

Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon
 FACULTY OF SCIENCE AND TECHNOLOGY, PGDEGREE (M.Sc.) PROGRAMME
 Credit distribution structure for Two Years/One Year PG M.Sc. (Computer Science) Degree Programme

BoS: Computer Science

Teaching and Examination scheme, Master of Science M.Sc. (Computer Science)

M.Sc. [Level 6.0] Sem-II (Name of Courses for-Major, RM, OJT, RP courses) **WEF 2023-24**

Sr. No.	Course Category	Name of the course(Title of the Paper)	Total Credit	Hours/ Semester	Teaching Scheme (hrs/week)		Evaluation Scheme		
					Theory	Practical	Continuous Internal Evaluation (CIE)(CA)	End Semester Evaluation (ESE)(UA)	Duration of Examination (Hrs)
					T	P			
1	DSC	CS-421: Data Warehousing and Data Mining [T]	4	60	4	--	40	60	3.00
		CS-422: Angular JS [T]	2	30	2	--	20	30	2.00
		CS-423: Compiler Construction [T]	4	60	4	--	40	60	3.00
		CS-424: Lab on Data Warehousing and Data Mining [P]	2	60	--	4	20	30	2.00
		CS-425: Lab on Angular JS [P]	2	60	--	4	20	30	2.00
2	DSE (Any One Group)	CSE-426 (A1): Web Analytics [T]	2	30	2	--	20	30	2.00
		CSE-426 (A2): Lab on Web Analytics [P]	2	60	--	4	20	30	2.00
		OR							
		CSE-426 (B1): Soft Computing [T]							
CSE-426 (B2): Lab on Soft Computing [P]									
3	FP/OJT,RP	CS-427: Field Project /On Job Training	4	120	--	8	40	60	3.00
Total			22	480	12	20	220	330	

Kavayitri Bahinabai Chaudhari North Maharashtra University Jalgaon
M. Sc. Part-II Organic Chemistry (Sem-III and IV)
Choice Based Credit System (Outcome Based Curriculum)

Semester-III

Course Code	Course Type	Title of the Course	Contact hours/week			Distribution of Marks for Examination						Credits
						Internal		External		Total		
			Th	Pr	Total	Th	Pr	Th	Pr	Th	Pr	
CH-350	Core	Organic Reaction Mechanism	04	--	04	40	--	60	--	100	--	04
CH-351	Core	Spectroscopic Methods in Structure Determination	04	--	04	40	--	60	--	100	--	04
CH-352	Core	Organic Stereo Chemistry	04	--	04	40	--	60	--	100	--	04
CH-353	Elective	Choose one out of two CH-353 A/B (A) Heterocyclic Chemistry (B) Green Chemistry	04	--	04	40	--	60	--	100	--	04
AC-301 (A) (B)/(C)/(D)	Audit Course	Choose one out of four (AC-301 A/B/C/D) (Technology + Value Added Course)	02	--	02	100	--	--	--	100	--	02

List of Audit courses to be offered in Semester-III:

AC-301 (A): Computer Skills

AC-301 (C): Molecular Docking

AC-301 (B): Cyber Security

AC-301 (D): Technical Report Writing

Semester-IV

Course Code	Course Type	Title of the Course	Contact hours/week			Distribution of Marks for Examination						Credits
						Internal		External		Total		
			Th	Pr	Total	Th	Pr	Th	Pr	Th	Pr	
CH-450	Core	Chemistry of Natural Products	04	--	04	40	--	60	--	100	--	04
CH-451	Core	Synthetic Methods in Organic Chemistry	04	--	04	40	--	60	--	100	--	04
CH-452	Elective	Choose one out of two CH-452 A/B (A) Drug Chemistry (B) Applied Organic Chemistry	04	--	04	40	--	60	--	100	--	04
*CH-O-2	Core Skill base	Organic Chemistry Practical Course-II	--	12	12	--	40	--	60	--	100	06
*CH-O-3	Core Skill base	Organic Chemistry Practical Course-III	--	12	12	--	40	--	60	--	100	06
*CH-O-4	Core Skill base	A Short Research Project	--	12	12	--	40	--	60	--	100	06

CH-O-4: A Short Research Project
(180Hrs, 100 Marks and 6 Credits)

Course Objectives:

CO-1. To make students familiarize themselves with the techniques such as synthesis, isolation, purification and characterization/analysis etc.

CO-2. To introduce students on how to generate new ideas based on literature survey and their Execution.

CO-3. To foster the self-confidence amongst the students to think and execute ideas Independently.

The project is allotted during the third semester. The students will get an opportunity to become a part of ongoing research activities in the respective supervisor's laboratory. This should make them familiar with the literature survey and the fundamental understanding of how to devise research methodology. It is expected that the student should learn the synthesis, isolation, purification and characterization techniques whatever applicable for their projects. Students whose projects are dependent on the instruments are expected to know SOP and their working principles. Full flexibility is given to the student in identifying the project depending on the resources and infrastructure available in the host organization. It is recommended to work on multidisciplinary projects but not mandatory. In any case, not more than 2-3 students should involve in the same project.

The systematic approach towards the execution of the project should be as follows:

1. Selection of topic relevant to priority areas of chemistry and allied sciences
2. Literature survey and devising research methodology based on the gaps in the literature
3. Good laboratory practices: Safety, MSDS, disposal of chemical waste etc.
4. Execution of the project by designing and performing suitable experiments
5. Interpretation of results and drawing important conclusions
6. To prepare a PowerPoint presentation using modern ICT tools
7. Students should present their research work in Avishkar/Webinars/Conferences
8. Maintaining lab notebooks and writing monthly progress report
9. Writing a dissertation with following components in a given order: Title of the Project, Certificates, Acknowledgement, Abstract and Keywords, Contents, Introduction, Literature, Aim of the Project, Materials and Methods, Results and Discussion, Conclusions and Future Perspectives, Contributions, Bibliography and References. Total three bound copies of the dissertation should be prepared (library, guide and student: each one copy). Student should note that plagiarism is strictly prohibited. Beside writing dissertation, students should write a manuscript/patent if the results obtained are worthy of publication.

