



**Rishi Dayaram and Seth Hassaram National College and Seth Wassiamull
Assomull Science College. Bandra (West), Mumbai – 400050.**



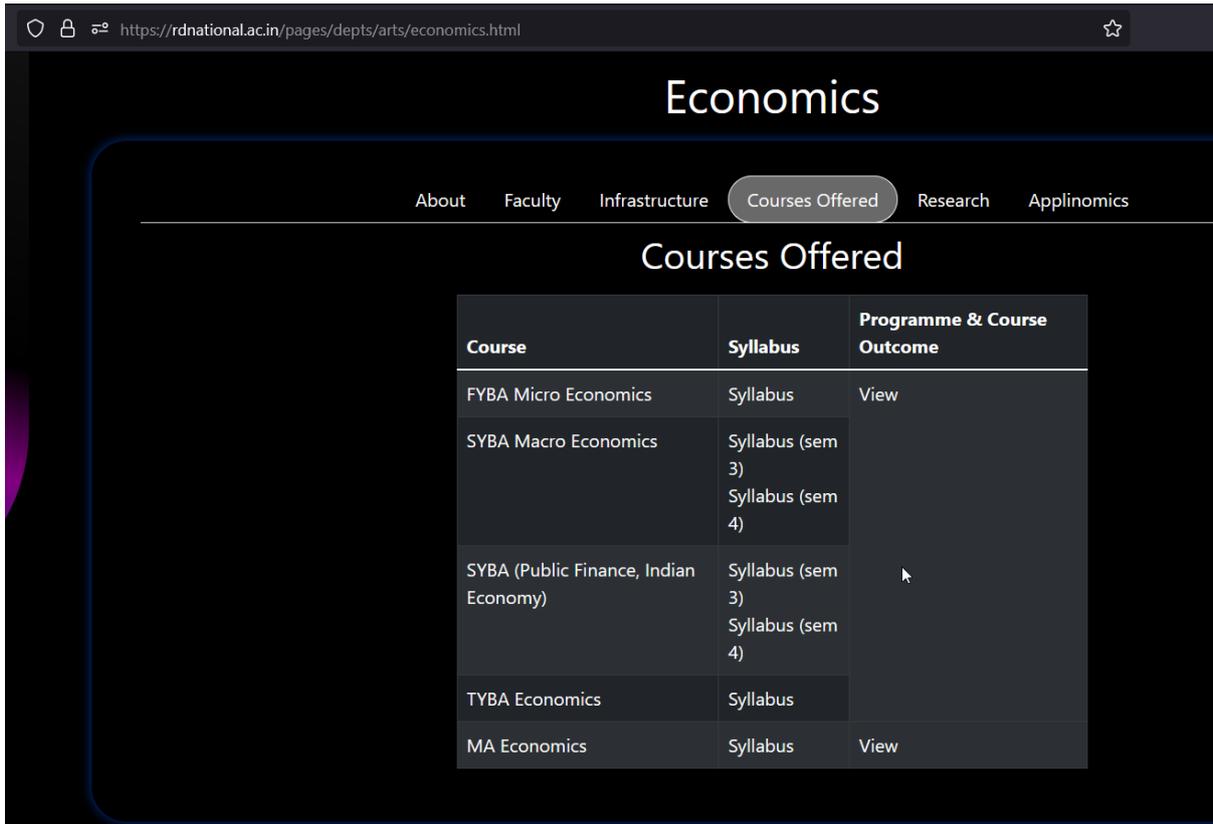
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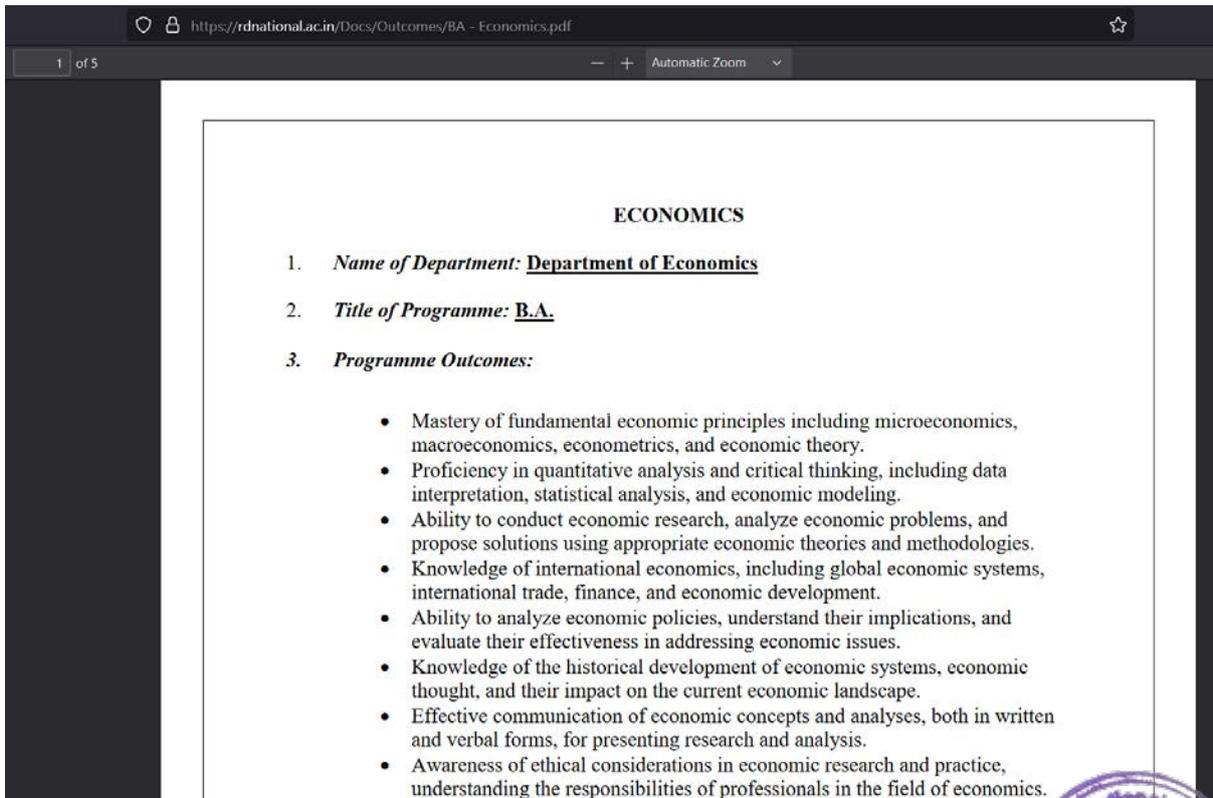
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SAMPLE SCREENSHOTS



The screenshot shows a web browser displaying the Economics department page. The URL is <https://rdnational.ac.in/pages/depts/arts/economics.html>. The page features a navigation menu with links for About, Faculty, Infrastructure, Courses Offered (highlighted), Research, and Applinomics. Below the navigation is a section titled "Courses Offered" containing a table with the following data:

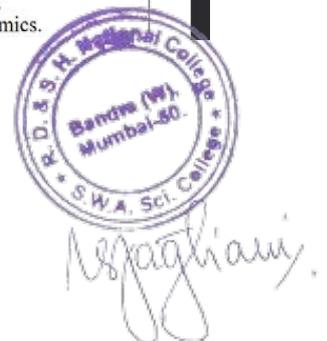
Course	Syllabus	Programme & Course Outcome
FYBA Micro Economics	Syllabus	View
SYBA Macro Economics	Syllabus (sem 3) Syllabus (sem 4)	
SYBA (Public Finance, Indian Economy)	Syllabus (sem 3) Syllabus (sem 4)	
TYBA Economics	Syllabus	
MA Economics	Syllabus	View



The screenshot shows a PDF document titled "ECONOMICS" from the URL <https://rdnational.ac.in/Docs/Outcomes/BA - Economics.pdf>. The document contains the following information:

ECONOMICS

- Name of Department:** Department of Economics
- Title of Programme:** B.A.
- Programme Outcomes:**
 - Mastery of fundamental economic principles including microeconomics, macroeconomics, econometrics, and economic theory.
 - Proficiency in quantitative analysis and critical thinking, including data interpretation, statistical analysis, and economic modeling.
 - Ability to conduct economic research, analyze economic problems, and propose solutions using appropriate economic theories and methodologies.
 - Knowledge of international economics, including global economic systems, international trade, finance, and economic development.
 - Ability to analyze economic policies, understand their implications, and evaluate their effectiveness in addressing economic issues.
 - Knowledge of the historical development of economic systems, economic thought, and their impact on the current economic landscape.
 - Effective communication of economic concepts and analyses, both in written and verbal forms, for presenting research and analysis.
 - Awareness of ethical considerations in economic research and practice, understanding the responsibilities of professionals in the field of economics.



SAMPLE SCREENSHOTS

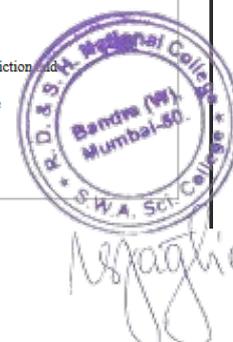
The screenshot shows the website for R.D. AND S.H. NATIONAL COLLEGE AND S.W.A. SCIENCE COLLEGE. The page is titled "English Literature" and features a navigation menu with options: About, Faculty, Infrastructure, Courses Offered (highlighted), Research, and LITERATI BYTES. Below the navigation, there is a section titled "Courses Offered" with a table listing the following courses:

Course	Syllabus	Programme & Course Outcome
BA	Syllabus	View
MA - Part 1	Syllabus	View
MA - Part 2	Syllabus	

The screenshot shows a PDF document titled "ENGLISH" with the following content:

ENGLISH

- Name of Department:** Department of English
- Title of Programme:** B.A.
- Programme Outcomes:**
 - Graduates will be adept at critically analyzing literary works, understanding various genres, and interpreting texts within their historical, cultural, and social contexts.
 - Students will have refined their written and verbal communication skills, allowing them to articulate ideas coherently and persuasively.
 - Graduates will have the ability to conduct independent research, gather relevant information, and evaluate sources, allowing them to produce scholarly work in the field of English studies.
 - Students will possess a comprehensive understanding of significant works in English literature, familiarizing themselves with major authors, movements, and periods.
 - The program aims to promote an understanding of diverse cultural perspectives, historical contexts, and global literary traditions.
 - Graduates will be able to approach problems analytically, think critically, and develop innovative solutions within the context of literature and language studies.
 - Students will develop strong language skills and an understanding of the conventions of writing, grammar, and style, allowing them to produce high-quality written work.
 - The program intends to equip students with the foundational skills and knowledge to pursue further education in fields like literature, education, law, journalism, publishing, or other related professions.
 - Graduates will possess the ability to adapt to new situations and engage in continuous learning, understanding that knowledge in the field of English is dynamic and ever-evolving.
 - Students will be aware of ethical considerations in research and writing, understanding the importance of academic integrity and responsible scholarship.
- Programme Specific Outcomes:**
 - To develop passion for reading literary works amongst students
 - To make learners at ease in the process of appreciation of literature
 - To enable learners to understand and analyze selected stories, prose, fiction and nonfiction masterpieces
 - To imbibe the underlying philosophy and values reflected in literature



