



Mahyco Research Foundation Trust's

**Badrinarayan Barwale Mahavidyalaya, Jalna.**

**NAAC Accredited 'A' Grade with CGPA - 3.19**

(On Permanent Non-Grant Basis)

महिको रिसर्च फाउंडेशन ट्रस्ट संचालित

**बद्रिनारायण बारवाले महाविद्यालय, जालना.**

(कायम विनाअनुदान तत्त्वावर)

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**PROSPECTUS**

**माहिती पुस्तिका**





## Our Source of Inspiration



**Dr. Badrinarayanji Barwale**  
(13<sup>th</sup> August 1931 - 24<sup>th</sup> July 2017)

## Management Committee

<b>Shri. Rajendraji Barwale</b>	Chairman
<b>Shri. Ramkisanji Mundada</b>	Member
<b>Dr. Usha B. Zehr</b>	Member
<b>Shri. Sureshji Agrawal</b>	Member
<b>Shri. Arunji Agrawal</b>	Member
<b>Smt. Savitaji B. Bagdia</b>	Member
<b>Dr. Kavita Prashar</b>	Principal / Member



## Shri. Rajendraji Barwale



Dear Students,

I am excited to welcome all of you to a new academic year as it provides us an opportunity to review the year gone by and address the upcoming academic year.

A new year comes with its own set of challenges and opportunities. New options are emerging in different areas and providing us an opportunity to change the way we impart education to our students.

It is heartening to see that the students and the faculty are adopting these changes with a great desire to excel in teaching and learning. However, it is very important to understand that adopting path-breaking changes requires acquisition of new skills, determination and hard work to imbibe the changes both on part of the faculty and the students. I also know that some of the students face challenges with options emerging in new areas.

Our management is very much seized of these challenges and is committed to adopting new tools & methods to ensure that our pursuit towards achieving excellence in imparting education continues unhindered. With the challenges we have, each one of us also has the responsibility to do our part in ensuring that we stay safe, behave in a manner to keep our community safe and be an example to others by demonstrating the right behaviors. I wish all of you good health and great success during these unfamiliar times.

All the very best to all of you for the new academic year.

## Dr. Usha Barwale Zehr



Dear Students,

As you begin a new year of your educational life at Barwale College, I want to wish you a very productive 2024-2025. College education is a big step for all of us and for it to bear maximum fruits, it requires full commitment and hard work from you as you are on the path to set your future careers and goals and dreams. Choose your subjects based on what you are passionate about and this is a big factor in your success and happiness. All of us, whether we come from the city or small villages, have similar opportunities for success so make the most of this opportunity and do your best. College is here to facilitate your journey during these times.

All the best for your studies in the coming year.



**Dr. Kavita Prashar**  
Principal



## PRINCIPAL'S MESSAGE...

Dear Students,

You are standing at a crossroads in your life where your decision is going to decide your future. I am sure that you have given enough time and thought to decide which faculty / branch to choose. Don't be in any dilemma. Talk to your parents / peers about it, tell them what your dreams are. Choose your faculty / branch only after understanding the challenges and opportunities in it because there is a big difference between how you studied so far and how you are going to study now. We welcome new education policy 2024-25 academic year & college run courses as per guidance of Dr. Babasaheb Ambedkar Marathwada University, Chhatrapati Sambhajnagar & the Government of Maharashtra.

We can't stop. We will have to make a strong adaptation strategy to make sure that we continue to follow our dreams. The college has actually taken a step further in using new teaching methods. Virtual class room is one of them. It is a necessary & not a temporary solution to the given situation. We have already started using, exploring e-learning / Virtual Classroom to its maximum effect.

# Mission

**Education plays a vital role in forming human society**

**Vision :** Setting excellence in the field of education with friendship, discipline, competition, team work, information, network and hardship.

- 👉 To act as bridge between students and society (for their overall development).
- 👉 To mould the personality of students with social responsibilities and human approach.
- 👉 To inculcate moral values which promote humanity, equality, integrity and patriotism among the students.
- 👉 To achieve excellence in higher education through modern technology and develop scientific attitude.
- 👉 To build youth for nation through value-based education.

**Objectives :**

Develop physical and academic interest among the students.

Develop self discipline and community life

Enhance the emotional and moral quotient.

**Admission :**

- A) Application Forms & Prospectus are available in the college office in between 9 a.m. to 4 p.m. (Lunch : 1.00-2.00).  
Apply for registration on or before ten days from the date of declaration of result of previous exams.
- B) Admission will be on merit basis and with the norms of Deptt. of Edn., Govt. of Maharashtra / Dr. BAMU, Chh. Sambhajinagar
- C) Application form duly filled is to be submitted with original and two xerox copies of documents.

