	Dr. Sapna Baghel (R. no C9 ) Theory 4.00 PM - 5.00 PM
Saturday	Dr. Sapna Baghel (R. no C9) Practical 4.00 PM - 5.30 PM
	Dr. Sapna Baghel (R. no C9) Theory 4.00 PM - 5.00 PM



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**Dr. Sapna Baghel**  
Course- Coordinator  
Add on Course





15.	Bisen Kajal Deblal	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P
16.	Bole Achal Anoop	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P
17.	Bonde Shruti Vinod	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P
18.	Bondre Tithi Kusumakar	P	A	P	P	P	P	P	A	P	P	P	P	P	P	P	P	A	P
19.	Borkar Dushant Rushi	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
20.	Brahmankar Smruti Sanjay	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
21.	Changole Anushka Devidas	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P
22.	Chaudhari Bharvi Vikas	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A
23.	Chavhan Ayush Dilip	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P
24.	Chikhalkar Harshada Wasudev	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
25.	Dalal Dhanashree Vikas	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P
26.	Dalvi Chetna Kailas	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P
27.	Deotale Shrutika Dilip	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P
28.	Deshmukh Tanvi Rajesh	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P
29.	Dhakate Krutika Mahesh	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
30.	Dhengre Pranjal Naresh	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
31.	Dhobe Riya Satish	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
32.	Dhore Parisa Pramod	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P
33.	Dongre Mahak Neelam	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P
34.	Gajbhiye Arpita Kishor	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
35.	Gajbhiye Vasudha Vijay	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P
36.	Ghadge Siddhant Ramuji	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P





























**List of the Students: Add on Course- Bioentrepreneurship  
(Session 2022-2023)**

Sr. No.	Name of Student	Signature
1)	ALDAK NUPUR RAJENDRA	<u>Nidak</u>
2)	AMBOLE TRUPTI DNYANESHWAR	<u>Ambole</u>
3)	ANASANE VAIDEHI GANESH	<u>Vaidehi</u>
4)	ATILKAR PRANAY DNANESWHAR	<u>Atilkar</u>
5)	BAGDE HRUSHIKESH KIRAN	<u>HBagde</u>
6)	BAGDE YASHIKA PRAMOD	<u>YBagde</u>
7)	BANSOD SAMYAK DNYANESWATR	<u>SBansode</u>
8)	BARASKAR ASHWINI UMESH	<u>ABaraskar</u>
9)	BARDE VISHA PRAKASH	<u>VBarde</u>
10)	BEHATE SAHIL GAJANAN	<u>Behate</u>
11)	BHAKNE POONAM NIRANJAN	<u>Poonam</u>
12)	BHOYAR HEMAD AJAY	<u>Bhemad</u>
13)	BHUSHANKAR MRUNALI NARESH	<u>Mrunali</u>
14)	BHUTE JANVI SACHIN	<u>JBhute</u>
15)	BISEN KAJAL DEBLAL	<u>Bisen</u>
16)	BOLE ACHAL ANOOP	<u>ABole</u>
17)	BONDE SHRUTI VINOD	<u>Bonde</u>
18)	BONDRE TITHI KUSUMAKAR	<u>Tithi Bondre</u>
19)	BORKAR DUSHANT RUSHI	<u>Borkar</u>
20)	BRAHMANKAR SMRUTI SANJAY	<u>Brahmankar</u>
21)	CHANGOLE ANUSHKA DEVIDAS	<u>Achangole</u>
22)	CHAUDHARI BHARVI VIKAS	<u>Bchaudhari</u>
23)	CHAVHAN AYUSH DILIP	<u>Ayush C.</u>
24)	CHIKHALKAR HARSHADA WASUDEV	<u>Chikalhar</u>