SAMPLE SCREENSHOTS

https://rdnational.ac.in/pages/depts/arts/hindi.html

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R.D. AND S.H. NATIONAL COLLEGE AND S.W.A. SCIENCE COLLEGE
Smt. Jotu Kundnani Chowk, Off Linking Road, Bandra West, Mumbai-50

ADMISSIONS EXAMINATIONS STUDENT RESEARCH EVENTS CLUBS COMMITTEES IQAC NAAC NIRF

Department Of Hindi Literature

About Faculty Infrastructure **Courses Offered** Research Events

Courses Offered

Course	Syllabus	Programme & Course Outcome
BA in Hindi	Syllabus	View

https://rdnational.ac.in/Docs/Outcomes/Course Outcome HINDI.pdf

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HINDI

- Name of Department: Hindi**
- Title of Programme: BA**
- Program Specific Outcome**
 - विद्यार्थियों को कविता और कहानी विधाओं के अतिरिक्त हिंदी के प्रमुख साहित्यकारों से परिचित करवाना |
 - अनुवाद और पत्र लेखन की कला का ज्ञान देना |
 - विद्यार्थियों की भाषा को समृद्ध करना|
 - निबंध लेखन और संवाद लेखन द्वारा भावों और विचारों की अभिव्यक्ति में सक्षम बनाना|
 - मुहावरों और व्याकरण के माध्यम से विद्यार्थियों की भाषा को समृद्ध करना|
 - विद्यार्थियों में लेखन के दौरान होने वाली अशुद्धियों को दूर करना |
- Course outcome**

Title of the course	Course Credit	Course outcome
Hindi Compulsory	2	1.विद्यार्थियों को हिंदी के प्रमुख साहित्यकारों एवं उनके साहित्य का ज्ञान प्राप्त होगा
		2.अनुवाद और पत्र लेखन की कला का ज्ञान विकसित होगा जो उन्हें नौकरी देने में सहायक सिद्ध होगा
		3.संवाद लेखन एवं निबंध लेखन कला के ज्ञान से विद्यार्थी अपने भावों की अभिव्यक्ति में सक्षम होंगे
		4.हिंदी व्याकरण एवं शुद्ध हिंदी लेखन का ज्ञान प्राप्त होगा जिसके परिणामस्वरूप लेखन के दौरान होने वाली अशुद्धियों को दूर करने में सक्षम होंगे
		5.अन्यान्य साहित्यकारों के साहित्य के अध्ययन से विद्यार्थियों की भाषा समृद्ध होगी

Stamp: R.D. National College, Bandra (W), Mumbai-40. S.W.A. Sci. College

Signature: K. Jagdishani

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777 rdnational1949@gmail.com

R.D. AND S.H. NATIONAL COLLEGE AND S.W.A. SCIENCE COLLEGE

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ADMISSIONS EXAMINATIONS STUDENT RESEARCH EVENTS CLUBS COMMITTEES IQAC NAAC NIRF DST IIC

Mass Media & Communication (BMM)

About Faculty Infrastructure **Courses Offered** Research Cutting Chair

Courses Offered

Course	Syllabus	Programme & Course Outcomes
BA - MMC	FY (Semester I & II)	View
	SY (Semester III & IV)	
	TY (Semester V & VI)	
MA - MMC	Part 1 (Semester I & II)	View
	Part 2 (Semester III & IV)	

https://rdnational.ac.in/Docs/Outcomes/Programme Outcomes - BAMMC.pdf

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MULTIMEDIA & MASS COMMUNICATION

- Name of Department:** Department of Multimedia and Mass Communication
- Title of Programme:** BAMMC
- Programme Outcomes:**
 - The program considers media industries and their relationship to culture and society, and the understanding of how communication works. The program emphasizes the development of critical thinking, professional writing skills and effective oral communication.
 - Students would demonstrate the ability to apply rhetorical principles in a variety of creative, cinematic, organizational, professional and journalistic venues. Knowledge, skills, and values that prepare them for future careers in our interconnected society, whether in mass media or advanced study
 - Learners would develop a global awareness of political, social and corporate issues influenced by communication sensitivity and skill and understand mass media as a system of interrelated forces, including historical foundations, technological advances, economic dynamics, regulatory constraints, and ethical concerns based on effective principles and practices of media aesthetics for a target audience
 - The course equips students an opportunity to demonstrate their ability to formulate problem statements and application of varieties of creative, cinematic, journalistic, professional, and organizational skills learned throughout. With an assortment of methods, students are expected to get a better hand in analyzing these subjects with a better vision helping them demonstrate the ability to solve challenges and the application of utilizing their skill set
 - Students are guided with professional skills essential for advanced study or making a career in the Entertainment industry, Cinema, OTT Platforms, Social Media Platforms, etc. It prepares students for a wide range of career options in the advertising, public relations, and journalism industry
 - Students will acquire basic knowledge and an overview of the Indian Society, socio-political problems, and visual communication as a part of mass communication, evolution, and key events in the media industry.
 - The fundamental belief is for students to be able to devise and design emerging media products, including blogs, web content, social media, and various multimedia.
 - This course elucidates on the theories, challenges, and potential of the journalism fabric with relevant facts and cases.



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SAMPLE SCREENSHOTS

The screenshot shows the website for R.D. AND S.H. NATIONAL COLLEGE AND S.W.A. SCIENCE COLLEGE. The URL is https://rdnational.ac.in/pages/depts/commerce/accountancy.html. The page title is "Accountancy". The navigation menu includes: ABOUT, FACULTY, INFRASTRUCTURE, COURSES OFFERED (highlighted), RESEARCH, and ACTIVITY. Below the navigation, there is a "Courses Offered" section with a table:

Course	Syllabus	Programme & Course Outcome
BCom in Accounts	Syllabus	View

The screenshot shows a PDF document titled "BACHELORS OF COMMERCE (B.COM)". The document content is as follows:

BACHELORS OF COMMERCE (B.COM)

- Name of Department:-** Faculty of Commerce
- Title of Programme:** Bachelors of Commerce (B.Com)
- Program Outcome**
 - On successful completion of this course, there will be an increase in the decision making capability of the student both on a professional and professional front.
 - This program may help Industries, Banks and Financial Institutions, Marketing Companies with well-trained professionals
 - Students will acquire the required competence to start their own venture.
 - Students shall gain expertise in the fields of Accountancy and Management.
 - The knowledge of different specializations in Advanced Accountancy and Business Management will enable the students to contribute immensely to the organization they work for.
- Program Specific Outcome**
 - The students will be able to obtain knowledge and develop communication and decision-making skills that will help them to resolve day to day problems.
 - The students can find employment opportunities in the field of Finance, Banking, Marketing, Transportation, Media on completion of B.Com
 - This course will enable students to enroll for higher-level education in the field of Management and Commerce. The students may also undertake research work in the areas of Accountancy and Business Policy and Administration.
 - The students can also use their knowledge and acquire professional qualifications like CA, CS, CWA, LLB, CFA. The students can also compete for UPSC, MPSC and other examinations conducted by Governmental Agencies.

The document is signed by the Head of Department, Faculty of Commerce, R.D. & S.H. National College, Bandra (W), Mumbai-40. The signature is "Aspagnani".

SAMPLE SCREENSHOTS

https://rdnational.ac.in/pages/depts/commerce/baf.html

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Smt. Jotu Kundnani Chowk, Off Linking Road, Bandra West, Mumbai-50

ADMISSIONS EXAMINATIONS STUDENT RESEARCH EVENTS CLUBS COMMITTEES IQAC NAAC NIRF

Accounting & Finance (BAF)

About Faculty Infrastructure **Courses Offered** Research Activity

Courses Offered

Course	Syllabus	Programme & Course Outcomes
B. Com (Accounting & Finance)	FY (Semester I & II)	View
	SY (Semester III & IV)	
	TY (Semester V & VI)	
M.Com Advanced Accountancy	(Semester I & II)	View

https://rdnational.ac.in/Docs/Outcomes/BACHELORS OF COMMERCE (ACCOUNTING & FINANCE).pdf

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BACHELORS OF COMMERCE (ACCOUNTING & FINANCE)

Name of Department: Commerce

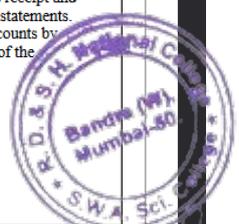
Title of Programme: **Bachelors of Commerce (Accounting & Finance)**

1. Programme Outcomes:

- To provide a detailed understanding of accounting and financial management with the help of updated and latest content
- To bring practical orientation to make the students ready to make a mark in the industry.
- To develop the analytical angle of the students helps the students to interpret and analyze the financial news and statements for the purpose of making decisions.

2. Programme Specific Outcomes:

Sr. No.	Course Title	Course Credits	Course Outcome
1	Financial Accounting – I Elements of Financial Accounting	3	<ol style="list-style-type: none"> To understand Accounting standards 1, 2 and 9 To understand the concept of stock valuation To understand the difference between capital and revenue expenditure and receipt and their treatments on financial statements. To analyse departmental Accounts by considering all departments of the organisation



R. Kundnani

SAMPLE SCREENSHOTS

The screenshot shows the website for R.D. AND S.H. NATIONAL COLLEGE AND S.W.A. SCIENCE COLLEGE. The address bar displays the URL: https://rdnational.ac.in/pages/depts/commerce/commerce.html. The page header includes the college name and address: Smt. Jotu Kundnani Chowk, Off Linking Road, Bandra West, Mumbai-50. A navigation menu lists various departments: ADMISSIONS, EXAMINATIONS, STUDENT, RESEARCH, EVENTS, CLUBS, COMMITTEES, IOAC, NAAC, NIRF, and DST. The main content area is titled "Commerce" and features a sub-menu with "Courses Offered" selected. Below this, a table lists the courses offered:

Course	Syllabus	Programme & Course Outcomes
BCOM	Syllabus	View
M.Com	Part 1(Semester I & II)	View
	Part 2(Semester III & IV)	

The screenshot shows a PDF document titled "BACHELORS OF COMMERCE (B.COM) final.pdf". The document content is as follows:

BACHELORS OF COMMERCE (B.COM)

- Name of Department:-** Faculty of Commerce
- Title of Programme:** Bachelors of Commerce (B.Com)

3. Program Outcome

- On successful completion of this course, there will be an increase in the decision making capability of the student both on a professional and professional front.
- This program may help Industries, Banks and Financial Institutions, Marketing Companies with well-trained professionals
- Students will acquire the required competence to start their own venture.
- Students shall gain expertise in the fields of Accountancy and Management.
- The knowledge of different specializations in Advanced Accountancy and Business Management will enable the students to contribute immensely to the organization they workfor.