**Code of Conduct :**

- ❖ The conduct of students in the college shall be such that it will not interfere with the orderly administration & discipline in the college, or cause any disturbances to fellow students.
- ❖ Students are expected to come to the college decently attired, If a student's dress, in the opinion of the Principal and staff members, is indecent and is detrimental to the best interests of the college appropriate disciplinary action may be taken against such a student.
- ❖ Ragging in any form is strictly prohibited in and around the campus & is punishable under law as per supreme court decision.
- ❖ Mobile phone are prohibited in college premises.
- ❖ No Associations / Organisation / Societies shall be formed in the college without the prior permission of the principal.
- ❖ Any official information related to college will be released to media only with the prior information of the college authorities.
- ❖ Any external interference related to college functioning and administration will not be permitted.
- ❖ Student will participate in the industrial visits/excursions/study tours at their own risk & will not hold the college responsible for any undue incidents or claim compensation for damage arising out of it.
- ❖ Students are expected to take care of the college property and to help in keeping the premises clean. Damage to the property of the college e.g. spitting, smoking, chewing tobacco, disfiguring walls, doors, breaking furniture, fittings, glasses is a breach of discipline & will attract severe punishment.
- ❖ Students are advised to carry with them their books, valuable and other belongings whenever they leave their classrooms/Laboratories/Library. The college is not responsible for any loss of student's property. Those who find lost property should deposit in the college office. The owner should claim the lost property at the college counter on the following day after due identification.
- ❖ Students are expected to read the notice boards daily for academic & administrative information.
- ❖ Matters not covered under the above mentioned instructions/rules & regulations shall rest with the discretion of the principal.

**Eligibility For B.Sc. Biotechnology (Integrated) & B.C.A. (Science) :** The candidate must have passed HSC with science having 50% Marks (45% for reserve category) in examination conducted by the HSC board, Government of Maharashtra or D.Pharm, Diploma in Agri., DMLT or an examination of any statutory university, board recognised as equivalent there to.

**Eligibility For M.Sc. Biotechnology :** Any Science Graduate, B.Sc. (Biotechnology / Microbiology / Biochemistry / Bioinformatics / Zoology / Botany / B.Sc. Agri Biotech. / Food Tech. / Pharmacy / BAMS / BDS / MBBS / BE Biotechnology). (Admission through Common Entrance Test - 2018-19 conducted by Dr. Babasaheb Ambedkar Marathwada University, Chh. Sambhajinagar.)



**Courses Offered :** B.Sc. Biotechnology (Integrated) B.C.A. M.Sc. Biotechnology

**M.Sc. Biotechnology Syllabus as per NEP**

**Semester - I**

**Semester - II**

Course Type	COURSE CODE	COURSE TITLE
Major Mandatory DSC	BIOT/MJ/500-T	Microbiology and Virology
	BIOT/MJ/500-P	Lab Course Based On BIOT/ MJ/500-T
	BIOT/MJ/501-T	Biomolecules and Bioenergetics
	BIOT/MJ/501-P	Lab Course Based On BIOT/ MJ/501-T
	BIOT/MJ/502-T	Inheritance Biology
	BIOT/MJ/502-P	Lab Course Based On BIOT/ MJ/502-T
	BIOT/MJ/503-T	Skills In Biotechnology I (Research Ethics, Communication Skills And IPR)
DSE (Choose any one from pool of courses)	BIOT/DSE/504 -AT	Techniques In Biotechnology
	BIOT/MJ/504- AP	Lab Course Based On BIOT/ MJ/504- AT
	BIOT/DSE/504-BT	Plant Biotechnology - I
	BIOT/DSE/504-BP	Lab Course Based On BIOT/ MJ/504- BT
	BIOT/DSE/504-CT	Bioinformatics and Big Data Analysis
	BIOT/DSE/504-CP	Lab Course Based On BIOT/ MJ/504- CT
	BIOT/DSE/504-DT	<b>Biopharmaceuticals Science</b>
	BIOT/DSE/504-DP	Lab Course Based On BIOT/ MJ/504- DT
	BIOT/DSE/504-E	(MOOC Course) Or any Online certification course from NPTEL /SWAYM /MOOC of equivalent credits {with biology basis}
	BIOT/RM/505	Research Methodology