25)	DALAL DHANASHREE VIKAS	Dalal
26)	DALVI CHETNA KAILAS	Chetna
27)	DEOTALE SHRUTIKA DILIP	Shrutika
28)	DESHMUKH TANVI RAJESH	Tanvi
29)	DHAKATE KRUTIKA MAHESH	Dhakate
30)	DHENGRE PRANJAL NARESH	Pranjel
31)	DHOBE RIYA SATISH	Riya
32)	DHORE PARISA PRAMOD	Dhore
33)	DONGRE MAHAK NEELAM	Mahak Dongre
34)	GAJBHIYE ARPITA KISHOR	Arpita
35)	GAJBHIYE VASUDHA VIJAY	Vasudha
36)	GHADGE SIDDHANT RAMUJI	Siddhant
37)	GHUGAL RUSHALI GHANSHYAM	Rushali
38)	GUJWAR KHUSHBU PURANSINGH	Khushbu
39)	HAKIM SHAFIN RAFIYODDIN	S. Hakim.
40)	HEDYATULLAH SUHANA	Suhana
41)	HIWARKAR RAUNAK KRISHNA	Raunak
42)	INGOLE NIKITA BANDU	Nikita
43)	ISHWARKAR KANIKA YOGRAJ	Kanika
44)	JAITWAR KAJAL RATANLAL	Kajal
45)	JAMBHULKAR KALSHIKA SUDESH	Kalshika
46)	JIWANE GRECY CHANDU	Grecy
47)	JOGANI ISHA SURAJ	Jogani
48)	JOSHI ARYAN SHRIPAD	Aryan
49)	JUNGHARE SANCHIT SHESHRAO	Sanchit
50)	KADAMDHAD MAYUR YOGESHWAR	Mkadmadhad
51)	KADU UNNATI UMESH	Unnati
52)	KALAMKAR SHRAVANI MADHUKAR	Shravani
53)	KALE GAURI ATUL	Gauri
54)	KAMBE ARPIT AVINASH	Arpit Kambe
55)	KAMBLE KOMAL SANJAY	Kamble



56)	KAMDAR SURBHI	<u>SKanade</u>
57)	KAWADE KHUSHI RAJU	<u>Kawade</u>
58)	KELAPURE SAI PRIYA RAMCHANDRA	<u>KSaiPriya</u>
59)	KHOT SAMIKSHA GHANSHYAM	<u>SKhot</u>
60)	KOTHALKAR AWANTI SAHEBRAO	<u>AKothalkar</u>
61)	KULTHE SNEHA PAWAN	<u>SKulthe</u>
62)	KUTHE HEMAKSHI MAHESHKUMAR	<u>Khemakshi</u>
63)	LOMSOGE SAYUKTA PRASHANT	<u>S. Lomsoge</u>
64)	MADAN MOKSHITA HARISH	<u>MMedan</u>
65)	MALEWAR SOUMYA SUNIL	<u>Smalewar</u>
66)	MALOT MUSKAN HUSEIN	<u>MMalot</u>
67)	MANKAR MAITREYEE KISHOR	<u>Maitreyee</u>
68)	MARASKOLHE NETRA PRADEEPKUMAR	<u>Netra..</u>
69)	MASRAM KHUSHBU DEVANAND	<u>KMasram</u>
70)	MATE SHREYA SUDHAKAR	<u>Smate.</u>
71)	MESHARAM DIVYANI EKNATH	<u>Mesharam</u>
72)	NADIYA FATMA	<u>Fatma</u>
73)	NAGARE TANMAY PRADIP	<u>TNagare</u>
74)	PAIDLEWAR SALONI DINESH	<u>Saloni</u>
75)	PAIGANI MEETALI RAJENDRA	<u>MPaigani</u>
76)	PATIL ANSHUL RAVINDRA	<u>Apatil</u>
77)	PRASAD SONAM RAMNATH	<u>PSonam</u>
78)	RALBANDIWAR UMARANI SANJAY	<u>Umarani</u>
79)	SHAIKH ZOYA MOHAMMAD	<u>SZoya.</u>
80)	SINGH MUSKAN KUNDAN KUMAR	<u>SMuskan</u>
81)	THAKUR SHRUSHTI DEEPAKSINGH	<u>SThakur</u>
82)	UPARKAR JUEE VILAS	<u>JUparkar</u>
83)	WALDE DURGA RAJU	<u>AWalde</u>
84)	WANKHEDE JUHI MANOJ	<u>JWankhede</u>
85)	WASNIK YASH PRAMOD	<u>YashWasnik</u>