4. Program Specific Outcome

- The students will be able to obtain knowledge and develop communication and decision-making skills that will help them to resolve day to day problems.
- The students can find employment opportunities in the field of Finance, Banking, Marketing, Transportation, Media on completion of B.Com
- This course will enable students to enroll for higher-level education in the field of Management and Commerce. The students may also undertake research work in the areas of Accountancy and Business Policy and Administration.
- The students can also use their knowledge and acquire professional qualifications like CA, CS, CWA, LLB, CFA. The students can also compete for UPSC, MPSC and other examinations conducted by Governmental Agencies.

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SAMPLE SCREENSHOTS

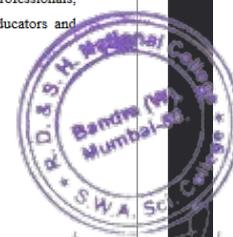
The screenshot shows the website for R.D. AND S.H. NATIONAL COLLEGE AND S.W.A. SCIENCE COLLEGE. The page is titled "Biotechnology" and features a navigation menu with options: About, Faculty, Infrastructure, Courses Offered (highlighted), Research, and Helix. Below the navigation, there is a section titled "Courses Offered" with a table listing the courses.

Course	Syllabus	Programme & Course Outcomes
Bsc Biotechnology	FY (Semester I & II)	View
	SY (Semester III & IV)	
	TY (Semester V & VI)	
Msc Biotechnology	Part 1 (Semester I & II)	View
	Part 2 (Semester III & IV)	

The screenshot shows a PDF document titled "BIOTECHNOLOGY". The document contains the following information:

BIOTECHNOLOGY

- Name of Department:** Department of Biotechnology
- Title of Programme:** B.Sc. - Biotechnology
- Programme Outcomes:**
 - Enable learners to explore diverse careers in Education, Research and Industrial sectors.
 - Imparting hands-on skills required for enabling learner transition into professional scientist.
 - Demonstrate proficiency in basic laboratory skills common to clinical and non-clinical research laboratories, including aseptic technique, making accurate and precise measurements using balances and macro- and micro-pipetting, using a microscope, preparing solutions, operating current instrumentation, preparing samples for various analyses, and maintaining a proper scientific laboratory notebook.
- Programme Specific Outcomes:**
 - Demonstrate knowledge for in-depth analytical and critical thinking to identify, formulate and solve the issues related to Biotechnology Industry, Pharma Industry, Medical or hospital related organizations, Regulatory Agencies, & Academia
 - Develop an ability to solve, analyse and interpret data generated from experiments done in project work or practical courses
 - Appreciate and execute their professional roles in society as biotechnology professionals, employers and employees in various industries, regulators, researchers, educators and managers.



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SAMPLE SCREENSHOTS

https://rdnational.ac.in/pages/depts/science/cs.html

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R.D. AND S.H. NATIONAL COLLEGE AND S.W.A. SCIENCE COLLEGE
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ADMISSIONS EXAMINATIONS STUDENT RESEARCH EVENTS CLUBS COMMITTEES IQAC NAAC NIRF DST

Computer Science

About Faculty Infrastructure **Courses Offered** Activities SynTech-X Tech Tales CS @ RD Na

Courses Offered

Course	Syllabus	Programme & Course Outcomes
B.Sc. CS	FY (Semester I & II)	View
	SY (Semester III & IV)	
	TY (Semester V & VI)	
M.Sc. CS	Part 1 (Semester I & II)	View
	Part 2 (Semester III & IV)	
M.Sc. Data Science	Part 1 (Semester I & II)	View
	Part 2 (Semester III & IV)	

https://rdnational.ac.in/Docs/Outcomes/Programme Outcomes - CS.pdf

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COMPUTER SCIENCE

- Name of Department:** Department of Computer Science
- Title of Programme:** BSc CS & MSc CS
- Programme Outcomes:**
 - To develop an understanding and knowledge of the basic theory of Computer Science with good foundation on theory, systems and applications.
 - To foster necessary skills and analytical abilities for developing computer based solutions of real-life problems.
 - To provide training in emergent computing technologies which lead to innovative solutions for industry and academia.
 - To develop the necessary study skills and knowledge to pursue further post-graduate study in computer science or other related fields.
 - To develop the professional skillset required for a career in an information technology oriented business or industry.
 - To enable students to work independently and collaboratively, communicate effectively, and become responsible, competent, confident, insightful, and creative users of computing technology
- Programme Specific Outcomes:**
 - To formulate, to model, to design solutions, procedure and to use software tools to solve real world problems.
 - To design and develop computer programs/computer -based systems in the areas such as networking, web design, security, cloud computing, IoT, data science and other emerging technologies.
 - To familiarize with the modern-day trends in industry and research based settings and thereby innovate novel solutions to existing problems.
 - To apply concepts, principles, and theories relating to computer science to new situations.
 - To use current techniques, skills, and tools necessary for computing practice
 - To apply standard Software Engineering practices and strategies in real-time software project development.
 - To pursue higher studies of specialization and to take up technical employment.



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https://rdnational.ac.in/pages/depts/science/it.html

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ADMISSIONS EXAMINATIONS STUDENT RESEARCH EVENTS CLUBS COMMITTEES IQAC NAAC NIRF DST

Information Technology

About Faculty Infrastructure **Courses Offered** Activity

Courses Offered

Course	Syllabus	Programme & Course Outcomes
Bsc IT	FY (Semester I & II)	View
	SY (Semester III & IV)	
	TY (Semester V & VI)	
Msc IT	Part 1 (Semester I & II)	View
	Part 2 (Semester III & IV)	

https://rdnational.ac.in/Docs/depts/science/it/Programme Outcomes - BSc IT .pdf

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2.6.1 Program outcomes, program specific outcomes and course outcomes for all programs offered by the Department are stated and displayed in website of the institution.

- Name of Department: Department of Information Technology**
- Title of Programme: BSc IT**
- Programme Outcomes:**
 - To think analytically, creatively and critically in developing robust, extensible and
 - Highly maintainable technological solutions to simple and complex problems.
 - To apply their knowledge and skills to be employed and excel in IT professional careers and/or to continue their education in IT and/or related post graduate programmes.
 - To be capable of managing complex IT projects with consideration of the human, financial and environmental factors.
 - To work effectively as a part of a team to achieve a common stated goal.
 - To adhere to the highest standards of ethics, including relevant industry and organizational codes of conduct.
 - To communicate effectively with a range of audiences both technical and non-technical.
 - To develop an aptitude to engage in continuing professional development.
- Programme Specific Outcomes:**
 - Apply the knowledge of mathematics, science and computing in the core information technologies.
 - Identify, design, and analyze complex computer systems and implement and interpret the results from those systems.
 - Design, implement and evaluate a computer-based system, or process component, to meet the desired needs within the realistic constraints such as economic, environmental, social, political, ethical, health and safety, maneuverability, and sustainability.
 - Review literature and indulge in research using research based knowledge and methods to design new experiments, analyze, and interpret data to draw valid conclusions.
 - Select and apply current techniques, skills, and tools necessary for computing practice and integrate IT-based solutions into the user environment effectively.
 - Apply contextual knowledge to assess professional, legal, health, social and cultural issues during profession practice.



Asghar Ali



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Criteria 2.6

Student Performance and Learning Outcomes

Programme Outcomes (PO), Programme Specific Outcomes (PSO) and Course Outcomes (CO)





**Rishi Dayaram and Seth Hassaram National College and Seth Wassiamull
Assomull Science College. Bandra (West), Mumbai – 400050.**



INDEX

Sr. No	Course Name
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8.	Political Science - BA
9.	Psychology - BA
10.	Psychology - MA
11.	Bachelor in Arts Mass Media and Communications - BA
12.	Masters in Entertainment Media and Advertising
13.	Commerce - BCom
14.	Bachelors in Accountancy and Finance - BCom
15.	Bachelors in Management Studies - BCom
16.	Business Management - MCom
17.	Advanced Accountancy - MCom
18.	Botany
19.	Chemistry
20.	Physics
21.	Zoology
22.	Mathematics and Statistics
23.	Biotechnology
24.	Computer Science
25.	Information Technology



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Faculty of Arts

Criteria 2.6 Programme Outcomes – Course Outcomes



ECONOMICS

1. *Name of Department:* **Department of Economics**

2. *Title of Programme:* **B.A.**

3. *Programme Outcomes:*

- Mastery of fundamental economic principles including microeconomics, macroeconomics, econometrics, and economic theory.
- Proficiency in quantitative analysis and critical thinking, including data interpretation, statistical analysis, and economic modeling.
- Ability to conduct economic research, analyze economic problems, and propose solutions using appropriate economic theories and methodologies.
- Knowledge of international economics, including global economic systems, international trade, finance, and economic development.
- Ability to analyze economic policies, understand their implications, and evaluate their effectiveness in addressing economic issues.
- Knowledge of the historical development of economic systems, economic thought, and their impact on the current economic landscape.
- Effective communication of economic concepts and analyses, both in written and verbal forms, for presenting research and analysis.
- Awareness of ethical considerations in economic research and practice, understanding the responsibilities of professionals in the field of economics.
- Preparedness for pursuing further education in economics or related fields at the postgraduate level or for entering various career paths such as finance, government, policy analysis, research, and more.