10. Presentation during the university examination
11. The complete tenure of research project should be of one year. It should start at the third semester and will be end by the semester fourth.
12. Student should submit two progress report within the span of the project.
13. Student should be encouraged for applied and contemporary research work.
14. Weekly two days should be allotted to research project in a regular time table.
15. Each research group should not have more than four students.
16. Each research group should have different research topic

It highly recommended that the students should apply for the Summer Research Fellowship Programmes initiated by Science Academies of India - IAS, INSA, NASI. Similarly, there exist several other summer internship opportunities in the national institutes, reputed universities and industries. Students should explore these possibilities immediately after the completion of the second semester (M. Sc., Part - 1) meaning that applications should be sent much earlier. The exposure gained during the summer internship should build enough confidence amongst students to identify the right research project and its execution.

Examination Assessment (100 Marks):

Internal Examination (Internal Assessment) - 40 marks:

Activity	Marks
Submission of progress reports signed by supervisor (at least 2 reports, 05 marks per report)	10
Outline of research work: - literature collected, experiment planning and design	08
Experimental work performed	08
Subject/topic related one workshop/course/instrumentation training (online/offline),	10
Regular attendance maintained by Research Supervisor	04

External Examination (External Assessment) - 60 marks:

Activity	Marks
Selection of topic of project work	05
Literature review	05
Characterization of intermediates / products	10
Overall quality of dissertation	10
Power point presentation	15
Oral discussion	10
Conference / Industrial Visit / Avishkar Participation	05

Suggested readings: Reference Books/Reviews/Journal Papers as suggested by the supervisor.

Course Outcomes (COs):		
Upon the completion of course, the student should be able:		
CO No.	CO	Cognitive level
1	To generate new research ideas based on the comprehensive literature survey	3
2	To acquire skill to execute the research project independently	2
3	To expertise in synthesis techniques and execution of research ideas would make the student quickly employable; either in industries or in academia for pursuing higher studies	4

KBC North Maharashtra University, Jalgaon

Class: T. Y. B. Sc.

Subject: Electronics

Choice Base Credit System (With effect from June 2020)

The Board of Studies in Electronics in its meeting has unanimously accepted the revised syllabus (as per CBCS pattern) prepared by different committees, discussed, and finalized for T.Y.B.Sc. The titles of the papers for T.Y.B.Sc. (Electronics) are as given below:

Structure of curriculum of T. Y. B. Sc. (Electronics)

Semester V

Discipline	Course Type	Course Code	Course title	Credits	Hours/week (Clock hours)	Total Teaching hours	Marks (Total 100)	
							CA	UA
DSC	Core I	ELE-501	Semiconductor Electronics	3	3	45	40	60
	Core II	ELE-502	Advanced Digital System Design using VHDL	3	3	45	40	60
	Core III	ELE-503	Advanced Microprocessors	3	3	45	40	60
	Core IV	ELE-504	Electronic Instrumentation	3	3	45	40	60
DSC Skill Enhancement Course (SEC)	Skill Based	ELE-505	Medical Electronics	3	3	45	40	60
DSC Elective course	Elective Course (Any one)	ELE-506 (A)	Embedded C	3	3	45	40	60
		ELE-506 (B)	Basics Fiber Optic Communication					
DSC	Core (Practical)	ELE-507	Practical Lab I	2	4 (per batch)	60	40	60
		ELE-508	Practical Lab II	2	4 (per batch)	60	40	60
		ELE-509	Project Part I	2	4 (per batch)	60	40	60
Non Credit Audit Course	Elective audit course (Any one)	AC-501 : A	NSS	No credit	2	30	100	--
		AC-501 : B	NCC					
		AC-501 : C	Sports					

Sem	Course type	Course code	Course title	Credits	Total hrs /week	Total teaching periods	Total marks	
							CA	UA
VI	Discipline specific Course (DSC)	PHY 601	Quantum mechanics	3	3	45	40	60
		PHY602	Material Science	3	3	45	40	60
		PHY 603	Nuclear Physics	3	3	45	30	60
		PHY 604	Modern Physics	3	3	45	40	60
	Skill Enhancement course (SEC)	PHY 605	Basic Instrumentation Skills	3	3	45	40	60
	DSE Elective course (Any one)	PHY 606 (A) PHY 606 (B) PHY 606 (C) PHY 606 (D) PHY 606 (E)	Technical Electronics- I or Refrigeration and Air conditioning- II or Vacuum Technology-II or Microprocessor-I or Programming in C++ II	3	3	45	40	60
	DSC CORE Practicals	PHY 607	Physics Practical I	2	4 (per batch)	60	40	60
		PHY 608	Physics Practical II	2	4 (per batch)	60	40	60
		PHY 609	Physics Practical III or Project	2	4 (per batch)	60	40	60
	Non credit audit course (Any one)	AC 601(A)	Soft skill	No credit	2	30	10	0
AC 601(B)		Yoga						
AC 601(C)		Practicing Cleanliness						
			Total credit	24				

Note: The industrial/study tour is compulsory for students of T. Y. B. Sc. (Physics).