S. Baghel  
Do. Sapna Baghel



**UG Department of Microbiology**  
**Add-on Course: Bioentrepreneurship (Session 2022-23)**

**Theory Exam Multiple Choice Questions (MCQs) Pattern**

1. What is bioentrepreneurship?
  - a) The process of creating a new business in the biotechnology field.
  - b) The study of biological processes.
  - c) Managing a biotech laboratory.
  - d) Investing in biotech stocks.
  - **Answer: a**
2. Which of the following is a key characteristic of a successful bioentrepreneur?
  - a) Risk aversion
  - b) Inflexibility
  - c) Innovative thinking
  - d) Lack of vision
  - **Answer: c**
3. What is the first step in the biotech product development process?
  - a) Market analysis
  - b) Idea generation
  - c) Funding
  - d) Production
  - **Answer: b**
4. Which technique is commonly used for generating innovative ideas?
  - a) Brainstorming
  - b) Market research
  - c) Financial analysis
  - d) SWOT analysis
  - **Answer: a**
5. What is feasibility analysis?
  - a) Assessing the potential success of a business idea.
  - b) Writing a business plan.
  - c) Securing funding.
  - d) Conducting market research.
  - **Answer: a**
6. What is intellectual property (IP)?
  - a) Physical property owned by a biotech company.
  - b) Knowledge and ideas legally protected from unauthorized use.
  - c) Financial assets of a company.
  - d) Equipment used in biotech labs.
  - **Answer: b**
7. Which component is NOT part of a business plan?
  - a) Executive summary
  - b) Financial projections
  - c) Daily task list
  - d) Market analysis
  - **Answer: c**

8. What does market analysis involve?
- a) Studying the target market and competitors.
  - b) Developing a marketing strategy.
  - c) Setting up a production facility.
  - d) Conducting scientific research.
  - **Answer: a**
9. Which strategy is essential for entering a new market?
- a) Ignoring competitors
  - b) Comprehensive market research
  - c) High pricing
  - d) Minimal marketing efforts
  - **Answer: b**
10. What is the primary goal of a funding pitch?
- a) To entertain potential investors
  - b) To secure financial investment
  - c) To conduct scientific experiments
  - d) To create a marketing plan
  - **Answer: b**
11. Which funding option involves private investors providing capital in exchange for equity?
- a) Bank loans
  - b) Grants
  - c) Venture capital
  - d) Crowdfunding
  - **Answer: c**
12. What is an angel investor?
- a) A government grant provider
  - b) A wealthy individual who invests in startups
  - c) A venture capital firm
  - d) A crowdfunding platform
  - **Answer: b**
13. What is essential for managing startup operations?
- a) Ignoring financial reports
  - b) Effective leadership and management skills
  - c) Avoiding market research
  - d) Minimal team communication
  - **Answer: b**
14. What is scaling in the context of a startup?
- a) Reducing the size of operations
  - b) Increasing the business's capacity and reach
  - c) Halting product development
  - d) Decreasing marketing efforts
  - **Answer: b**
15. Which document outlines the goals and strategies of a biotech venture?
- a) Research paper
  - b) Business plan
  - c) Patent application
  - d) Financial statement
  - **Answer: b**



16. What is the role of market research in bioentrepreneurship?
- a) Identifying potential customers and competitors
  - b) Designing laboratory experiments
  - c) Writing scientific publications
  - d) Managing day-to-day operations
  - **Answer: a**
17. Why is financial planning important for a biotech startup?
- a) To ensure adequate funding and sustainability
  - b) To avoid paying taxes
  - c) To conduct scientific research
  - d) To hire laboratory staff
  - **Answer: a**
18. What does SWOT analysis stand for?
- a) Strengths, Weaknesses, Opportunities, Threats
  - b) Sales, Workforce, Opportunities, Targets
  - c) Science, Work, Output, Technology
  - d) Success, Work, Operations, Tactics
  - **Answer: a**
19. What is the primary focus of a marketing strategy?
- a) Scientific research
  - b) Promoting and selling products or services
  - c) Financial planning
  - d) Laboratory management
  - **Answer: b**
20. What is the purpose of a competitive analysis?
- a) To understand the strengths and weaknesses of competitors
  - b) To avoid competition
  - c) To develop scientific theories
  - d) To manage internal operations
  - **Answer: a**
21. What is a business incubator?
- a) A facility that provides support to startup companies
  - b) A scientific research lab
  - c) A marketing agency
  - d) A financial institution
  - **Answer: a**
22. What is venture capital?
- a) Long-term funding from government grants
  - b) Investment from private equity firms
  - c) Loans from commercial banks
  - d) Donations from the public
  - **Answer: b**
23. What is the key benefit of having a detailed business plan?
- a) To secure funding and guide the startup's growth
  - b) To conduct scientific experiments
  - c) To hire laboratory staff
  - d) To purchase lab equipment
  - **Answer: a**
24. What is the significance of intellectual property in biotech startups?