4. *Programme Specific Outcomes:*

- To attain in-depth knowledge in a specific area keeping in mind the recent trends
- To enable a student to develop a career opportunity
- To identify the various soft skills that are needed for the growth and progress in a particular paper



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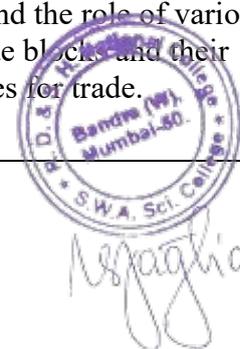
5. Course Outcomes:

Title of the course	Course credit	Course outcome
ADVANCED MICROECONOMICS - III	04	<ol style="list-style-type: none"> 1. Enables students will get knowledge on new market structure, imperfect competition. 2. Provides understanding on the welfare economics and economics of information.
ECONOMICS OF GROWTH AND DEVELOPMENT	04	<ol style="list-style-type: none"> 1. Enable students to apply and analyse issues in the development process. 2. Students will be able to identify the issues related to Growth and Development 3. Students will be able to understand the policy options and analyzed the Measures taken for the Development of an economy.
INDIAN FINANCIAL SYSTEM – I	03	<ol style="list-style-type: none"> 1. Empowering students about Indian Financial system, indicators of financial development and overview of financial sector reforms 2. Awareness on performance, progress and issues in Indian Banking and overview of non-banking institutions in India 3. The course leads to project work/ case studies based on empirical examples such as: Management of NPAs by banks, performance analysis of commercial banks, financial instruments- comparative analysis, performance of NBFIs
INDUSTRIAL AND LABOUR ECONOMICS-I	03	<ol style="list-style-type: none"> 1. Learners will study the different contemporary issues of industrial sector. 2. Learners will know the problems of industries. 3. Learners will get the idea about productivity. 4. Learners will get with new Policies and its impact on industries.
RESEARCH METHODOLOGY - I	04	<ol style="list-style-type: none"> 1. The learners will understand and inculcate research in Economics 2. The learners will exchange ideas and application of results of economic research. 3. The course will help in formulation of problems in social science research. 4. The students will understand data collection and presentation for quality research in social sciences



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QUANTITATIVE ECONOMICS – I	04	<ol style="list-style-type: none"> 1. Students can perform graphical analysis of functions, sketch curves defined by simple equations. Furthermore, it will help to interpret the algebraic solution of economic concepts 2. It will build an ability to explain the economic applications of differentiation, and use it to understand economic concepts such as elasticity, marginal cost and input- output determination and linear programming. 3. Help to develop various quantitative concepts and their application not only in economics but also for other subjects.
ENVIRONMENTAL ECONOMICS - I	04	<ol style="list-style-type: none"> 1. On the completion of this course, the student will have a good understanding of contemporary environmental issues and their relation to economic development. 2. The learner will be equipped to understand the methodologies and tools of valuing the environment. 3. In the light of international environmental agreements, the learners will be able to understand the global approaches and policies adopted by India to deal with the environmental issues.
MATHEMATICS FOR ECONOMIC ANALYSIS	04	<ol style="list-style-type: none"> 1. By the completion of the course, students can solve the economic problems by using mathematical techniques. 2. The application of these mathematical techniques will helps them to analyse the real world problems and to bring out impeccable interpretations in any discipline.
HISTORY OF ECONOMIC THOUGHT - I	03	<ol style="list-style-type: none"> 1. Students will get information about the genesis of Economics and its modern scenario. 2. Establish the co-relation of Economics with other subjects.
ADVANCED MACROECONOMICS - III	04	<ol style="list-style-type: none"> 1. To make student aware about Post Keynesian Synthesis and understand various aspects of Trade Cycles. 2. Students will be able to describe the contemporary Exchange Rate Regimes and International Monetary System.
INTERNATIONAL ECONOMICS	04	<ol style="list-style-type: none"> 1. Students will be able to understand the trade theories and determinants of trade which helps them to analyze the international trade policies. 2. Students will be able to understand the role of various international institutions and trade blocks and their approaches in framing the policies for trade.



INDIAN FINANCIAL SYSTEM-II	03	<ol style="list-style-type: none"> 1. Focuses on features and functioning of financial markets as well as reforms therein. 2. Empowers students about the evolution and significance of financial services, overview of new products and practices in the provision of financial services. 3. Project work based on empirical case studies involving data analysis; suggestive examples: equity research, derivative pricing, analysis of financial performance of corporates, study of capital structure of corporates, mapping the trends in stock market indices, CIBIL score & lending practices of banks.
INDUSTRIAL AND LABOUR ECONOMICS-I	03	<ol style="list-style-type: none"> 1. Learners become aware about different problems and policies a labour. 2. Learners will get intoned about trade unions and industrial relation in contemporary world. 3. Learned will know the different policies of labour welfare.
RESEARCH METHODOLOGY - II	04	<ol style="list-style-type: none"> 1. The learners get assimilated to the research culture in Economics through application of statistics. 2. The learners will understand the concept of index number with its use and applications. 3. The course will help in formulation of hypotheses and its testing in social science research. 4. The students will understand the writing of social science research reports with its various types, organization and styles.
QUANTITATIVE ECONOMICS – II	04	<ol style="list-style-type: none"> 1. Upon the completion of course Students will be able to apply the techniques of derivatives and integration to economic theory 2. Students can handle time series data and interpret the results.
ENVIRONMENTAL ECONOMICS - II	04	<ol style="list-style-type: none"> 1. Students are empowered about the environmental challenges and the need for environmental accounting 2. Develop understanding on the policy measures to attain SDGs
BASIC ECONOMETRICS	04	<ol style="list-style-type: none"> 1. By the completion of this course student will be able to do 2. Testing of hypothesis and interpret the results in research. 3. Regression analysis and interpret the results of the same in any discipline. 4. Applications of relevant techniques for empirical problems in any discipline.



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INTERNATIONAL BANKING AND FINANCE- II	03	<ol style="list-style-type: none">1. Equip students with fundamentals of International Banking.2. Provides an insight on emergence of Crypto currencies and Types of International Banking.3. Awareness on Foreign trade finance and Letter of Credit (L/C) & its types.4. The course will lead to the project work-based on empirical case studies
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Economics

1. *Name of Department:* **Department of Economics**

2. *Title of Programme:* **Master of Arts**

3. *Programme Outcomes:*

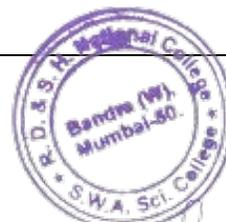
- Understand the problems confronting the Indian economy
- Provide the knowledge on micro and macro approaches in Economics
- Enable them to use the tools required for data analysis

4. *Programme Specific Outcomes*

- Make the students aware of the challenges facing the Indian economy and enable them to suggest policy measures.
- Understanding of economic theory and its applications.
- Provide them with the knowledge of computer applications and hands-on experience

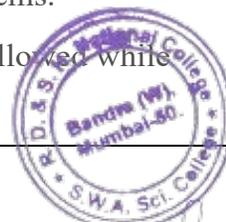
5. *Course Outcomes:*

Title of the course	Course credit	Course outcome
Microeconomics 1	04	<ol style="list-style-type: none">1. Develop an advanced understanding of consumer and firm behaviour along with general equilibrium theory.2. Provide students with the necessary theoretical and analytical tools to study problems of economic policy.
Macroeconomics 1	04	<ol style="list-style-type: none">1. The learners can enhance their understanding of concepts like national income and social accounting, consumption expenditure and investment analysis.2. Students acquire knowledge on issues like inflation, trade cycle as well as money supply and demand for money.



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Indian Economy	04	<ol style="list-style-type: none"> 1. Students get familiarized with the sectoral issues to be tackled from the Indian perspective. 2. Generate awareness on the solutions to deal with the development challenges of the Indian economy in the 21st-century globalised world.
Computer applications for research in economics	02	<ol style="list-style-type: none"> 1. To provide hands-on experience on Excel and its functions 2. Enable students to present data effectively.
Industrial economics	04	<ol style="list-style-type: none"> 1. Enable to empower students about the historical background of industrial development financial institutions. 2. It provides an understanding of the market structure and the best theories to fix the location of industries.
Public finance and public choice	04	<ol style="list-style-type: none"> 1. Provides in-depth knowledge on a range of issues related to public finance and public choice. This enables the students to analyse the budgets of the government of India
International trade : Theory and policy	04	<ol style="list-style-type: none"> 1. Enables to understand the flow of international trade 2. Awareness of varied trade policies
Mathematical methods for economic analysis	04	<ol style="list-style-type: none"> 1. The students will be able to apply the mathematical techniques to various problems in economics.
Research Methodology	04	<ol style="list-style-type: none"> 1. To develop essential analytical skills and sufficient knowledge of quantitative methods and qualitative methods. 2. To enable the student in data collection, presentation, analyses and drawing inferences about various statistical hypotheses based on economic problems. 3. To generate a sense of ethics to be followed while undertaking research.



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Agricultural economics	04	<ol style="list-style-type: none"> 1. This paper enhances knowledge on the process of development of agriculture in an emerging economy. 2. It throws light on the role and the policies as well as the competitiveness of the agricultural sector.
Economics of labour market	04	<ol style="list-style-type: none"> 1. The analysis of case studies would help the student to understand real-world issues about labour markets and also to assess related public policy measures. 2. The course sheds light on a range of new developments and a host of issues studied by generations of labour market experts thereby students are equipped with the skill of getting assimilated with the labour markets in real life as well.
Financial economics	04	<ol style="list-style-type: none"> 1. Students will be exposed to the concepts and terminologies of financial economics 2. Learners will understand the basics of investment and learn to understand the present and future value of investment. 3. Students will be familiar with concepts like balance sheets, analysis of the balance sheets and corporate finance.
	02	<ol style="list-style-type: none"> 1. Enable the students to analyse econometric problems by using Excel. 2. Equip them with the skills to present the analyze data through appropriate means.
Economics of human development	04	<ol style="list-style-type: none"> 1. Awareness on the concepts and dimensions of Human Development 2. Enables to understand the relevance of Human Development Indices



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Economics of development	04	<ol style="list-style-type: none"> 1. To familiarize students with the developmental aspects of nations 2. To acquaint with different theories on growth and development
Econometrics	04	<ol style="list-style-type: none"> 1. The students will be able to draw inferences and solve research problems using advanced econometric techniques.
International Finance	04	<ol style="list-style-type: none"> 2. Develop a theoretical understanding of different aspects of international finance and international financial institutions. 3. Understanding on the functioning of foreign exchange markets. 4. Familiarize students to the concept of international investment and financing



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ENGLISH

1. *Name of Department:* **Department of English**

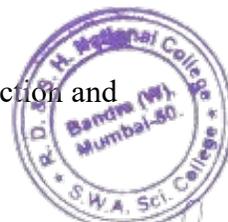
2. *Title of Programme:* **B.A.**

3. *Programme Outcomes:*

- Graduates will be adept at critically analyzing literary works, understanding various genres, and interpreting texts within their historical, cultural, and social contexts.
- Students will have refined their written and verbal communication skills, allowing them to articulate ideas coherently and persuasively.
- Graduates will have the ability to conduct independent research, gather relevant information, and evaluate sources, allowing them to produce scholarly work in the field of English studies.
- Students will possess a comprehensive understanding of significant works in English literature, familiarizing themselves with major authors, movements, and periods.
- The program aims to promote an understanding of diverse cultural perspectives, historical contexts, and global literary traditions.
- Graduates will be able to approach problems analytically, think critically, and develop innovative solutions within the context of literature and language studies.
- Students will develop strong language skills and an understanding of the conventions of writing, grammar, and style, allowing them to produce high-quality written work.
- The program intends to equip students with the foundational skills and knowledge to pursue further education in fields like literature, education, law, journalism, publishing, or other related professions.
- Graduates will possess the ability to adapt to new situations and engage in continuous learning, understanding that knowledge in the field of English is dynamic and ever-evolving.
- Students will be aware of ethical considerations in research and writing, understanding the importance of academic integrity and responsible scholarship.