Course type	Course Code	Course Name
Major Mandatory DSE	BIOT/MJ/550-T	Immunology
	BIOT/MJ/550-P	Lab Course Based On BIOT/ MJ/550- T
	BIOT/MJ/551-T	Enzyme Technology
	BIOT/MJ/551-P	Lab Course Based On BIOT/ MJ/551- T
	BIOT/MJ/552-T	Molecular Biology
	BIOT/MJ/552-P	Lab Course Based On BIOT/ MJ/552- T
	BIOT/MJ/553-T	Skills In Biotechnology II
DSE (Choose any one from pool of courses)	BIOT/DSE/554-AT	Cell & Developmental Biology
	BIOT/DSE/554-AP	Lab course based on BIOT/ DSE/554-AT
	BIOT/DSE/554-BT	Genomics and data Sciences
	BIOT/DSE/554-BP	Lab course based on BIOT/ DSE/554-BT
	BIOT/DSE/554-CT	Animal Biotechnology - I
	BIOT/DSE/554-CP	Lab course based on BIOT/ DSE/554-CT
	BIOT/DSE/554-DT	Drug Discovery and Development
	BIOT/DSE/554-DP	Lab course based on BIOT/ DSE/554-DT
	BIOT/DSE/554-E	(MOOC Course) Or any Online certification course from NPTEL/SWAYM /MOOC of equivalent credits with biology basis
	BIOT/ OJT/FP /555	On The Job Training/Field Project

**EXPLANATION OF CODE :** BIOT = BIOTECHNOLOGY, MJ = Discipline Specific core, Major/Mandatory, RM = RESEARCH METHADOTOGY, T = THEORY, P = PRACTICAL, 550-600 - COURSE CODE AS PER GUIDELINES

**EXPLANATION OF CODE :** BIOT = BIOTECHNOLOGY, MJ = Discipline Specific core, Major / Mandatory, RM = RESEARCH METHADOTOGY, T = THEORY, P = PRACTICAL, 500-549 - COURSE CODE AS PER GUIDELINES



Semester - III			Semester - IV		
Course type	Course Code	Course Name	Course type	Course Code	Course Name
Major Mandatory DSC	BIOT/MJ/600-T	Bioprocess Engineering	Major Mandatory DSC	BIOT/MJ/650-T	Industrial Technology
	BIOT/MJ/600-P	Lab Course Based On BIOT/MJ/600-T		BIOT/MJ/650-P	Lab Course Based On BIOT/MJ/650-T
	BIOT/MJ/601-T	Gene Expression		BIOT/MJ/651-T	Genetic Engineering and rDNA technology
	BIOT/MJ/601-P	Lab Course Based On BIOT/MJ/601-T		BIOT/MJ/651-P	Lab Course Based On BIOT/MJ/651-T
	BIOT/MJ/602-T	Bioinstrumentation		BIOT/MJ/652-T	Bioinformatics
	BIOT/MJ/602-P	Lab Course Based On BIOT/MJ/602-T		BIOT/MJ/652-P	Lab Course Based On BIOT/MJ/652-T
	BIOT/MJ/600-T	Skills In Biotechnology III (Medical Report Reading And Interpretation)			
DSE (Choose any one from pool of courses)	BIOT/DSE/554-A	Plant Biotechnology II	DSE (Choose any one from pool of courses)	BIOT/DE/653-A	Environmental Biotechnology
	BIOT/DSE/554-B	A I and System Biology		BIOT/DSE/654-B	Animal Biotechnology - II
	BIOT/DSE/554-C	Advanced Techniques in Biotechnology		BIOT/DSE/654-C	Synthetic Biology
	BIOT/DSE/554-D	Regulatory affairs or Entrepreneurship		BIOT/DSE/654-D	Pharmaceutical Biotechnology
	BIOT/DSE/554-E	(MOOC Course) Or any Online certification course from NPTEL/SWAYM /MOOC of equivalent credits {with biology basis}		BIOT/DSE/654-E	(MOOC Course) Or any Online certification course from NPTEL/ SWAYM/MOOC of equivalent credits {with biology basis}
RM	BIOT/RP/649	Research Project Stage I	RM	BIOT/ RP /699	Research Project Stage II

EXPLANATION OF CODE : BIOT = BIOTECHNOLOGY, MJ = Discipline Specific core, Major/Mandatory, RM = RESEARCH METHADOTOGY, T = THEORY, P = PRACTICAL, 600-649 - COURSE CODE AS PER GUIDELINES