- a) Protecting innovative ideas and inventions
- b) Reducing operational costs
- c) Managing financial accounts
- d) Conducting market research

• **Answer:** a

25. What is a key factor in the success of a biotech startup?

- a) Strong scientific background and entrepreneurial skills
- b) Lack of competition
- c) High initial investment
- d) Minimal marketing efforts

• **Answer:** a



*S. Baghel*

**Dr. Sapna Baghel**  
Course- Coordinator  
Add on Course



**UG Department of Microbiology**  
**Add-on Course: Bioentrepreneurship (Session 2022-23)**

**Practical Exam Question Paper:**

**Subject : Bioentrepreneurship**

**Center : S.S.E.S.A's Science College, Nagpur**

**Time : 5 hrs per day**

**Dates : 27/10/2022**

**Max. Marks: 40**

Q.1. Creating Business plan for a chosen Biotech venture	10
Q.2. Conducting a market analysis for a Biotech product or service	10
Q.3. Viva-Voce	10
Q.4. Practical Record	10

**Total Marks 40**



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Course- Coordinator  
Add on Course

**UG Department of Microbiology**  
**Add-on Course: Bioentrepreneurship (Session 2022-23)**  
**OMR Answer Sheet**

Shri Shivaji Education Society, Amravati's  
**SCIENCE COLLEGE**  
 Congress Nagar, Nagpur-12 (M.S.), India



Accredited with CGPA of 1.51 at A+ grade by NAAC, Bangalore.  
 A+ College with Potential for Excellence as Identified by UGC, New Delhi.  
 Institutional Member of APJG.  
 Recognized Centre for Higher Learning and Research.  
 Mentor College under 'PARAMARSHI Scheme', UGC, New Delhi.

**U.G. DEPARTMENT OF MICROBIOLOGY**

*Add-on Course*  
**Course Exam Name: Bioentrepreneurship**

Name of Student:

..NUPUR..I..ALOK..

Roll No.:

Session: 2022-23

Test Date: 27/10/2022

Max. Marks: 50

  
 Invigilator Signature

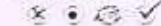
Obtained Marks:

**42**

**INSTRUCTIONS FOR FILLING THE SHEET**

- 1. The sheet contains 50 multiple choice questions.
- 2. Each question has four options (A, B, C, D) and one correct answer.
- 3. The correct answer is indicated by a black dot in the circle.
- 4. The wrong answers are indicated by a cross in the circle.
- 5. The correct answer is indicated by a black dot in the circle.
- 6. The wrong answers are indicated by a cross in the circle.

**WRONG METHODS**



**CORRECT METHOD**



	A	B	C	D		A	B	C	D		A	B	C	D		A	B	C	D		A	B	C	D
1	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	11	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	21	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	31	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	41	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	12	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	22	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	32	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	42	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	13	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	23	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	33	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	43	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	14	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	24	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	34	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	44	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	15	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	25	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	35	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	45	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	16	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	26	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	36	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	46	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	17	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	27	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	37	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	47	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
8	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	18	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	28	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	38	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	48	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
9	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	19	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	29	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	39	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	49	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
10	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	20	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	30	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	40	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	50	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>