4. *Programme Specific Outcomes:*

- To develop passion for reading literary works amongst students
- To make learners at ease in the process of appreciation of literature
- To enable learners to understand and analyze selected stories, prose, fiction and nonfiction masterpieces
- To imbibe the underlying philosophy and values reflected in literature



Aspatriani

- To develop sensitivity to nature and understand the relationship between human beings and environment.
- To give an overview of Indian English Literature
- To develop interest in American Literature
- To understand the distinctive features of each of the centuries in English literature from the 16th to 20th century.
- To comprehend how background influences shaped the writer's thinking.
- To recognize and appreciate the literary masters who dominated the scene.
- To comprehend the significant literary theories.
- To follow the technical aspects of grammar, syntax and intonations.

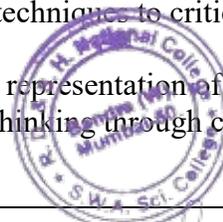
5. Course Outcomes:

Title of the course	Course credit	Course outcome
Communication Skills in English	02	<ol style="list-style-type: none"> 1. To enhance English language proficiency of students by familiarizing them with the skills of Listening, Speaking, Reading and Writing (LSRW). 2. To introduce learners to different perspectives of looking at a text or passage. 3. To equip learners in the functional aspects of English so that they use the acquired language skills correctly and confidently. 4. To guide learners in the effective use of the digital medium of communication. 5. To enable the learners to understand and interpret any text they are reading from different perspectives. 6. To arouse the interest of learners in listening to and watching good quality audio and visual media. 7. To equip the learners with proficiency in listening, speaking, reading and writing that will help them meet the challenges of the world. 8. To enable the learners to develop good oral and written skills of communication in the English language.



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FYBA Optional English – Introduction to Prose and Fiction	03	<ol style="list-style-type: none"> 1. To create interest and develop passion amongst learners towards English Literature. 2. To familiarize learners with salient characteristics of literary genres like short story, prose, fiction and non-fiction. 3. To make learners at ease in the process of appreciation of literature. 4. To introduce learners to various elements of selected short stories written in English and translated into English. 5. To acquaint learners with different forms of prose and its importance through close reading of selected works. 6. To understand that literature is an expression of human values and universal truths. 7. To develop sensitivity to nature and understand the relationship between human beings and environment.
SYBA Mass Communication	02	<ol style="list-style-type: none"> 1. To introduce some major aspects of communication, mass communication processes, crucial mass media theories and mass communication industries. 2. To develop a broad perspective of the past and the present status of mass media in India. 3. To comprehend different types of Mass Media and gain a critical understanding of the impact of mass media on Indian history, society and culture. 4. To develop critical awareness of the ethics and ideologies in mass media products. 5. To understand the mass media laws in India, and how these laws shape the media practices. 6. To introduce students to the application of social media. 7. To identify various careers opportunities in media industry. 8. To teach the importance, scope, and function of communication and media. 9. To make learners understand the strengths and limitations of basic theories of mass communication.
SYBA Optional English - Introduction to Drama	03	<ol style="list-style-type: none"> 1. To create interest and develop passion amongst learners towards drama (and theatre). 2. To familiarize learners with the salient elements and characteristics of drama. 3. To introduce learners to different forms and types of drama. 4. To introduce learners to the trends and characteristics of significant dramatic movements through representative dramas. 5. To equip the learners with the tools and techniques to critically appreciate drama. 6. To demonstrate that drama is reflection / representation of life. 7. To develop analytical skills and critical thinking through close reading of drama.



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SYBA Optional English - Introduction to Poetry	03	<ol style="list-style-type: none"> 1. To introduce students to different genres and forms of poetry. 2. To sensitize them to the rhythmical and formal properties of poetry by introducing key elements of poetry. 3. To provide them with basic poetic devices for analysing poems. 4. To introduce them to the trends and characteristics of significant poetic movements through representative poems. 5. To develop their skills in reading, writing and to critically appreciate poetry. 6. To introduce students to poetry produced in various social and cultural context. 7. Identify different poetic genres, poetic technique, style and rhetorical devices used in poetry. 8. Teach learners to critically appreciate poems by separating various component parts and investigating the relationship of the parts to the whole.
TYBA English - 16th to 18th Century English Literature	04	<ol style="list-style-type: none"> 1. To introduce students to English Literature of the 16th, 17th and 18th centuries. 2. To show them how background influences shaped the writer's thinking. 3. To present them with the literary masters who dominated the scene. 4. To familiarize students with different writing styles that each age adopted. 5. To comprehend how background influences shaped the writer's thinking.
TYBA English – Literary Criticism	04	<ol style="list-style-type: none"> 1. To introduce the learners to important critical terms. 2. To make them aware of the nature and function of literature and criticism. 3. To impart the technique of close reading of literary texts. 4. To enable them to understand various literary theories and critical approaches. 5. To familiarize the learners with the tenets of practical criticism.



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TYBA English – Grammar and the Art of Writing	04	<ol style="list-style-type: none"> 1. To develop amongst learners an insight into the process of word formation and transformation. 2. To develop amongst them an insight into the sounds, stress patterns and intonations in the English language to improve their speaking skills. 3. To develop among them an insight into the structure of the English language and to provide knowledge of the rules of grammar. 4. To help them learn grammatical analysis and description and the skills of sentence transformation. 5. To introduce the mechanics of writing for effective writing for various domains. 6. To develop a basic understanding of phonetics, morphology and word transformation.
TYBA English – 19th Century English Literature	04	<ol style="list-style-type: none"> 1. To introduce to students the major trends and ideas in the literature and culture of the Romantic and Victorian Eras. 2. To help students understand the texts in the context of prevailing socio- cultural conditions & their historical, political location. 3. To impress upon students the characteristically rebellious/ radical nature of British Romanticism and the stupendous range of changes in the socio-political conditions of Early (1837-1851), Middle (1851-1870) and Late (1870-1901) Victorian Era. 4. To familiarize and highlight major representative texts, genres, thematic concerns and select key concepts/terms pertaining to the respective periods. 5. To help students apply a variety of critical, historical, and theoretical approaches to prescribed literary texts. 6. To sensitize students to diverse sensibilities and humanitarian concerns through literature of the nineteenth century. 7. To appreciate poetry as mirroring private personality, protest and subsequently, public concerns. 8. To view the development of the Victorian Novel as informed by Victorian morality as well as by larger democratic processes. 9. To contextualize the impulses behind the significant emergence of women writing in the 19th century.



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TYBA English – 20th Century British Literature	04	<ol style="list-style-type: none"> 1. To expose students to literary genres, trends, and literary movements of Britain in the 20th Century. 2. To enable students to create linkages between social and historical contexts and literary texts. 3. To equip students with comprehensive understanding of literary genres, trends and movements in 20th Century British Literature; thereby enabling them to understand the valuable co-relation between the socio-cultural, economical and historical contexts behind the literary production. 4. Students will acquire the discipline to become reflective and imaginative thinkers through a close, critical and analytical reading of the prescribed texts.
TYBA English – Drama & Theatre	04	<ol style="list-style-type: none"> 1. To acquaint the learners of literature with various types of drama. 2. To sensitize them to the techniques and types of theatre. 3. To identify and discuss the theoretical and practical elements of drama. 4. To introduce them to drama as a performing art. 5. To enhance their understanding of the elements of theatre. 6. To enable the learners to critically watch a play, write a review and to put up a play. 7. To enable analysis of the social and artistic movements that have shaped theatre and drama. 8. To demonstrate knowledge of the history of drama and theatre as a literature and performing art.



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ENGLISH

1. *Name of Department:* **Department of English**

2. *Title of Programme:* **M.A.**

3. *Programme Outcomes:*

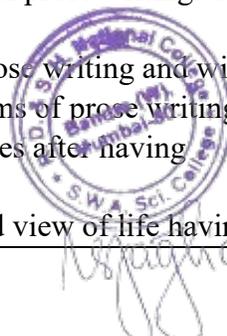
- Enable learners to get a detailed knowledge of English language and literature.
- Develop analytical and critical skills.
- Sensitize the students to various cultures, people and way of life.

4. *Programme Specific Outcomes:*

- To familiarize the students with the poets, authors, critics and dramatists of various ages in order to give them an in-depth knowledge of literature.
- To develop and enhance language skills in students.
- To develop research skills in students by way of critical and logical reasoning.
- To develop writing skills, presentation skills as well as professional skills in English language.

5. *Course Outcomes:*

Title of the course	Course credit	Course outcome
English Poetry from Chaucer to Present	06	By the end of the course, the learners will be able to: 1. Demonstrate their knowledge about the style of writing of the poets that prevailed during the particular age which they represent 2. Engage critically with a range of poets' writing and would be able to analyze and interpret poetry in a wider context 3. Enhance sensitivity towards life 4. Contextualize the text and develop an appreciation of other cultures and ways of life
English Non-Fictional Prose from Bacon to the Present	06	At the end of the course the reader will 1. Be well-versed with English non-fictional prose writings of a vast period of four centuries 2. Have developed a critical eye for any prose writing and will be able to analyze and interpret various forms of prose writing 3. Have cultivated a deep respect for cultures after having scrutinized various kinds of texts 4. Develop an enhanced and more balanced view of life having

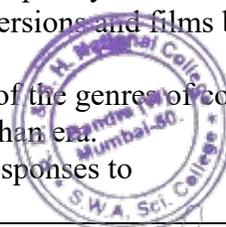


		been exposed to prose writing from different spheres
Literary Criticism	06	<ol style="list-style-type: none"> 1. The student will develop an awareness of the chronological evolution of literary theory 2. The student will be provided with a starting point into literary theory to further advance in exploring literary theories. 3. The student will acquire an understanding of literary theory which will aid in better interpreting literary texts.
Language: Basic Concepts and Theories	06	<p>Having successfully completed this course, the learner will:</p> <ol style="list-style-type: none"> 1. Be able to explore the link between linguistics and the language 2. Be able to identify various levels of structural organization of language 3. Demonstrate an exploratory understanding of the origin and the development of English language 4. Display familiarity with the basic concepts in the study of language 5. Show an introductory understanding of the major theories of human language
English Drama from Shakespeare to the Present	06	<ol style="list-style-type: none"> 1. On completion of the course the learner will be able to demonstrate abilities to appreciate and critically evaluate English Drama.
English Fiction from Defoe to the Present	06	<p>By the end of the course, the learners will be able to</p> <ol style="list-style-type: none"> 1. Demonstrate their knowledge about the style of writing of the novelists that prevailed during the particular age which they represent. 2. Engage critically with a range of novelists' writings and would be able to analyze and interpret any given novel in a wider context. 3. Enhance sensitivity towards life. 4. Contextualize the text and develop appreciation of other cultures and ways of life
Literary Theory: Post World War II	06	<ol style="list-style-type: none"> 1. The learners will develop an awareness of the varied critical methods and literary theories. 2. They will be able to analyse, interpret and criticize literary texts. 3. They will be able to apply the varied critical approaches and literary theories in exploring the multiple viewpoints of the literary texts. 4. They will become aware of the trends and cross-disciplinary nature of literary theories. 5. They will become acquainted with the conventions of writing research papers.