EXPLANATION OF CODE : BIOT = BIOTECHNOLOGY, MJ = Discipline Specific core, Major / Mandatory, RM = RESEARCH METHADOTOGY, T = THEORY, P = PRACTICAL, 650-699 - COURSE CODE AS PER GUIDELINES

**B.Sc. Biotechnology First Year Syllabus As per NEP**

Semester - I		
Course Type	Course Code	Course Name
Major (Core) M1 Mandatory Biotechnology	DSC-1	Biomolecules-I
	DSC-2	Practical based on M1-DSC-1
Major (Core) M2 Mandatory	DSC-1	Instrumentation-I
	DSC-2	Practical based on M2-DSC-1
Major (Core) M3 Mandatory	DSC-1	Microbiology I
	DSC-2	Practical based on M3-DSC-1
Generic/Open Elective (GE/OE) (Choose any two from pool of courses) It should be chosen compulsorily from the faculty other than that of Major	GE/OE-1	To be chosen from other faculty
SEC (Skill Enhancement Courses) (Choose any one from pool of courses)	SEC-1	i) Microbial cultivation and Identification ii) Diagnostic Biology
	SEC-2	i) Practicals based on Microbial cultivation and Identification ii) Practicals based on Diagnostic Biology
AEC, VEC, IKS	AEC-1	English (Common for all the faculty)
	IKS-1	Choose any one from pool of courses
OJT/ FP/CEP/CC/RP	CC-1	Health and Wellness ( Common for all the faculty)

GE/OE-1 : Introduction to Biotechnology (This course will be available for the students from other faculty)

Semester - II		
Course Type	Course Code	Course Name
Major (Core) M1 Mandatory	DSC-3	Biomolecules-II
	DSC-4	Practical based on M1 DSC-3
Major (Core) M2 Mandatory	DSC-3	Instrumentation-II
	DSC-4	Practical based on M2 DSC-3
Major (Core) M3 Mandatory	DSC-3	Microbiology II
	DSC-4	Practical based on M3 DSC-3
Generic/Open Elective (GE/OE) (Choose any two from pool of courses) It should be chosen compulsorily from the faculty other than that of Major	GE/OE-2	To be chosen from other faculty
VSC (Vocational Skill Courses) (Choose any one from pool of courses)	VSC-1	i) Biofertilizers Production ii) Plant Tissue culture
	VSC-2	i) Practicals based on Biofertilizers Production ii) Practicals based on Plant Tissue culture
AEC, VEC, IKS	AEC-1	English (Common for all the faculty)
	VEC-1	Constitution of India (Common for all the faculty)
OJT/FP/CEP/CC/RP	CC-2	Yoga Education/Sports and Fitness (Common for all the faculty)

Exit Option : Award of UG Certificate in 3 Majors with 44 credits and an additional 4 / Internship OR continue with Major and Minor  
GE/OE-1 : Agricultural Biotechnology (This course will be available for the students from other faculty)



**B.Sc. Biotechnology Second Year Syllabus (CBCS Pattern)**

**Semester - III**

Course Type	Course Code	Course Title
Optional I Developmental Biology and Inheritance (DSC-III C) Core Courses	BIOT-311	Developmental Biology
	BIOT-312	Inheritance
	BIOTP-313	Lab course 31 (based on BIOT-311)
	BIOTP-314	Lab course 32 (based on BIOT-312)
Optional II Microbiology (DSC-III C) Core Courses	BIOT-321	General Virology
	BIOT-322	Basics of Immunology
	BIOTP-323	Lab course 33 (based on BIOT-321)
	BIOTP-324	Lab course 34 (based on BIOT-322)
Optional III Biochemistry (DSC-III C) Core Courses	BIOT-331	Basics of Enzymology
	BIOT-332	Animal physiology
	BIOTP-333	Lab course 35 (based on BIOT-331)
	BIOTP-334	Lab course 36 (based on BIOT-334)
Skill Enhancement course (SEC-I)	BIOTS-341	SEC-I A-Mushroom Cultivation SEC-I (B)- Culturing and Maintenance of Microorganism Any one skill to be chosen out of two SEC-I(A), SEC-I (B)
Ability Enhancement compulsory courses (AECC-3)	BIOT-351	Communication skills in English III
	BIOT-361	Marathi/Hindi/Urdu/Sanskrit A student can opt for any one of these languages(SL-III)

Total Credits for Semester III : 29 ( Theory : 20, Laboratory : 9 )