**UG Department of Microbiology**  
**Mark List: Add on Course- Bioentrepreneurship (Session 2022-2023)**

Sr. No.	Name of the Student	Marks obtained out of 50 (Theory)	Marks obtained out of 40 (Practical)	Marks obtained out of 10 (Internal)	Total Marks 100	Grade
1)	ALDAK NUPUR RAJENDRA	42	35	10	87	A+
2)	AMBOLE TRUPTI DNYANESHWAR	48	36	10	94	O
3)	ANASANE VAIDEHI GANESH	44	35	10	89	A+
4)	ATILKAR PRANAY DNANESWHAR	50	34	10	94	O
5)	BAGDE HRUSHIKESH KIRAN	48	35	10	93	O
6)	BAGDE YASHIKA PRAMOD	50	38	10	98	O
7)	BANSOD SAMYAK DNYANESWATR	50	34	10	94	O
8)	BARASKAR ASHWINI UMESH	42	35	10	87	A+
9)	BARDE VISHA PRAKASH	44	35	10	89	A+
10)	BEHATE SAHIL GAJANAN	42	34	10	86	A+
11)	BHAKNE POONAM NIRANJAN	50	38	10	98	O
12)	BHOYAR HEMAD AJAY	48	36	10	94	O
13)	BHUSHANKAR MRUNALI NARESH	42	35	10	87	A+
14)	BHUTE JANVI SACHIN	46	39	10	95	O
15)	BISEN KAJAL DEBLAL	42	35	10	87	A+
16)	BOLE ACHAL ANOOP	44	35	10	89	A+
17)	BONDE SHRUTI VINOD	48	35	10	93	O
18)	BONDRE TITHI KUSUMAKAR	48	36	10	94	O
19)	BORKAR DUSHANT RUSHI	44	35	10	89	A+
20)	BRAHMANKAR SMRUTI SANJAY	50	34	10	94	O

21)	CHANGOLE ANUSHKA DEVIDAS	48	35	10	93	0
22)	CHAUDHARI BHARVI VIKAS	48	36	10	94	0
23)	CHAVHAN AYUSH DILIP	42	35	10	87	A+
24)	CHIKHALKAR HARSHADA WASUDEV	50	38	10	98	0
25)	DALAL DHANASHREE VIKAS	50	34	10	94	0
26)	DALVI CHETNA KAILAS	42	35	10	87	A+
27)	DEOTALE SHRUTIKA DILIP	44	35	10	89	A+
28)	DESHMUKH TANVI RAJESH	42	34	10	86	A+
29)	DHAKATE KRUTIKA MAHESH	50	38	10	98	0
30)	DHENGRE PRANJAL NARESH	42	35	10	87	A+
31)	DHOBE RIYA SATISH	48	36	10	94	0
32)	DHORE PARISA PRAMOD	44	35	10	89	A+
33)	DONGRE MAHAK NEELAM	50	34	10	94	0
34)	GAJBHIYE ARPITA KISHOR	48	35	10	93	0
35)	GAJBHIYE VASUDHA VIJAY	42	35	10	87	A+
36)	GHADGE SIDDHANT RAMUJI	48	36	10	94	0
37)	GHUGAL RUSHALI GHANSHYAM	42	35	10	87	A+
38)	GUJWAR KHUSHBU PURANSINGH	50	38	10	98	0
39)	HAKIM SHAFIN RAFIYODDIN	50	34	10	94	0
40)	HEDYATULLAH SUHANA	42	35	10	87	A+
41)	HIWARKAR RAUNAK KRISHNA	44	35	10	89	A+
42)	INGOLE NIKITA BANDU	42	34	10	86	A+
43)	ISHWARKAR KANIKA YOGRAJ	50	38	10	98	0
44)	JAITWAR KAJAL RATANLAL	50	37	10	97	0