Semester VI: (LAB): Physics paper VIII
PHY 609: Project II

(Credits: 02): (60 L, 100M (40 Internal + 60 External))

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ASSESSMENT OF PROJECT- SECOND TERM:

Student should submit a Final Project Report on the work done by him/her during the First and Second Phase of the Project i.e. on the topics:

1. Experimental work. (remaining further work in continuation with the work in the first term)
2. Characterize the samples, if any.
3. Discussion of the results.
4. Conclusions.

Instructions:

1. The topic of project of the first term must be continued in the second term.
2. The project report of first term should be maintained and should be produced to examiner of second term.
3. The student will have to give a seminar on the project topic in the practical exam.
4. The student must perform his project presentation by PPT on LCD projector.



North Maharashtra University, Jalgaon
Faculty of Science and Technology
BACHELOR OF COMPUTER APPLICATIONS (BCA)
BCA 607 - Project Report & Viva
w.e.f. 2019-20
Total Lectures: 60
[Total Marks: 60 External + 40 Internal =100 Marks]

Objective: – To prepare students to use applications of the theory and practical learned during the course.

PROJECT WORK

1. Each student shall have to carry out the project work based on System Development which may include Application Program, Database Management System, Web Based Application, Smart phone Application, System Tools, Network System Application, etc. A project may be carried out at any outside organization or on a sub system of an organization.
2. The project work should be carried out individually. No group work is allowed in the Project work. The project title should not be repeated.
3. The topic of the project should be decided with the consultation & guidance of an internal guide-teacher of the institute/college. The project should be necessarily innovative and problem solving. No teacher shall be entrusted with more than 15 students for guidance and supervision.
4. The student should clearly mention the need of project , database(s), files required for the project, DFD , Normalization, ERD, software used for the project, reasons for selection of that software, inputs required, outputs produced etc.
5. The application should be menu driven and should provide the facilities of storage of data, modifications in existing data, deletion of unwanted data, and viewing of data.
6. The student has to write a report based on the actual work undertaken during the vacations at the specific selected enterprise/ organization or sub system and get it certified by the concerned teacher that the Project report has been satisfactorily completed and submit TWO typed copies of the same to the Head / Director of the institute /Principal of the college.
7. One copy of the report submitted by the student shall be forwarded to the University by the Institute.
8. No student will be permitted to appear for Viva-Voce examinations, unless and until the project report is submitted within the stipulated time.

Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon

New Syllabus (CBCS Pattern) W.E.F June 2020

TYBA Sem.: VI

Gg. 363 (DSE 4B) Practical in Physical Geography

(Work load - 06 Periods Per Week Per Batch of 12 Students)

Total Marks: 60

Credit Points: 03

Total Clock Hours: 90

Objectives:

1. To introduce the students with SOI toposheets and to acquire the knowledge of toposheet Reading / interpretation.
2. To acquaint the students with IMD weather maps and to gain the knowledge of weather map reading/ interpretation.

Sr. No.	Unit	Sub Unit	Clock Hours
1	Elements of Topographical Map Reading	1.1 Arrangement of Toposheet On Map of India i) Indexing of Topographical Map 1.2 Marginal Information and Grid References i) Marginal information ii) Grid reference: Four and six figure . 1.3 Conventional Signs and Symbols on Indian Topographical Map	25
2	Interpretation of SOI Toposheets and Drawing of profiles	2.1 Relief Features By Contours a) Conical Hill b) Plateau c) Ridge d) Gorge e) U Shaped Valley f) V Shaped Valley g) Waterfall Slopes : Concave and Convex Slopes , Gentle and Steep Slopes, Terraced Slope. 2.2 Map Interpretation: Interpretation of Topographical Maps (Minimum any two of the following). i) Mountainous/Hilly Region ii) Plateau Region iii) Plain Region 2.3 Profiles:- Drawing of Longitudinal Profile, Cross Profile.	30
3	Interpretation of I.M.D Weather Maps	3.1 Introduction to I.M.D. Weather map 3.2 Signs and Symbols Used in the I. M. D. Weather Map. 3.3 Isobaric Patterns:	25

		i) Cyclone ii) Anti-Cyclone iii) Trough of low pressure iv) Wedge/Ridge v) Col vi) Secondary depression 3.4 Study and Interpretation of Weather Maps of Following Seasons (Minimum any two of the following). i) The Monsoon Season ii) The Winter Season iii) The Summer Season	
4	Study Tour/Village Survey	Preparation of Green Audit Report of Your College or Any Place/Tour Report/ Village Survey and Preparation of Journal	10

Note : The educational tour / Village Survey /visit to any place should be conduct and organize by the direction of Maharashtra Govt. rules and regulations and prior permission of college authority.

Weightages of Marks	
Units	Marks
1	15
2	10
3	15
4	10
Journal and Viva Voce	10
University Assessment	60
College Assessment	40

References:

- 1 Singh, R. L. and Singh R.P.B. (1972): Elements of Practical Geography; Kalyani Publication.
- 2 Khan, MD.Z.A. (1998): Text Book of Practical Geography; Concept Publishing Company.
- 3 Monkhouse F.J. and Wilkmon. H.R. (1971): Maps and Diagrams B.L. publications private limited, New Delhi.
- 4 Ahmed, L. (1994): Practical Geography, Jawahar Publishers and Distributers, New Delhi.
- 5 Sarkar, A. (1997): Practical Geography: A systematic approach, Oreet Longman Ltd, Hyderabad.
- 6 Singh, Gopal, (1998): Map Work and Practical Geography.