**Semester - IV**

Course Type	Course Code	Course Title
Optional I Cell biology and Plant Physiology (DSC-ID) Core Courses	BIOT-411	Cell Biology
	BIOT-412	Plant Physiology
	BIOTP-423	Lab course 41 (based on BIOT-41 1 )
	BIOTP-424	Lab course 42 (based on BIOT-412)
Optional II Genetics and Molecular Biology ( DSC-IID) Core Courses	BIOT-421	Genetics
	BIOT-422	Central Dogma
	BIOTP-423	Lab course 43 (based on BIOT-41 1 )
	BIOTP-424	Lab course 44 (based on BIOT-412)
Optional III Advanced Biology (DSC-IIID) Core Courses	BIOT-431	Advanced Enzymology
	BIOT-432	Advanced Immunology
	BIOTP-433	Lab course 45 (based on BIOT-41 1 )
	BIOTP-434	Lab course 46 (based on BIOT-412)
Skill Enhancement course ( SEC-2)	BIOTS-441	SEC-2 (C) Diagnostic Biology SEC-2 (D) Agriculture Biotechnology Any one skill to be chosen out of two SEC-2(C), SEC-2 (D)
Ability Enhancement compulsory courses (AECC-4)	BIOT-451	Communication skills in English-IV
	BIOT-461	Marathi/Hindi/Urdu/Sanskrit A student can opt for any one of these languages ( SL-IV)
Additional credits	BIOT-471	Environmental Studies

Total Credits for Semester IV : 29 (Theory : 20, Laboratory : 9)





**B.Sc. Biotechnology Third Year Syllabus (CBCS Pattern)**

**Semester - V**

Course Type	Course Code	Course Title
Optional Advanced Biotechnology-(DSE-1A) Discipline Specific Core Course	BIOT-511	Regulation of gene expression
	BIOT-512	Principles of Genetic Engineering
	BIOTP-513	Lab course 51 (based on BIOT-511)
	BIOTP-514	Lab course 52 (based on BIOT-512)
Optional-II Frontier Biotechnology-y-I (DSE-IA) Discipline Specific Core Course	BIOT-521	Bioprocess engineering
	BIOT-522	Bioinformatics-I
	BIOTP-523	Lab course 53 (based on BIOT-521)
	BIOTP-524	Lab course 54 (based on BIOT-522)
Optional-III Applied Biotechnology-1 (DSE- IA) Discipline Specific Elective	BIOT- 531	DSE-531 A1-Industrial fermentations-I B1-Metabolism of macromolecules (Select any one paper from A 1/B 1)
	BIOT-532	DSE-532 A2 Animal cell culture I B 2 Plant tissue culture I (Select any one paper from A2/B2)
	BIOT-533	Lab course 55 (based on BIOT-531)
	BIOT-534	Lab course 56 (based on BIOT-532)
Skill Enhancement course (SEC-3)	BIOT-54 I	SEC-3 E-Advanced chromatography F-Cancer Biology Any one skill to be chosen out of two SEC-3(E), SEC-3 (F)

Total Credits for Semester V : 23 (Theory : 14, Laboratory : 09)

Total Credits for three years : Sem.-I (22.5) + Sem.-II (22.5) + Sem.-III (29) + Sem.-IV (29) + Sem.-V (23) + Sem.-VI (23) = 149 Credits

**Semester - VI**

Course Type	Course Code	Course Title
Optional-I Advanced Biotechnology II (DSE-1B) Discipline Specific Core Course	BIOT- 611	Recombinant DNA technology
	BIOT- 612	Bioinformatics-II (Genomics and Proteomics)
	BIOT- 613	Lab course 61 (based on BIOT-611)
	BIOT- 614	Lab course 62 (based on BIOT-612)
Optional-II (DSE-IB) Frontier Biotechnology-II Discipline Specific Core Course	BIOT- 621	Fermenter : Design, types and operations
	BIOT- 622	Clinical Biochemistry
	BIOT- 623	Lab course 63 (based on BIOT-621)
	BIOT- 624	Lab course 64 (based on BIOT-622)
Optional-III Applied Biotechnology-II (DSE-IB) Discipline Specific Elective	BIOT- 631	DSE-631 A3 Industrial fermentations-II B3 Bio pesticides (Select any one paper from A3/B3)
	BIOT- 632	DSE-632 A 4 Animal cell culture I B 4 Plant tissue culture I (Select any one paper from A4/B4)
	BIOT- 633	Dissertation in Lieu of lab course 65& 66 (based on BIOT-631&632)
Skill Enhancement course (SEC-4)	BIOT- 641	EC-4 Any one skill to be chosen out of two SEC-4(G) Advanced Microscopy SEC-4 (H) Fermented Foods