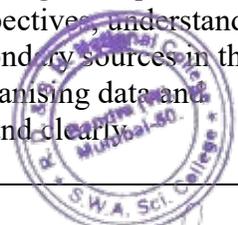
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English in Use and Usage	06	Having successfully completed this module, the learner will: 1. Demonstrate an understanding of English language with a sociolinguistic perspective 2. Understand how the meaning of language is shaped in its interactional context. 3. Show a critical understanding of the native and non-native varieties of English 4. Be able appropriate the English use in varied contexts with a historical perspective of English in India.
Poetry from Chaucer to Present	06	1. To familiarize the students with the major representative poets of every age and movements therein. 2. To help them study different genres of poetry in the context of socio- cultural background of the age
19 th Century American Literature	06	1. To appreciate American literature by reading aesthetically and not just for knowledge/information 2. To discern and analyze the rhetorical strategies that American authors employ 3. To initiate serious engagement with the texts through close reading and analytical writing 4. To develop and demonstrate an awareness of the significance of literature and of literary forms in the 19th century American context 5. To hone their skills in interpretation and research
20 th century American Literature	06	1. To acquaint the learners of literature with the various genres and literary terms of twentieth century American Literature 2. To sensitize them to the themes and styles of modern and postmodern American Literary works 3. To introduce them to the socio-cultural milieu of twentieth century America through literary texts 4. To enhance their understanding of multicultural sensibilities by introducing them to the literary works representing them 5. To facilitate cross-cultural perspectives and discussions on American Literature of multiple ethnicities 6. To enable them to write projects and research papers on American literature
Shakespeare	06	1. To familiarize the learner with timeless dimensions of Shakespeare's works. 2. To help the learner understand the contemporary relevance of Shakespeare with reference to modern versions and films based on his plays. 3. To sensitize the learner to development of the genres of comedy, tragedy and history plays in the Elizabethan era. 4. To acquaint the learner with changing responses to Shakespeare's plays



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Postcolonial Literature	06	<ol style="list-style-type: none"> 1. To open up avenues of research in postcolonial studies by acquainting learners with the complexities and diversity in the studies of location and culture. 2. To encourage learners to interrogate rigid frameworks of the literary canon while sensitizing them to the increasing marginalization of the literature of nation states with a history of colonial rule. 3. To familiarize the learners with socio-cultural and political expressions in literary narratives from a postcolonial perspective. 4. To orient the learners towards the concepts of postcolonial literature and introduce them to various schools of thought evident in academic deliberations.
English for Academic and Commercial Purpose	06	<p>To help students develop:</p> <ol style="list-style-type: none"> 1. Critical reading ability in academic and commercial discourse 2. Ability to collate information from several sources into their own writing avoiding plagiarism 3. Writing skills in academic and commercial discourse demonstrating coherence and cohesion 4. Editing skills 5. Presentation Skills (Oral, using PPT, poster, charts, graphs) and participate in GD, webinars etc. for academic and commercial purpose
Political Reading of Literature	06	<ol style="list-style-type: none"> 1. To historicize literature as an institution embedded in cultural politics 2. To highlight how literary texts, mediate dominant ideologies of their times 3. To examine how literary texts indirectly function as an instrument of power
Project Based Course	10	<ol style="list-style-type: none"> 1. The objective of the Project Based Courses is to evaluate the critical competence, logical reasoning and scholarly composition of the students at the end of the M.A. Programme. 2. At the end of the course students are expected to have sound theoretical knowledge so that they can apply it to a particular area of study selected from the Project Based Course. 3. They should develop the skills of identifying an area of investigation, reviewing literature, analysing concepts, comparing alternative theories and perspectives, understanding the difference between primary and secondary sources in the area of their research, collecting and organising data and articulating their arguments coherently and clearly.



FOUNDATION COURSE

1. *Name of Department:* **Department of Foundation Course**

2. *Title of Programme:* **B.A./BSc/BCom**

3. *Programme Specific Outcomes:*

- Ability to define, comprehend, and articulate the basic concepts of Diverse Indian Society, inequalities & disparities, The Indian Constitution, Values, and aspects of Political Processes.
- Capability to analyze the diverse facets of Indian society, existing inequalities, disparities, and the political landscape of India.
- Proficiency in analyzing the complexities of diverse Indian society, inequalities & disparities, The Indian Constitution, Values, and political processes.
- Capacity to evaluate diverse Indian society, inequalities & disparities, The Indian Constitution, Values, aspects of Political Processes, and the current political scenario.
- Ability to apply foundational knowledge in addressing personal and social issues related to diversity, inequalities, disparities, the Indian Constitution, Values, and political processes.
- Application of knowledge in solving practical problems concerning LPG, Migration, ICT, Human Rights, Environmental concerns, Sustainable development, Stress, Conflict, Ethics & Values, and Socialization.
- Skill in evaluating the implications and consequences of diverse Indian society, inequalities & disparities, The Indian Constitution, Values, political processes, and political situations.
- Capacity to critically assess issues such as LPG, Migration, ICT, Human Rights, Sustainable development, Stress, Conflict, Ethics & Values, Socialization, and recommend suitable solutions.
- Ability to identify, integrate, and describe various issues related to Fundamental Rights, Environmental Concerns, Human Rights, Science, Technology, Sustainable development, Soft skills, and Interpersonal communication.
- Capacity to distinguish, summarize, simplify complex issues, and recommend suggestions in the fields of Fundamental Civic Rights, Ecological Understanding,

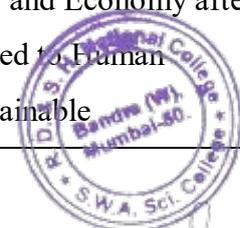


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International Environmental Protocols, Science, Modern Technology, ICT, Competitive exams, and Soft Skills.

4. Course Outcome:

Title of the course	Course credit	Course outcome
FC-I	2	<ol style="list-style-type: none"> 1. Ability to define, understand and explain the basic concepts of Diverse Indian Society, inequalities & disparities, The Indian Constitution, Values and aspects of Political Processes. 2. Ability to analyse the diverse Indian society, existing inequalities and disparities in Indian Society, the Indian Constitution, Values and aspects of Political Processes. 3. Ability to apply the foundational knowledge in solving personal and social problems related to diversity, inequalities, disparities, the Indian Constitution, Values and aspects of Political Processes. 4. Ability to evaluate diverse Indian Society, inequalities & disparities, The Indian Constitution, Values, aspects of Political Processes and Political situation.
Foundation Course- II	2	<ol style="list-style-type: none"> 1. Ability to understand and explain the concepts of- LPG, Farmers suicide, ICT, Migration, Human Rights, Environment, Ecological Issues, Sustainable development, Stress and Conflict's-its types, causes, effects and mechanisms for resolving and coping, Socialisation, Ethics & Values, Hierarchy of Needs 2. Ability to analyse- Indian Society and Economy after LPG, Migration, ICT, issues related to Human Rights, Ecological concerns, Sustainable



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		<p>development, Stress, Conflict, Ethics & Values, Hierarchy of Needs, Socialisation</p> <p>3. Ability to apply the knowledge of LPG, Migration, ICT, UDHR, Human Rights & Indian Constitution, Sustainable development, to resolve Stress and Conflicts, Socialisation, Ethics & Values, Hierarchy of Needs</p> <p>4. Ability to evaluate LPG, Migration, ICT, Human Rights issues, ecological concerns, Sustainable development, Stress and Conflicts, Ethics & Values, Hierarchy of Needs, Socialisation</p>
Foundation Course- III	2	<p>1. Ability to identify the issues related to Fundamental Rights, Environmental Concerns, Human Rights, Science, Technology, Sustainable development, Soft skills and Interpersonal communication.</p> <p>2. Ability to apply in practical issues related to Fundamental Rights, Environmental Concerns. Human Rights, Science, Technology, Sustainable development, Soft skills and Interpersonal communication.</p> <p>3. Ability to analyse various situations in Fundamental Rights, Environmental Concerns. Human Rights, Science, Technology, Sustainable development, Soft skills and Interpersonal communication.</p> <p>4. Ability to evaluate and decide in circumstantial problems related to Fundamental Rights, Environmental Concerns. Human Rights, Science, Technology, Sustainable development, Soft skills and Interpersonal communication.</p>
Foundation Course- IV	2	<p>1. Ability to recognise and describe the Fundamental Civic Rights, Approaches to Ecological Understanding, International Environmental</p>



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		<p>Protocols, Science, Modern Technology, ICT, Competitive exams and Soft Skills.</p> <p>2. Ability to distinguish and summarise issues related to Fundamental Civic Rights, Approaches to Ecological Understanding, International Environmental Protocols, Science, Modern Technology, ICT, Competitive exams and Soft Skills.</p> <p>3. Ability to simplify the complex issues in Fundamental Civic Rights, Approaches to Ecological Understanding, International Environmental Protocols, Science, Modern Technology, ICT, Competitive exams and Soft Skills.</p> <p>4. Ability to recommend the suggestions in the field of Fundamental Civic Rights, Approaches to Ecological Understanding, International Environmental Protocols, Science, Modern Technology, ICT, Competitive exams and Soft Skills.</p>
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HINDI