SYLLABUS FOR M.A. (PSYCHOLOGY) PART-II
CHOICE BASED CREDIT SYSTEM (CBCS) AND OLD PATTERN

EQUIVALENT COURSE CHART

SEMESTER-III

New Syllabus from June 2022 (CBCS Pattern) Semester-III			Old Syllabus from June 2017 Semester-III		
Paper	Paper Code AND No. (Core Course)	Name of The Course/Paper	Paper	Paper Code	Name of The Course/Paper
	Not Applicable	Not Applicable	I	PSY-231	Health Issues and Well-Being
I	PG CC PSY-301	Research Methodology	II	PSY-232	Research Methodology in Psychology
II	PG CC PSY- 302 A	Psychopathology	III	PSY-233 A	Psychological Disorders
	PG CC PSY- 302 B	Individual Counseling		PSY-233 B	Counselling Psychology
III	PG CC PSY303 A	Psycho- Diagnostics And Assessment	IV	PSY-234 A	Psycho-Diagnostics
	PG CC PSY303 B	Perspective in Career Counselling		PSY-234 B	Counselling in Special Areas

SEMESTER-IV

New Syllabus from June 2022 (CBCS Pattern) Semester-IV			Old Syllabus from June 2017 Semester-IV		
Paper	Paper Code and No. (Core Course)	Name of The Course/Paper	Paper	Paper Code	Name of The Course/Paper
	Not Applicable	Not Applicable	I	PSY-241	Health Issues & Modern Life
I	PG CC PSY-401	Dissertation (Research Project)	II	PSY-242	Dissertation
II	PG CC PSY- 402 A	Clinical Disorders	III	PSY-243 A	Abnormal Psychology
	PG CC PSY- 402 B	Theories And Psychotherapies In Counseling		PSY-243 B	Counselling Assessment and Therapies
III	PG CC PSY 403 A	Psychotherapies Theory And Applications	IV	PSY-244 A	Psycho-Diagnostics Theory and Therapies
	PG CC PSY403 B	Counseling In Major Areas		PSY-244 B	Counselling Specialties

ELECTIVE AND AUDIT COURSES

Semester	Paper No.	Skill Based /Electives	Paper Code No	Name of The Course/Paper
SEM-III	IV	Elective Course OR Elective Course	PG EC PSY-304 OR PG EC PSY- 305	Fundamentals Of Health Psychology OR Positive Psychology
	V	Audit Course (Compulsory)	PG AC PSY-306	Fundamentals Of Research In Psychology
SEM-IV	IV	Elective Course OR Elective Course	PG EC PSY- 404 OR PG EC PSY- 405	Health Issues And Prevention OR Approaches Of Positive Psychology
	V	Audit course (Compulsory)	PG AC PSY- 406	Applied Social Psychology

Semester – III (18 Credits) + Semester-IV (20 Credits) = Total 38 Credits

**KAVAYITRI BAHINABAI CHAUDHARI
NORTH MAHARASHTRA UNIVERSITY, JALGAON
FACULTY OF HUMANITIES
SYLLABUS FOR MA PSYCHOLOGY (Part-II) SEMESTER- IV
UNDER THE PATTERN OF
CHOICE BASED CREDIT SYSTEM (CORE COURSE)
SUBJECT- DISSERTATION (RESEARCH PROJECT) (PGCC PSY- 401)
(Compulsory Paper)**

**Total Marks - 60 +40 (Theory)
Credit – 06**

**Periods - 72
Total Hours - 72**

Objectives:

1. *To provide an overview of scientific research in psychology*
 2. *To acquaint the students with various steps of research process in psychology.*
 3. *To orient students towards basic terminology of advanced research report.*
 4. *To impart knowledge and develop skills about writing research report.*
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The Dissertation Format:

- *Title Page*
- *Abstract*
- *Introduction*
- *Literature Review (Concluded with Objectives and Hypothesis)*
- *Method: (Includes Sample; Tools; Procedure; etc.)*
- *Results*
- *Discussion*
- *References*
- *Appendix*

Guidelines for Dissertation -:

The aim of the dissertation is to provide you with an opportunity to further your intellectual and personal development in your chosen field by undertaking a significant practical unit of activity, having an educational value at a level commensurate with the award of your degree

The dissertation can be defined as a scholarly inquiry into a problem or issues, involving a systematic approach to gathering and analysis of information / data, leading to production of a structured report.

- It is usual to give you some discretion in the choice of topic for the dissertation and the approach to be adopted. You will need to ensure that your dissertation is related to your field of specialization and region wise.
- The student will submit a list of his/her three most preferred topics in the order of preference by the third week of the fourth semester to the concern teacher of the parent department.
- All post graduate teachers in the Department will be guides for the project component. All teachers shall have equal number of students allotted for the dissertation.

- The marks given by the members of the evaluation committee will be averaged in each head and the total marks decided by totalling the averages under the three heads.
- Dissertation Submission The student will submit a bound hard copy of the dissertation to the Department by the end of the fourth semester.
- The final dissertation will be typed in one and a half spacing on one side of the paper. The APA style shall be followed for the writing of dissertation.

Guidelines for the Assessment of the Dissertation

While evaluating the dissertation, faculty guide will consider the following aspects:

1. Has the student made a clear statement of the objective or objective(s)?
2. If there is more than one objective, do these constitute parts of a whole?
3. Has the student developed an appropriate analytical framework for addressing the problem?
4. Has the student collected information / data suitable to the frameworks?
5. Are the techniques employed by the student to analyse the data / information appropriate? and relevant?
6. Has the student succeeded in drawing conclusion form the analysis?
7. Do the conclusions relate well to the objectives of the project?
8. Has the student been regular in his work?
9. Layout of the written report.