45)	JAMBHULKAR KALSHIKA SUDESH	46	39	10	95	0
46)	JIWANE GRECY CHANDU	42	35	10	87	A+
47)	JOGANI ISHA SURAJ	44	35	10	89	A+
48)	JOSHI ARYAN SHRIPAD	48	35	10	93	0
49)	JUNGHARE SANCHIT SHESHRAO	50	34	10	94	0
50)	KADAMDHAD MAYUR YOGESHWAR	42	35	10	87	A+
51)	KADU UNNATI UMESH	44	35	10	89	A+
52)	KALAMKAR SHRAVANI MADHUKAR	42	34	10	86	A+
53)	KALE GAURI ATUL	50	38	10	98	0
54)	KAMBE ARPIT AVINASH	50	37	10	97	0
55)	KAMBLE KOMAL SANJAY	42	35	10	87	A+
56)	KAMDAR SURBHI	48	36	10	94	0
57)	KAWADE KHUSHI RAJU	44	35	10	89	A+
58)	KELAPURE SAI PRIYA RAMCHANDRA	50	34	10	94	0
59)	KHOT SAMIKSHA GHANSHYAM	48	35	10	93	0
60)	KOTHALKAR AWANTI SAHEBRAO	50	37	10	97	0
61)	KULTHE SNEHA PAWAN	46	39	10	95	0
62)	KUTHE HEMAKSHI MAHESHKUMAR	42	35	10	87	A+
63)	LOMSOGE SAYUKTA PRASHANT	44	35	10	89	A+
64)	MADAN MOKSHITA HARISH	48	35	10	93	0
65)	MALEWAR SOUMYA SUNIL	42	35	10	87	A+
66)	MALOT MUSKAN HUSEIN	48	36	10	94	0
67)	MANKAR MAITREYEE KISHOR	44	35	10	89	A+
68)	MARASKOLHE NETRA PRADEEPKUMAR	50	34	10	94	0

69)	MASRAM KHUSHBU DEVANAND	48	35	10	93	0
70)	MATE SHREYA SUDHAKAR	50	37	10	97	0
71)	MESHRAM DIVYANI EKNATH	50	38	10	98	0
72)	NADIYA FATMA	50	34	10	94	0
73)	NAGARE TANMAY PRADIP	42	35	10	87	A+
74)	PAIDLEWAR SALONI DINESH	44	35	10	89	A+
75)	PAIGANI MEETALI RAJENDRA	42	34	10	86	A+
76)	PATIL ANSHUL RAVINDRA	50	38	10	98	0
77)	PRASAD SONAM RAMNATH	48	36	10	94	0
78)	RALBANDIWAR UMARANI SANJAY	42	35	10	87	A+
79)	SHAIKH ZOYA MOHAMMAD	50	37	10	97	0
80)	SINGH MUSKAN KUNDAN KUMAR	48	35	10	93	0
81)	THAKUR SHRUSHTI DEEPAKSINGH	42	35	10	87	A+
82)	UPARKAR JUEE VILAS	48	36	10	94	0
83)	WALDE DURGA RAJU	44	35	10	89	A+
84)	WANKHEDE JUHI MANOJ	50	34	10	94	0
85)	WASNIK YASH PRAMOD	48	35	10	93	0



*S. Baghel*  
**Dr. Sapna Baghel**  
 Course- Coordinator  
 Add on Course





Shri Shivaji Education Society Amravati's  
**SCIENCE COLLEGE, CONGRESS NAGAR,  
NAGPUR**



Accredited with CGPA of 3.51 at 'A+' Grade  
A College with Potential for Excellence

**CERTIFICATE**

Mr./Ku. Aldak Nupur Rajendra is awarded with certificate on successful completion of the course entitled, Certificate course in "Bioentrepreneurship"

Session 2022-23 under Add-on course conducted for 30 hours from 16/08/2022 to 22/10/2022 by Department of Microbiology, SSES's, Science College, congress Nagar, Nagpur 440012.

He/She has passed the Examination with 'A<sup>+</sup>' Grade.

**Dr. Sapna Baghel**  
Coordinator, Department of Microbiology



**Prof. M. P. Dhore**  
Principal, Science College, Nagpur

Shri Shivaji Education Society Amravati's  
Science College , Congress Nagar Nagpur

Department Of Microbiology( PG)

Session 2022-23

Organizes

Add On Certificate Courses On

Bio- entrepreneurship

**Feedback form**

Que.1 .How Would You Rate The Overall Quality Of The **Add On Certificate Courses On Bio- entrepreneurship?**

- A. Excellent
- B. Good
- C. Average

Que.2. How well did the The **Add On Certificate Courses On Bio- entrepreneurship** content meet your expectations?

- A. Exceeded expectation
- B. Met expectations
- C. Below expectations

Que. 3. How effective were the course instructor in delivering the the The **Add On Certificate Courses On Bio- entrepreneurship?**

- A. Very effective
- B. Effective
- C. Ineffective

Que.4. How likely are you to recommend the The **Add On Certificate Courses On Bio- entrepreneurship** to others?