Total Credits for Semester VI : 23 (Theory : 14, Laboratory : 09)

**M.Sc. Chemistry**

**FIRST YEAR (Semester-I)**

COURSE CODE	COURSE TITLE
CHET/MJ/500	DSC-1 Analytical Chemistry
CHET/MJ/501	DSC-2 Inorganic Chemistry
CHET/MJ/502	DSC-3 Organic Chemistry
CHET/MJ/503	DSC-4 Physical Chemistry
CHEL/MJ/504	DSC-5 Inorganic Chemistry
CHEL/MJ/505	DSC-6 Organic Chemistry Lab Course
CHEL/MJ/506	DSC-7 Physical Chemistry Lab Course
CHETE/SE/507	DSE-1 Analytical Chemistry
CHETE/SE/508	DSE-2 Inorganic Chemistry
CHETE/SE/509	DSE-3 Organic Chemistry
CHETE/SE/510	DSE-4 Physical Chemistry
CHETE/SE/511	DSE-5 Drug Chemistry
CHE/RM/512	Research Method

**FIRST YEAR (Semester-II)**

COURSE CODE	COURSE TITLE
CHET/MJ/550	DSC-8 Analytical Chemistry-I
CHET/MJ/551	DSC-9 Inorganic Chemistry
CHET/MJ/552	DSC-10 Organic Chemistry
CHET/MJ/553	DSC-11 Physical Chemistry
CHEL/MJ/554	DSC-12 Inorganic Chemistry Lab Course
CHEL/MJ/555	DSC-13 Organic Chemistry Lab Course
CHEL/MJ/556	DSC-14 Physical Chemistry Lab Course
CHETE/SE/557	DSE-6 Analytical Chemistry
CHETE/SE/558	DSE-7 Inorganic Chemistry
CHETE/SE/559	DSE-8 Organic Chemistry
CHETE/SE/560	DSE-9 Physical Chemistry
CHETE/SE/561	DSE-10 Drug Chemistry
CHEOJT-562	On the job training
CHEFP-563	Field Project



**SECOND YEAR (Semester-III)**

**Specialization Subject : Organic Chemistry**

COURSE CODE	COURSE TITLE
OCHET-600	DSC-15 Organic Chemistry
OCHET-601	DSC-16 Organic Chemistry
OCHET-602	DSC-17 Organic Chemistry
OCHET-603	DSC-18 Organic Chemistry
OCHET-604	DSC-19 Organic Chemistry
OCHEL-605	DSC-20 Organic Chemistry Lab Course
OCHEL-606	DSC-21 Organic Chemistry Lab Course
OCHETE-607	DSC-9 Organic Chemistry
OCHETE-608	DSE-10 Organic Chemistry
OCHETE-609	DSE-11 Organic Chemistry
OCHETE-610	DSE-12 Organic Chemistry
OCHE-RP-649	Research Project-1

**SECOND YEAR (Semester-IV)**

**Specialization Subject : Organic Chemistry**

COURSE CODE	COURSE TITLE
OCHET-650	DSC-20 Organic Chemistry
OCHET-651	DSC-21 Organic Chemistry
OCHET-652	DSC-22 Organic Chemistry
OCHET-653	DSC-23 Organic Chemistry
OCHET-654	DSC-24 Organic Chemistry
OCHEL-655	DSC-25 Organic Chemistry Lab Course
OCHETE-656	DSC-13 Organic Chemistry
OCHETE-657	DSE-14 Organic Chemistry
OCHETE-658	DSE-15 Organic Chemistry
OCHETE-659	DSE-16 Organic Chemistry
OCHETE-699	Research Project-2

**General Outline of Courses BCA Science**

**Semester I**

COURSE CODE	COURSE TITLE
DSC-1	Fundamentals of Computer Application
DSC-2	C-Programming-I
DSC-5	Operating System-I
SEC-1	(A) Animation Designing (B) Graphics Designing

**Semester II**

COURSE CODE	COURSE TITLE
DSC-7	Data Structures-I
DSC-9	C-Programming-II
DSC-11	Operating System-II
VSC-1	(A) PC Maintenance-I (B) Office Tools-I

**Semester III**

COURSE CODE	COURSE TITLE
1	Programming Using C++
2	Relational Database Management System
3	Linux Operating System
4	Advanced Data Structure
5	Computational Statistics
6	Web Fundamental (A) Office Automation (B) Critical Thinking