Evaluation of Project Report

A. Internal Evaluation of Project Report – 40 marks

- Internal evaluation will be done by the concerned teacher or guide.
- There will be 40 marks for Internal assessment.
- Division of marks for project report will be as follows and will be based on suitability and appropriateness of the report with respect to:

Regularity and Punctuality	Data Collection	Result, Interpretation	Summary, Conclusion
10	10	10	10

B. External Evaluation Report of Project Report – 60 marks

- External Examination will be conducted by two examiners (one of whom will be preferably Internal and one External)
- Each batch will consist of only 08 students
- Duration of examination for each batch will be 3 hours.

- Marks for Project Report, Presentation & Viva-voce will be given by both examiners and the average of the same will be considered as final marks of the candidate.

Report Writing	Presentation (PPT)	Viva-Voce
20	20	20

General Notes:

1. Each batch of project should consist of maximum 08 students.
2. A separate batch will be formed if this number exceeds even by one.
3. Workload for each batch will be equivalent to 8 lecture periods.
4. Students should select a problem in consultation with teacher concerned.
5. Sample size should be minimum 30 in each group, e.g.: Normal and maladapted.
6. Project report should be written in APA format.
7. Eligibility for the Project Examination is subject to Certification of Project by the teacher-in charge and HoD.

The Layout Guidelines for the Dissertation:

- A4 size Paper
- Font: Arial (10 points) or Times New Roman (12 points)
- Line spacing: 1.5
- Top and bottom margins: 1 inch/ 2.5 cm; left and right margins: 1.25 inches/ 3 cm

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B.Voc Degree in Beauty Therapy									
Subject Code	Subject name	Credit	Subject Type	Total Marks		External(UA)		Internal(CA)	
				Max Marks	Min Marks	Max Marks	Min Marks	Max Marks	Min Marks
General Education Component									
Voc601	Business Communication	04	Theory	100	40	60	24	40	16
Voc 602	Entrepreneurship Development	04	Theory	100	40	60	24	40	16
Voc 603	Business Administration -II	04	Theory	100	40	60	24	40	16
	Total Credits	12							
Skill Education Component									
VOC 621	Advance Make Up Art-2	04	Theory	100	40	60	24	40	16
VOC 622	Beauty Market Research & Analysis	04	Theory	100	40	60	24	40	16
VOC 623	Practical on Advance Make Up Art-II	04	Practical	100	40	60	24	40	16
VOC 624	Beauty Contest.	04	Practical	100	40	60	24	40	16
VOC 625	Major Project(Phase-II)	02	Practical	100	40	60	24	40	16
	Total Credits	18							
	General + Skill Components	12+18 = 30							

VOC 623 Practical on Advance Make Up Art-II

Practical Demonstration on –

- Product Knowledge and Skin Care.
- Face and Skin Analysis for Make-Up.
- Light Studies.
- Make Up Techniques-
 - 1) Base Foundation Analysis.
 - 2) Cream and Powder Relation.
 - 3) Countouring Blending , Lips, Brows, Eyes, Material
 - 4) Cleaning the make up Artists Tools.
- Working with the Make up Artist's tool- Brush, Sponge, Puff.
- Types of Make-up
 - 1) Beauty and Special Occasion Make-up.
 - 2) Fantasy Make-Up
 - 3) HD Make Up.
 - 4) Fashion Show Make UP Trend.
 - 5) Corrective Make Up.
 - 6) Western Bridal Make- Up.
 - 7) Traditional Bridal Make-Up.
 - 8) Classic Make-Up.
 - 9) Hair Styling.
- Vanity Set-Up.

VOC 624 Beauty Contest.

VOC 625 Major Project(Phase-II)

**Dr. Annsaheb G. D. Bendale Mahila Mahavidyalaya,
Jalgaon
Affiliated to
Kaviyitri Bahinabai Chaudhari
North Maharashtra University, Jalgaon**

**Bachelor of Vocation Degree Programme
(B.Voc.)**

Course Structure and Curriculum

(As per UGC guidelines for implementing B.Voc. program)

**For
Fashion Designing
(Semester- V, VI)**

(Choice Based Credit System)

W.e.f- July 2020

B.Voc Degree in Fashion Designing									
Subject Code	Subject name	Credit	Subject Type	Total Marks		External(UA)		Internal(CA)	
				Max Mark	Min Mark	Max Mark	Min Mark	Max Mark	Min Mark
General Education Component									
VOC 501	Personality Development and Stress Management	04	Theory	100	40	60	24	40	16
VOC 502	Human Resource Management	04	Theory	100	40	60	24	40	16
VOC 503	Business Administration -I	04	Theory	100	40	60	24	40	16
	Total Credits	12							
Skill Education Component									
VOC 511	Textile Science	04	Theory	100	40	60	24	40	16
VOC 512	Apparel Merchandizing	04	Theory	100	40	60	24	40	16
VOC 513	Practical Course- Fashion Accessories	04	Practical	100	40	60	24	40	16
VOC 514	Practical on Computer Aided Design-I	04	Practical	100	40	60	24	40	16
VOC 515	Portfolio Making & Presentations	02	Practical	100	40	60	24	40	16
	Total Credits	18							
	General + Skill Components	12+18 = 30							

Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon
 FACULTY OF Humanities, M.A. PROGRAMME
 Credit distribution structure for Two years/One-year PG MA programme
ECONOMICS
M.A. (Level 6.0)