- A. Very likely
- B. Likely
- C. Unlikely

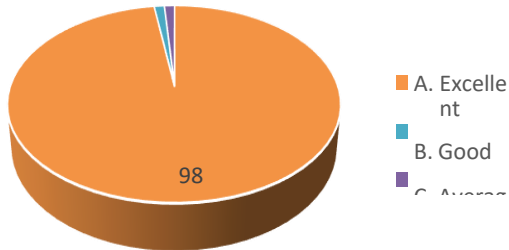
Que. 5.How satisfied are you with the practical sessions of the The **Add On Certificate Courses On Bio- entrepreneurship?**

- A. Very satisfied
- B. Satisfied
- C. Dissatisfied.

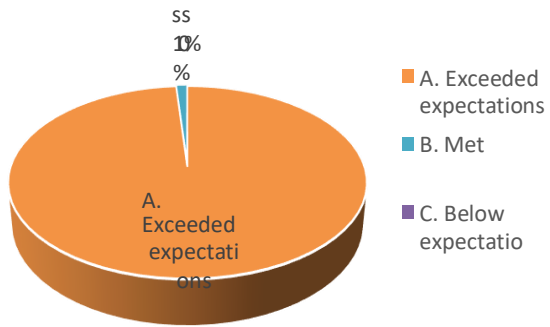


**Feedback Responses:**

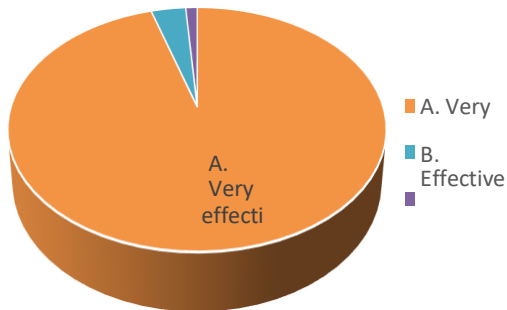
Que. 1 How would you rate the overall quality of the the Add On Certificate Courses On Bio-entrepreneurship?



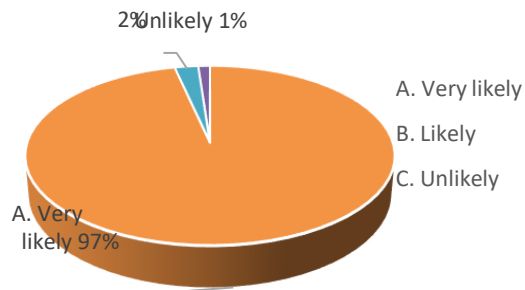
Que. 2 How well did the Certificate Add on Course Bioentrepreneurship meet your



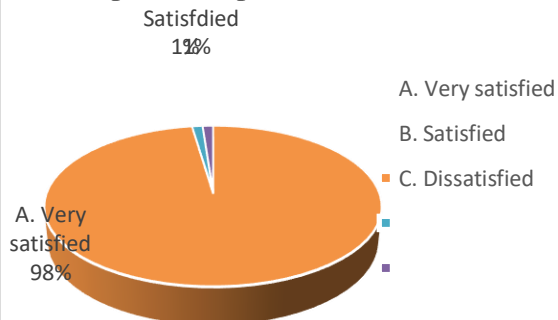
Que. 3 How effective were the course instructors in delivering the the Add On Certificate Courses On Bio-entrepreneurship ?



Que. 4 How likely are you to recommend the Add On Certificate Courses On Bioentrepreneurship others?



Que. 5. How satisfied are you with the practical sessions of the Addon Course Bioentrepreneurship



*Dr. Sapna Baghel*  
 Dr. Sapna Baghel  
 Course Co-ordinator



*Dr. Amitabh Halder*

Dr. Amitabh Halder  
 IQAC Coordinator  
 Internal Quality Assurance Cell (IQAC)  
 S. S. E. S. A. Science College  
 Congress Nagar, Nagpur.

*Prof. Mahendra Dhore*

Prof. Mahendra Dhore  
 Principal  
 S. S. E. S. Amravati's  
 Science College, Nagpur.