**Semester IV**

COURSE CODE	COURSE TITLE
DSC-7	Core Java
DSC-9	Data Warehousing
DSC-11	Computer Networks
VSC-1	Software Engineering Data Analytics Open Source Web Application Development (A) Basic Python Programming (B) Emotional Intelligence

**Semester V**

COURSE CODE	COURSE TITLE
CA501-T	Software Project Management-II
CA502-T	Computer Graphics-I
CA503-T	Core JAVA-II
CA504-T	Data Warehouse
CA505-T	Ethical Hacking
CA506-T	Data Communication Networking
CA507-T	Beginning with PHP Programming
CA508-T	ASP.NET-1

**Semester VI**

COURSE CODE	COURSE TITLE
CA601-T	Software Testing & Quality Assurance
CA602-T	Computer Graphics-II
CA603-T	Java Server Pages (JSP)
CA604-T	Data Mining
CA605-T	Network Security
CA606-T	Cloud Computing
CA607-T	Advanced Programming with PHP
CA608-T	ASP.NET-II



**B. Com.**

**First Year**

**Semester I**

COURSE CODE	COURSE TITLE
DSC-1	Financial Accounting- I
DSC-2	Principles of Management- I
DSC-3	Entrepreneurship Development- I
GE/OE-1	(1) Basic of Accounting (2) Basic of Finance (3) Basic of Entrepreneurship
SEC-1	(1) Office Automation Tools-1 (2) Personal Finance & Planning
AEC-1	English
IKS-1	To be offered by University
CC-1	Health & Wellness (To be offered by University)

**Semester II**

COURSE CODE	COURSE TITLE
DSC-4	Financial Accounting- II
DSC-5	Principles of Management- II
DSC-6	Entrepreneurship Development- II
GE/OE-2	(1) Basic of Marketing (2) Fundamentals of Stock Market (3) Functions of Business Management
SEC-2	(1) Application Spreadsheet Software (2) Business Documents
AEC-2	English/Hindi/Marathi/Pali/Urdu/Sanskrit
VEC-1	Constitution of India (To be offered by University)
CC-2	Yoga Education/Sports & Fitness (To be offered by University)

**Second Year**

**Semester III**

COURSE CODE	COURSE TITLE
COM-301	English
COM -136	Additional English
COM-303	Corporate Account-I
COM-304	Cost Account-I
COM-305	I.T. Application in Business-III
COM-306	GST Account-I
COM-307	Banking

**Semester IV**

COURSE CODE	COURSE TITLE
COM- 401	English
COM-137	Additional English
COM-403	Corporate Account-II
COM-404	Cost Account-II
COM-405	I.T. Application in Business-IV
COM-406	GST Account-II
COM-408	Insurance

**Third Year**

**Semester V**

COURSE CODE	COURSE TITLE
COM-501	Advanced Financial Accounting –I
COM-502	Management Accounting-I
COM-503	Auditing
COM-504	Business Regulatory Framework- I
COM-505	Computerized Accounting-I
COM-509	MSME Management

**Semester VI**

COURSE CODE	COURSE TITLE
COM-601	Advanced Financial Accounting –II
COM-602	Management Accounting-II
COM-603	Direct Tax
COM-604	Business Regulatory Framework- II
COM-605	Computerized Accounting-II
COM-606	Capital Market