M.A. Economics Programme Structure as per NEP Guidelines wef- 2023-24				
SEM-I	Course Category	Paper Code	Name of the course(Title of the Paper)	Total Credit
	DSC-1	ECO-411	Advanced Microeconomic Analysis-I	4
	DSC-2	ECO-412	Public Finance-I	4
	DSC-3	ECO-413	Agricultural Economics-I	4
	DSC -4	ECO-414	Statistics-I	2
	DSE-1	ECO-415	A. Industrial Economics-I B. Environment Economics-I C. Rural Development	4
	RM	ECO-416	Research Methodology for Economics-I	4
Total				22
SEM-II	Course Category	Paper Code	Name of the course(Title of the Paper)	Total Credit
	DSC-5	ECO-421	Advanced Microeconomics Analysis-II	4
	DSC-6	ECO-422	Public Finance-II	4
	DSC-7	ECO-423	Agricultural Economics-II	4
	DSC -8	ECO-424	Statistics-II	2
	DSE-2	ECO-425	A. Industrial Economics-II B. Environment Economics-II C. Demographic Economics	4
	OJt/ Int.	ECO-426	On Job Training/ Internship	4
Total				22

Semester IV

Course Code	Course Type	Title of the Course	Contact Hours/Week			Distribution of Marks for Examination						Credits
			Th(L)	Pr	Total	Internal		External		Total		
						Th	Pr	Th	Pr	Th	Pr	
CS-401	Core	Natural Language Processing	04	-	04	40	-	60	-	100	-	04
CS-402	Core	Data Warehousing and Data Mining (DWDM)	04	-	04	40	-	60	-	100	-	04
CS-403(A)/(B)/ (C)	Elective	Choose one from CS-403(A), CS-403(B) and CS-403(C)	04	-	04	40	-	60	-	100	-	04
CS LAB-VII	Core	Data Warehousing and Data Mining (DWDM)	-	04	04	-	40	-	60	-	100	04
AC-401 (A)/(B)/(C)/(D)	Elective Audit Course	Choose one out of four (AC-401 (A)/(B)/(C)/(D)) (Technology + Value added course)	-	02	02	-	100	-	-	-	100	02
Mini Project	Core	Mini Project										200 06

List of Elective Courses to be offered in Semester-IV:

CS-403(A) Optimization of Algorithm CS-403(B) Machine Learning CS-403(C) Advanced Network Programming

List of Elective Audit Courses to be offered in Semester-VI:

AC-401 (A) : Human Rights AC-401 (B) : Current Affairs or Research Methodology
 AC-401 (C) : Seminar plus Review AC-401 (D) : Intellectual Property Rights(IPR)

कवयित्री बहिणाबाई चौधरी उत्तर महाराष्ट्र विद्यापीठ, जळगांव

एम.ए.मराठी सत्र पहिले व दुसरे

CBCS (2021-2022)	NEP (2020) 2023-2024
PG MAR-101 वाङ्मयीन कालखंडाचा अभ्यास (मध्ययुगीन कालखंड)	P.G. DSC- 1 MAR-411 मराठी वाङ्मयाचा इतिहास (प्राग्भूते १८१८)
PG MAR-202 वाङ्मयीन कालखंडाचा अभ्यास (अर्वाचीन व आधुनिक कालखंड)	P.G. DSC- 5 MAR-511 मराठी वाङ्मयाचा इतिहास (१८१८ ते १९२०)
PG MAR-102 साहित्य समीक्षा, सिद्धांत	P.G. DSC- 2 MAR-412 समीक्षाशास्त्र
PG MAR-202 साहित्य समीक्षा उपयोजन	P.G. DSC- 6 MAR-512 आधुनिक भाषाविज्ञान
PG MAR-103 आधुनिक गद्य वाङ्मय प्रकार-कथा	P.G. DSC- 3 MAR-413 ग्रामीण साहित्य
PG MAR-203 आधुनिक गद्य वाङ्मय प्रकार-कादंबरी	P.G. DSC- 7 MAR-513 दलित साहित्य
PG MAR-104 A विशीष्ट लेखकाचा अभ्यास- महात्मा ज्योतिबा फुले	P.G. DSC- 4 MAR-414 मराठी भाषा आणि कौशल्ये विकसित
PG MAR-204 A लिंगभाव आणि मराठी साहित्य	P.G. DSC- 8 MAR-514 मराठी भाषा आणि तंत्रज्ञान
PG MAR-104 B आधुनिक माध्यमे आणि लेखन व्यवहार	P.G. DSE-1 MAR-415 (A) वाङ्मय प्रकार-चरित्र OR
PG MAR-204 B मराठी अनुवाद आणि संगणक लेखन	P.G. DSE-1 MAR-415 (B) आत्मकथन OR
	P.G. DSE-1 MAR-415 (C) स्वयंम कोर्स
	P.G. DSE-2 MAR-515 (A) वाङ्मय प्रकार-कादंबरी OR
	P.G. DSE-2 MAR-515 (B) प्रवासवर्णन OR
	P.G. DSE-2 MAR-515 (C) स्वयंम कोर्स
PG AC 101 Practicing Cleanlines	P.G. DSE- RM-MAR-416 संशोधन पद्धती
	P.G. DSE- OJT- MAR-516 प्रकाशन व्यवहार
ANY ONE FROM PG AC 201 (A) SOFT SKILL/ PG AC 201 (B) Practicing Sports Activities/ PG AC 201 (C) Practicing Yoga PG AC 201 (D) Introduction of Indian Music	---

**KAVAYITRI BAHINABAI CHAUDHARI NORTH
MAHARASHTRA UNIVERSITY, JALGAON**

Faculty of Science and Technology



F. Y. B. Sc. BOTANY

Theory and Practical Syllabus

(CBCS Pattern)

As Per U. G. C. Guidelines

Semester – I

To Be Implemented From

Academic – Year 2022 - 2023

BOT. – 101: Diversity of Lower Cryptogams

BOT. – 102: Morphology of Angiosperms

BOT. – 103: Practical Based on BOT.-101 and BOT.-102

F.Y. B.Sc. Semester I

Paper III
Bot-103: Practical (Based on Bot.101 and Bot.102)

Practical – 1 : Study of Equipment, Chemicals and Stains used in Botany laboratory:

A) Equipment: Dissecting microscope, Compound Microscope

B) Chemicals:

i) Preservatives: FAA

ii) Stains: Safranin, Light green, Fast green, Cotton blue, Crystal violet,

iii) Mounting media; Glycerine, Lactophenol.