1. *Name of Department:* Hindi

2. *Title of Programme:* BA

3. **Program Specific Outcome**

- विद्यार्थियों को कविता और कहानी विधाओं के अतिरिक्त हिंदी के प्रमुख साहित्यकारों से परिचित करवाना |
- अनुवाद और पत्र लेखन की कला का ज्ञान देना |
- विद्यार्थियों की भाषा को समृद्ध करना|
- निबंध लेखन और संवाद लेखन द्वारा भावों और विचारों की अभिव्यक्ति में सक्षम बनाना|
- मुहावरों और व्याकरण के माध्यम से विद्यार्थियों की भाषा को समृद्ध करना|
- विद्यार्थियों में लेखन के दौरान होने वाली अशुद्धियों को दूर करना |

4. **Course outcome**

Title of the course	Course Credit	Course outcome
Hindi Compulsory	2	1.विद्यार्थियों को हिंदी के प्रमुख साहित्यकारों एवं उनके साहित्य का ज्ञान प्राप्त होगा
		2.अनुवाद और पत्र लेखन की कला का ज्ञान विकसित होगा जो उन्हें नौकरी देने में सहायक सिद्ध होगा
		3.संवाद लेखन एवं निबंध लेखन कला के ज्ञान से विद्यार्थी अपने भावों की अभिव्यक्ति में सक्षम होंगे
		4.हिंदी व्याकरण एवं शुद्ध हिंदी लेखन का ज्ञान प्राप्त होगा जिसके परिणामस्वरूप लेखन के दौरान होने वाली अशुद्धियों को दूर करने में सक्षम होंगे
		5.अन्यान्य साहित्यकारों के साहित्य के अध्ययन से विद्यार्थियों की भाषा समृद्ध होगी



Aspashiani

Programme Outcomes:

- विद्यार्थियों को गद्य की प्रचलित विधाओं कहानी निबंध आदि के अतिरिक्त आत्मकथा, जीवनी, संस्मरण, यात्रा वृत्तान्त और रेखाचित्र जैसी नवीनतम विधाओं से परिचित करवाना।
- हिंदी कहानी के आरंभ से लेकर अद्यतन कहानी की प्रवृत्तियों एवं कहानी के विकास से अवगत करवाना ।
- विद्यार्थियों को नवीन गद्य विधाओं के स्वरूप- विवेचन एवं विशेषताओं से परिचित करवाना ।
- विद्यार्थियों को उपन्यास के विवेचन एवं विशेषताओं से परिचित करवाना ।

Course outcome:

Title of the course	Course credit	Course outcome
Hindi Literature	3	1.विद्यार्थी कविता कहानी के अतिरिक्त साहित्य की विविध विधाओं से परिचित हुए ।
		2.कहानी की विशेषताओं, प्रवृत्तियों एवं हिंदी कहानी की विकास यात्रा से परिचित हुए ।
		3.उपन्यास के तत्वों से, स्वरूप से तथा विशेषताओं से परिचित हुए ।
		4.साहित्य के विभिन्न पात्रों के अध्ययन मनन से विद्यार्थियों के चरित्र का विकास हुआ ।
		5.नैतिक मूल्यों में वृद्धि हुई ।
		6.अन्यान्य साहित्यकारों के साहित्य के अध्ययन से विद्यार्थियों की भाषा समृद्ध हुई ।



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Program Specific Outcome:

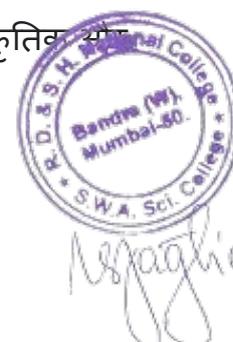
- विद्यार्थियों को हिंदी की मध्यकालीन और आधुनिक कालीन पद्य विधाओं की प्रसिद्ध, प्रचलित रचनाओं एवं परिवेश की जानकारी प्रदान करते हुए दार्शनिक, सामाजिक, राष्ट्रीय, मानवीय और नवीनतम आधुनिक जीवनशैली संबंधी मूल्यों का परिचय कराना |
- हिंदी काव्य के मध्य काल से लेकर अद्यतन काव्य की प्रवृत्तियों एवं कविता के विकास से अवगत कराते हुए काव्य की सामाजिक, मानवीय सरोकारों के साथ पर्यावरण चेतना को समृद्ध करना |
- काव्य के अंतर्गत प्रयुक्त विभिन्न शैलियों का परिचय कराते हुए उसकी शिल्पगत बनावट के साथ जीवन के क्षेत्र में काव्य की उपादेयता को दर्शाना |

Course Outcome:

Title of the Course	Course Credit	Course Outcome
Hindi Literature -II	3	1.विद्यार्थियों में मानवीय संवेदनाओं के विकास के साथ-साथ नवीन सामाजिक, सांस्कृतिक बोध एवं जीवन मूल्यों का विकास होगा
		2.विद्यार्थियों में साहित्य के माध्यम से कलात्मक गुणों की अभिवृद्धि होगी, कला की साहित्यिक विधाओं के प्रति अभिरुचि जागृत होगी एवं रचनात्मक कौशल को बढ़ावा मिलेगा
		3.विद्यार्थियों में नए वैश्विक मूल्यों के प्रति सजगता को बढ़ावा मिलेगा एवं पर्यावरणीय चेतना के प्रति दायित्व बोध उत्पन्न होगा

Program Specific Outcome:

- विद्यार्थियों को गद्य की व्यंग्य विधा की प्रसिद्ध, प्रचलित व्यंग्यात्मक रचनाओं एवं समकालीन परिवेश की जानकारी प्रदान करते हुए सामाजिक, मानवीय, सांस्कृतिक, राष्ट्रीय, मानवीय और नवीनतम आधुनिक जीवनशैली संबंधी मूल्यों का परिचय कराना |



- हिंदी गद्य के प्रारंभिक काल में प्रस्फुटित व्यंग्य रचनाओं से लेकर अद्यतन व्यंग्यात्मक रचनाओं, प्रवृत्तियों एवं व्यंग के विकास से अवगत कराते हुए व्यंग्य के सामाजिक, मानवीय संतुलन- असंतुलन को दर्शाते हुए सकारात्मक पक्षों को बल देना एवं सामूहिक नेतृत्व को समृद्ध करना ।
- व्यंग्य के अंतर्गत प्रयुक्त विभिन्न व्यंग्य दृष्टियों को उजागर करते हुए उसकी शिल्पगत बनावट के साथ आम जीवन के क्षेत्र में व्यंग्य की उपादेयता को दर्शाते हुए उसके विभिन्न सरोकारों से अवगत करवाना ।

Course Outcome :

Title of the Course	Course Credit	Course Outcome
Hindi Literature -II	3	1.विद्यार्थियों में मानवीय संवेदनाओं के विकास के साथ नवीन सामाजिक, सांस्कृतिक और राजनीतिक मूल्यों का गुणात्मक विकास होगा ।
		2.विद्यार्थियों में राष्ट्र-निर्माण हेतु नए सामाजिक, राजनीतिक, सांस्कृतिक विचारों का प्रसार होगा और दायित्व बोध निर्वहन का विकास होगा ।
		3.विद्यार्थियों में नए वैश्विक मूल्यों के प्रति सजगता को बढ़ावा मिलेगा एवं मूल्यवादी दृष्टि के प्रति दायित्व बोध उत्पन्न होगा ।
		4.विद्यार्थियों में साहित्य- रसास्वादन के साथ कलात्मक अभिरुचि का निर्माण होगा, रचनात्मक कौशल को बढ़ावा मिलेगा

Program Specific Outcome:

- विद्यार्थियों को प्रयोजनमूलक भाषा की जानकारी देते हुए कार्यालयीन तथा अन्य व्यवहार क्षेत्रों में हिंदी भाषा के व्यवहार एवं प्रयोग के लिए प्रशिक्षित करते हुए लेखन कौशल का विकास कराना ।
- विद्यार्थियों को प्रयोजनमूलक हिंदी तथा अंग्रेजी की पारिभाषिक शब्दावली से परिचय कराना



- विद्यार्थियों को व्यवसायिक/ कार्यालयीन पत्राचार से अवगत करवाना ।
- विद्यार्थियों को अंग्रेजी/ मराठी भाषा से हिंदी भाषा में अनुवाद कौशल का विकास कराना ।
- विद्यार्थियों को जनसंचार माध्यमों में प्रयुक्त हिंदी भाषा की जानकारी से अवगत कराना ।
- विद्यार्थियों को जनसंचार माध्यमों के विकास से परिचय कराना ।

Course Outcome:

Title of the Course	Course Credit	Course Outcome
Hindi Literature-III	3	1.विद्यार्थियों को व्यावहारिक हिंदी भाषा-दक्षता में प्रवीणता की प्राप्ति होगी ।
		2.विद्यार्थियों को व्यावसायिक रूप से आत्मनिर्भरता के योग्य बनाना ।
		3.विद्यार्थी जनसंचार माध्यमों में रोजगार के अवसर व अन्य क्षेत्रों से अवगत होंगे ।

Program Specific Outcome:

- विद्यार्थियों को जन संचार भाषा की जानकारी देते हुए व्यवहार क्षेत्रों में हिंदी भाषा के व्यवहार एवं प्रयोग के लिए प्रशिक्षित करना ।
- विद्यार्थियों को परंपरागत जनसंचार माध्यमों से परिचय कराते हुए नव्य संचार माध्यमों में प्रयुक्त तकनीक के आंतरिक और बाह्य पक्षों के सामाजिक सरोकारों को दर्शाना ।
- विद्यार्थियों को समाचार लेखन, संपादकीय लेखन, साक्षात्कार, फीचर लेखन से अवगत कराना।
- विद्यार्थियों को सोशल मीडिया, कंप्यूटर, टेलीविज़न इत्यादि के भाषाई प्रयोगों का परिचय देना।



Course Outcome:

Title of the Course	Course Credit	Course Outcome
Hindi Literature-III	3	1.विद्यार्थियों को तकनीकी और व्यावहारिक भाषा दक्षता की प्रवीणता प्राप्त होगी
		2.व्यावसायिक रूप से आत्मनिर्भर की संभावना बढ़ेगी
		3.जनसंचार माध्यमों में रोजगार के क्षेत्रों से परिचय होगा



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HISTORY

1. *Name of Department:* **Department of History**

2. *Title of Programme:* **B.A.**

3. *Programme Outcomes:*

- Graduates will possess a broad understanding of historical events, movements, and periods, both within their own nation and across the world.
- Students will develop the ability to conduct historical research, analyze primary and secondary sources, and critically evaluate historical evidence to form well-supported arguments.
- Graduates will be proficient in critically examining historical events, recognizing different perspectives, and interpreting the causes and consequences of historical occurrences.
- The program aims to enhance students' written and verbal communication skills, enabling them to articulate historical ideas coherently and persuasively.
- Students will understand the cultural, social, political, and economic contexts in which historical events unfolded, appreciating the diverse perspectives that shape history.
- Graduates will be familiar with various historical methodologies and historiographical debates, understanding how interpretations of history evolve over time.
- The program intends to instil an awareness of ethical considerations in historical research and writing, emphasizing academic integrity and responsible scholarship.
- Students will gain an appreciation for global history and the ability to compare different historical experiences, understanding the interconnectedness of world events.
- The program aims to equip students with critical thinking, research, and analytical skills for careers in education, museums, archives, government, law, or for pursuing further education at the graduate level.