### FEES STRUCTURE

Sr. No.	Particulars	M.Sc. Bio. Tech		M.Sc. Chemistry		B.Sc. Biotechnology			B.C.A. Science			B.Com		
		I Year	II Year	I Year	II Year	I Year	II Year	III Year	I Year	II Year	III Year	I Year	II Year	III Year
01	Registration Fees	25	25	25	25	25	25	25	25	25	25	25	25	25
02	Tution Fees	23000	23000	11000	11000	8050	8050	8050	14950	14950	14950	1760	1760	1760
03	Library Fees	50	50	50	50	50	50	50	50	50	50	50	50	50
04	Laboratory Fees	6900	6900	6600	6600	5750	5750	5750	11500	11500	11500	330	330	330
05	Entrance Fees / Entry Fees	50	50	50	50	50	50	50	50	50	50	50	50	50
06	Gyamkhana Fees	50	50	50	50	50	50	50	50	50	50	50	50	50
07	Extra Curriculam Activity Fees	56	56	56	56	56	56	56	56	56	56	56	56	56
08	College Magazine Fees	50	50	50	50	50	50	50	50	50	50	50	50	50
09	Computer Training Fees	50	50	50	50	50	50	50	50	50	50	50	50	50
10	University Development Fees	110	110	110	110	110	110	110	110	110	110	110	110	110
11	University Sports Fees	10	10	10	10	10	10	10	10	10	10	10	10	10
12	University Ashwamedh Fees	4	4	4	4	4	4	4	4	4	4	4	4	4
13	University Aid Fund	15	15	15	15	15	15	15	15	15	15	15	15	15
14	University Students Assistance / Welfare Fund	20	20	20	20	20	20	20	20	20	20	20	20	20
15	University Students Insurance Fund	10	10	10	10	10	10	10	10	10	10	10	10	10
16	Youth Festival Charges	0	0	0	0	0	0	0	0	0	0	0	0	0
17	Students ID Charges	100	100	100	100	100	100	100	100	100	100	100	100	100
18	Enrolment Fees / Elig. Fees	50	0	50	0	50	0	0	50	0	0	50	0	0
19	Project Fees / E-Suvidha	0	0	0	0	0	0	0	0	0	0	0	0	0
20	Semister Fees	75	75	75	75	75	75	75	75	75	75	75	75	75
21	Session Fees	0	0	0	0	100	0	0	0	0	0	100	0	0
22	Study Tour	0	0	0	0	0	0	0	0	0	0	0	100	0
23	Environment & Comp. Sci. Fees	0	0	0	0	0	0	0	0	0	0	0	0	0
	Full Fees	30625	30575	18325	18275	14625	14475	14475	27175	27125	27125	2915	2865	2765
	C.R.S.M.S.S.S.	7625	7575	7325	7275	6575	6425	6425	27175	27125	27125	1155	1105	1005
	GOI	250	250	250	250	250	250	250	250	250	250	250	250	250

**Remember :**

**Identity Card :** It is an important document. Every student is required to take a good care of it & must carry it with oneself. Student should collect their I/C within one week of the admission.

Student are required to produce it on demand on the college campus, in the Library & at any college event & also in examination hall.

**Attendance :** Attendance for all lectures, tutorials, practical's & college functions is compulsory.

**Discipline :** Self discipline is the best discipline. All students are expected to observe rules & regulations of the college for smooth working. During the lectures, practical's students should not wander in the corridors or in & around the premises of the college.

❖ Addhar card is necessary for GOI students.

❖ Students are directed not to bring any outsider into college premises.

❖ Students are directed not to collect any fund from other students or from outsider without written prior permission from the principal.

❖ No notice, Posters, Banners can be put or pasted anywhere in the college premises without the prior permission from the Principal.

❖ Smoking or Chewing of Pan or Ghutka is strictly prohibited in the college premises. ❖ Ragging is prohibited by Act. ❖ Mobile Phones are prohibited in college premises. ❖ Uniform is compulsory for students.

❖ Any changes implented by the Dr. Babasaheb Ambedkar Marathwada University, Chh. Sambhajinagar will be followed.

**Important Note :** Students should keep sufficient number of photovopies of original documents with them as original documents & attached photocopies will not be returned at any condition.

**Eligibility Certificate :** Students who have passed their H.S.C. from Marathwada region will be charged Rs. 50/- those from other boards (Pune board, Amrawati board etc.) will be charged Rs. 100/- those from other state Rs. 500/- & students who are from foreign boards / universities will be charged Rs. 12,500/- as eligibility fee. This fee is charged by the university. In addition to the fee the students from other universities / boards will have to produce migration certificate by applying through proper channel. Application from for elegibility certificate should be submitted along with the admission from.

**Special Note :** Computer Course : It is mandatory for the students to complete 100 hours of computer course during degree period in the college except for those who have computer as their optional or compulsory subject & those have completed MS-CIT. Failing to complete the said course, the student will not be allowed as per university rules, to attempt the final examination.

**Environment Science :** It is mandatory for all the students to complete environment science course of 100 marks during their degree course failing which they will not be allowed as per university rules, to attempt the final examination.

**Note :** Separate free will be charged for each of the above course as per university rules.

**Examination :** Examinations are conducted as per the instructions of the board or the university. Any charges introduce by the board or the university regarding examination will be mandatory for the students.

**Admission Cancellation & free Refund Procedure :** If a student cancels his/her admisson within 10 days then he/she must pay 10% of tuition fees. After that date to the end of semester first/third, he/she must pay 50% tuition fee for cancelling admission & after that date he/she should pay full tuition fees. Admission once cancelled, will be for the whole academic year.



Shot on OnePlus  
By Prityadarshan Bhave

7/21/23  
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