Practical - 2: A) Study of viruses and bacteria using electron photomicrographs (TMV, Bacteriophage, Cocci, Bacillus, Spirillum Bacteria).

B) Technique of Gram staining of bacteria.

Practical – 3 & 4 : **A)** Study of Plant diseases w.r.t. causal organism, symptoms and control

measures of the following:

a. Virus.

i. Yellow vein mosaic disease of Lady's finger

ii. Bunchy top of Banana

b. Bacteria

i. Citrus canker

ii. Black arm of cotton

c. Fungi

i. Green mould of citrus fruits

ii. White rust disease (Specimen/P.S.)/Tikka disease on groundnut [P.S.] (Any one)

B) Study of growth forms of lichens (Crustose, Foliose and Fruticose) specimens / P.S./ Photographs

C) Study of Mycorrhiza; (Ectomycorrhiza and Endomycorrhiza) by Photographs.

Practical -5& 6: Study of systematic position, vegetative and reproductive structures of the following:

A. *Noctoe*

i) Vegetative structure -Filament and cell

ii) Reproductive structure (P.S.)

B. *Sargassum*

i) Vegetative structure

ii) T. S. of main axis

iii) Reproductive structure male and female conceptacles (P.S.)

C. *Aspergillus*

i) Structure of thallus: mycelium,

ii) Reproductive structures asexual (Conidiophore and Conidia)

D. *Agaricus*

i) Structure of basidiocarp

ii) Reproductive structures: basidia and basidiospores (V. S. of Gill)

Practical -7: Study of morphology of root and stem modifications as per theory.

Practical – 8 : Study of

- a) Parts of leaf
- b) Types of stipules
- c) Types of leaf
- d) Types of phyllotaxy
- e) Types of venation
- f) Modifications of leaf as per theory

Practical – 9 : Study of types of inflorescence as per theory.

Practical – 10 : Study of

- a) Calyx – types of calyx as per theory
- b) Corolla – forms of corolla as per theory
- c) Types of aestivation

Practical -11: Study of

- a) Androecium – Cohesion and Adhesion
- b) Gynoecium– types of placentation.

Practical -12: Study of types of fruits as per theory.

Submission: 1. Excursion tour report.

Note: Short or long excursion tour and visit to any botanical garden are compulsory.

**KAVAYITRI BAHINABAI CHAUDHARI NORTH MAHARASHTRA
UNIVERSITY, JALGAON**

Structure of S.Y. B.Sc. Botany Syllabus under CBCS Pattern

w.e.f. June, 2019

Year	Sem.	Paper	Code	Title of Course	Marks		Credits
					Int.(CA)	Ext.(UA)	
II	III	I	Bot. 301	Plant Anatomy	40	60	2
		II	Bot. 302	Plant Physiology	40	60	2
		III	Bot. 303	Practical (LAB - I)	40	60	2
		IV	Bot. 304	Mushroom Culture Technology (SEC)	40	60	2
	IV	I	Bot. 401	Plant Embryology	40	60	2
		II	Bot. 402	Plant Metabolism	40	60	2
		III	Bot. 403	Practical (LAB - I)	40	60	2
		IV	Bot. 404	Nursery and Gardening (SEC)	40	60	2

**KAVAYITRI BAHINABAI CHAUDHARI NORTH MAHARASHTRA
UNIVERSITY, JALGAON**

Faculty of Science and Technology

**SYLLABUS FOR CORE AND SKILL ENHANCEMENT COUESES IN
BOTANY**

As Per U. G. C. Guidelines

Based on

Choice Based Credit System (CBCS)

**T. Y. B. Sc. BOTANY SEMESTER - WISE SYLLABUS
(Theory and Practicals)**

SEMESTER - V

DISCIPLINE SPECIFIC COURSES

Bot. 501: Lower Cryptogams

Bot. 502: Morphology and Systematics of Angiosperms

Bot. 503: Cell biology and Genetics

Bot. 504: Plant Physiology and Biochemistry

SKILL ENHANCEMENT COURSE

Bot. 505: Biofertilizers

ELECTIVE COURSES

Bot. 506A: Analytical Techniques in Plant Sciences

Bot. 506B: Horticulture

PRACTICAL COURSES

Bot. 507: Practical - I: Based on BOT. 501 & BOT. 505

Bot. 508: Practical - II: Based on BOT. 502 & BOT. 506 A & BOT. 506B

Bot. 509: Practical - III: Based on BOT. 503 & BOT. 504

W. E. F. JUNE. 2020

SEMESTER - V
PRACTICAL COURSES
PRACTICAL PAPER - I
BOT. 507: Based on Theory Paper - I & V
(BOT. 501 and BOT. 505)

Practicals Based on Bot. 501: Lower cryptogams

Practical - 1 & 2: Study of range of thallus structure in algae with the help of materials or Permanent slides (any one from the examples):

- a) Unicellular thallus: *Chlamydomonas*, *Chlorella*
- b) Colonial thallus: *Pandorina*, *Eudorina*, *Volvox*, *Hydrodictyon*
- c) Filamentous thallus: *Pithophora*, *Chaetophora*, *Coleochaetae*, *Stigeoclonium*,
Drapanaldia, *Fritscheilla* and *Oedogonium*
- d) Siphonaceous thallus: *Vaucheria*, *Caulerpa*
- e) Pseudoparenchymatous: (Uniaxial/Multiaxial) thallus: *Batrachospermum*,
Polysiphonia
- f) Parenchymatous thallus: *Ulva*, *Enteromorpha*

Practical - 3: Study of life cycle of *Chara*

Practical - 4: Study of life cycle of *Sargassum*

Practical - 5: Study of fungal forms (any four)

- | | | |
|----------------------|------------------------|-----------------------|
| i) <i>Stemonitis</i> | ii) <i>Saprolegnia</i> | iii) <i>Rhizopus</i> |
| iv) <i>Eurotium</i> | v) <i>Puccinia</i> | vi) <i>Alternaria</i> |

Practical - 6: Study of life cycle of *Albugo*

Practical - 7: Study of life cycle of *Uncinula*

Practical - 8: Culture of Algae (Venkatraman method)/Culture of Fungi on PDA medium

NOTE: Study tour is compulsory. Students are expected to submit two forms of Algae and Fungi each. Photographs of any two forms Algae and Fungi along with tour report.

Practicals Based on Bot. 505: Biofertilizers

Practical - 9: Diversity of BGA with the help of locally available specimens -

Nostoc, *Anabaena*, *Oscillatoria*, *Gloecapsa* (Any three)

Practical - 10: Preparation of Yeast Extract Mannitol Agar Medium (YEMA Medium)

Practical - 11 and 12: *Rhizobium* culture with the help of healthy leguminous root nodules.

Practical - 13: Mass culture of BGA (Venkatraman method)

Practical - 14: Preparation of Compost, Farm Yard Manure (FYM).

Practical - 15: Study of Ectomycorrhiza and Endomycorrhiza with the help of PS/
Photograph.

PRACTICAL PAPER - II
BOT. 508: Based on Theory Papers - II and VI
(BOT. 502 and BOT. 506A/BOT. 506B)

Practicals Based on Bot. 502: Morphology and Systematics of Angiosperms

Practical - 1: Study of Leaf Morphology (as per theory): Phyllotaxy and Types of leaf

Practical - 2: Study of Inflorescences (as per theory)

Practical - 3: Study of Flower: Types of Flower and Forms of Corolla

Practical - 4 to 6: Study of any six plant families as per theory with respect to systematic position, morphological characters (vegetative and floral), floral formula and floral diagram (*sensu* Bentham and Hookers system)

Practical - 7: Identification of genus and species (any suitable) by using local, regional, state and national flora

NOTE : i) Excursion tour is compulsory

ii) Submission of photograph of any ten plants and tour report at the time of practical examination.

Practicals Based on Bot. 506 A: Analytical Techniques in Plant Sciences

Practical - 8 & 9: Extraction and Separation of amino acids by paper chromatography

Practical -10: Isolation of chloroplasts by solvent method

Practical - 11: Study of different microscopic techniques light and fluorescence by using photographs

Practical - 12: Preparation of different types of stains (Permanent and temporary)

Practical -13: Preparation of permanent slides (double staining)

Practical - 14 & 15: Computation of mean, mode, median, variance and standard deviation from the given data.

Practicals Based on Bot. 506B: Horticulture

Practical - 8: Study of Garden tools and equipment: Sprayer, Duster, Pruning knife, Sprinkler.

Practical - 9: Study of propagation requirement:

i) Media ii) Containers iii) Potting iv) Repotting

Practical - 10 & 11: Study of propagation methods:

a) Cutting b) Layering c) Budding d) Grafting

Practical - 12 to 15: Preparations of different types of fruit products (Any three)

a) Mix fruit Jam b) Wood apple/Guava Jelly

b) Lemon/Orange Squash c) Tomato ketchup

Note: Visit to any one Nursery Unit, Commercial orchard



Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon
Faculty of Commerce & Management
M.Com Advanced Accountancy/ Advanced Costing/Business
Administration
(W. E. F. July 2023-24)



Credit distribution structure for Two Year PG Programme

&

Syllabus for

M.Com

(Advanced Accountancy/ Advanced Costing/Business Administration)



Under

Faculty of Commerce & Management

(Academic Year 2023-24)

SEMESTER II

Level (Semester): 6.0 (II)			Credits	
VERTICALS		Course		
Select Any One Major Out of Three Choices			14 Credit	
Major	Mandatory (DSC) DSC-19 DSC-20 DSC-21 DSC-22	Advanced Accountancy	421A: Advanced Accounting-IV	4
			422A: Management Accounting- II	4
			423A: International Business	4
			424A: Case Studies in Strategic Management	2
		Advanced Costing	421B: Advanced Cost Accounting-IV	4
			422B: Management Accounting-II	4
			423B: Strategic Cost Management	4
			424B: Material Management	2
		Business Administration	421C: Design Thinking	4
			422C: International Business	4
			423C: Recent Trends in Commerce & Business	4
			424C: Case Studies in Strategic Management	2
Elective(DSE) (For all Majors)		425: Industrial Economics-II	4 Credit	
RM		-	-	
OJT/ FP		426: Internship in Industry & Project Submission	4 Credit	
RP		-	22 Credits	
Degree/CumulativeCr.		-	44 Credits	
Exit option: PG Diploma (44 Credits) after Three Year UG Degree				