4. *Programme Specific Outcomes:*

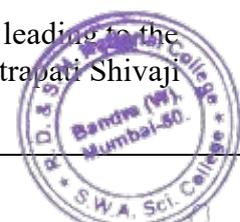
- Emphasis on the history of India and the region, including comprehensive knowledge of local history, cultural developments, and the social, economic, and political changes in the Indian subcontinent.
- Familiarity with various historical methodologies and theories, particularly those relevant to the history of India and its relation to broader global historical narratives.
- Focus on understanding the cultural heritage of India, including its art, architecture, literature, and other cultural aspects, and exploring their historical contexts.
- Encouragement to explore interdisciplinary connections between history and other related fields such as anthropology, sociology, political science, and literature.
- Understanding history from both local and global perspectives, examining how Indian history fits into broader world history and global historical processes.



- Application of historical knowledge to contemporary issues, encouraging students to understand the present by analyzing historical precedents and patterns.

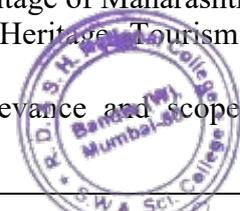
5. Course Outcomes:

Title of the course	Course credit	Course outcome
History of Modern India (1857-1947)	3	1. The course is designed to make the student aware about the making of modern India and the struggle for independence.
History of Modern India: Society and Economy	3	
History and Archeology: Ancient India from Earliest Times to 1000 A.D.	3	1. To acquaint the students with different sources of Ancient Indian History. 2. To enable the students to understand the political, socio-economic and cultural developments in the period under study and appreciate the rich cultural heritage in India
History of Medieval India (1000 CE-1526CE)	4	1. To acquaint the students with the history of early Medieval India that laid the foundation of the Sultanate in India. 2. To study the contribution of Vijayanagar and Bahamani kingdoms to Medieval Indian History. 3. To examine the administrative, socio-economic and cultural aspects of Medieval India.
History of Modern Maharashtra (1818 CE-1960 CE)	4	1. To acquaint students with regional history. 2. To understand political and socio-economic developments during the 19 th and 20 th centuries. 3. To create understanding of the movement that led to the formation of Maharashtra.
Media and Communication	4	1. To inform students about the Fundamentals of Communication. 2. To introduce students to Oral Traditions in Communication and the field of Journalism. 3. To familiarize students with the various types of Audio-Visual Media.
History of the Marathas (1630 CE – 1707CE)	4	1. To introduce the students to the regional history of Maharashtra. 2. To familiarize students with the literary sources of the history of the Marathas. 3. To help students to understand the forces leading to the establishment of Marathapower under Chhatrapati Shivaji Maharaj.



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History of Contemporary World (1945 CE – 2000 CE)	4	<ol style="list-style-type: none"> 1. To trace some of the major events of post-World War II period. 2. To understand the significance of these events. 3. To comprehend the ways in which events of the latter half of the twentieth century have influenced the present.
Introduction to Heritage Tourism	4	<ol style="list-style-type: none"> 1. To develop an understanding of Heritage Tourism amongst students. 2. To introduce the students to new trends in Heritage Tourism. 3. To prepare the students for careers in Tourism industry.
History of Medieval India (1526 CE- 1707CE)	4	<ol style="list-style-type: none"> 1. To acquaint the students with the history of India since the emergence of the Mughal rule. 2. To understand administration of the Mughal Empire. 3. To study the rise of the Maratha Power.
History of Contemporary India (1947 CE- 2000 CE)	4	<ol style="list-style-type: none"> 1. To understand the process of making the Constitution and the Integration and Reorganization of Indian States. 2. To acquaint the students with the political developments in India after Independence. 3. To comprehend the socio-economic changes and progress in science and technology in India.
Media and Communication	4	<ol style="list-style-type: none"> 1. To acquaint students with the various types of Media and Communication. 2. To inform students of the developments in Information Technology. 3. To understand the impact of Media on Society.
History of the Marathas (1707 CE – 1818 CE)	4	<ol style="list-style-type: none"> 1. To enable the students to understand the processes that led to the expansion of the Maratha Power. 2. To appreciate the contribution of the Marathas in the national politics of the 18th century. 3. To develop an understanding of the society and culture in Maharashtra in the 18th century.
History of Asia (1945 CE-2000 CE)	4	<ol style="list-style-type: none"> 1. To acquaint the students with some of the major changes that occurred in Asia after World War II. 2. To understand the ways in which Asian nations resisted and defied the control of the West. 3. To comprehend some of the trends that emerged in Asia.
Heritage Tourism in Maharashtra	4	<ol style="list-style-type: none"> 1. To introduce students to the Cultural Heritage of Maharashtra 2. To understand various resources of Heritage Tourism in Maharashtra 3. To acquaint the students with the relevance and scope of Heritage Tourism



Aspashiani

POLITICAL SCIENCE

1. *Name of Department:* **Department of Political Science**

2. *Title of Programme:* **B.A.**

3. *Programme Specific Outcomes:*

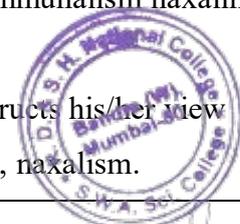
- Understanding the structures, functions, and dynamics of various political systems, including democracies, autocracies, and hybrid regimes.
- Developing critical thinking and analytical skills to evaluate political theories, concepts, and issues.
- Acquiring the ability to conduct research, gather data, and analyze political phenomena using appropriate methodologies.
- Enhancing written and oral communication skills to articulate ideas, arguments, and analyses effectively.
- Familiarity with the role and functioning of political institutions such as legislatures, executives, judiciaries, and bureaucracies.
- Understanding political systems and processes across different countries and regions to analyze similarities, differences, and patterns.
- Knowledge of major political theories and ideologies, including liberalism, conservatism, socialism, feminism, and others, and their relevance to contemporary politics.
- Developing skills to assess public policies, their implementation, and their impact on society.
- Understanding global political dynamics, international relations, and key issues in global governance.
- Promoting awareness of civic responsibilities, political participation, and ethical considerations in politics.



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4. **Course Outcome:**

Title of the course	Course Credit	Course Outcome
Political Science-I (Indian Political System)	3	<ol style="list-style-type: none"> 1. Student understands & explains historical background, philosophy, principles, basic structure of Indian Constitution, Fundamental Rights & Directive Principles of state policy 2. Student applies & examines Indian political system, governing institutions, policymaking process. 3. Student categories & classifies fundamental rights, Directive principles of state policy & powers and functions of Legislature, Executive & Judiciary. 4. Student evaluates Local Self government 5. Student develops interest in Indian politics
Indian Political Process	3	<ol style="list-style-type: none"> 1. Student describes & explains the centre state relations, changing dynamics of centre state relations, Political Parties, Role of Caste, Gender & religion in Politics. 2. Student analyses & examines Indian National and Regional political parties, role of Caste, Gender & religion in Politics. 3. Student analyses & evaluate electoral performance of national and regional political parties, causes of criminalization of politics and gender, religion & caste in Indian Politics. 4. Student measures the causes of low participation of women, communalism naxalim and global terrorism. 5. Student formulates/ reconstructs his/her view on terrorism, communalism, naxalism.



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Principles and Concepts of Political Theory	3	<ol style="list-style-type: none"> 1. Student defines, Explains Principles and concepts of Political Theories. 2. Student examines & Classifies various approaches, principles and concept of political theory. 3. Student analyses & categories power, authority, legitimacy, law, state, nation & nation state & Political obligation. 4. Student evaluates state, nation, civil society, power, authority, legitimacy & right to resistance. 5. Student develops interest in civil society
Public Administration	3	<ol style="list-style-type: none"> 1. Student defines/explains public administration, theories of administration, basic principles, theories of organization, contemporary techniques and practices in administration. 2. Student examines Public Administration, various theories of administration, basic principles and theories of organization. 3. Student categories basic principles and theories of organisation and administration. 4. Student evaluates organisation, administration, Good Governance and E- Governance. 5. Student determines the impact of Liberalisation, Privatisation and Globalisation on Public administration
Political Values and Ideologies	3	<ol style="list-style-type: none"> 1. Student defines and explains Rights, Basic Political Values, Democracy and Political Ideologies 2. Student examines theories of Rights, democracy, political values and political ideologies



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		<ol style="list-style-type: none"> 3. Student analyses theories of Rights various aspect of democracy and political ideologies. 4. Student evaluates political ideologies & democracy. 5. Student develops interest in rights, Rights, Basic Political Values, Democracy and Political Ideologies
Indian Administration	3	<ol style="list-style-type: none"> 1. Student explains evolution, Constitutional Context and silent features of Indian Administration, personnel administration, financial administration and contemporary issues in Indian politics. 2. Student examines Indian administration, financial administration, Lokpal and Lokayukt and contemporary issues in Indian administration. 3. Student analyses evolution of Indian administration personnel administration, financial administration & Contemporary Issues in Indian Administration 4. Student measures/evaluates the changing role of district administration, personnel administration, and contemporary issues in Indian Administration. 5. Students develops interest in Contemporary Issues in Indian Administration.



PSYCHOLOGY

1. *Name of Department:* **Department of Psychology**

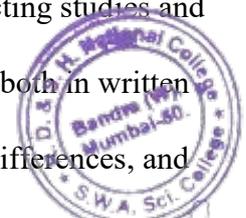
2. *Title of Programme:* **B.A.**

3. *Programme Outcomes:*

- Mastery of fundamental concepts in various subfields of psychology, such as developmental psychology, social psychology, cognitive psychology, clinical psychology, etc.
- Proficiency in research methods used in psychology, including the ability to design studies, collect and analyze data, and interpret research findings.
- Development of critical thinking skills to evaluate psychological theories, research findings, and real-world problems from a psychological perspective.
- Awareness and understanding of ethical issues in psychology, including ethical considerations in research and practice.
- Ability to communicate effectively, both in written and verbal forms, for presenting psychological concepts, research findings, and analysis.
- Application of psychological theories and principles to real-world situations, including the ability to analyze and propose solutions for individual and societal issues.
- Recognition and appreciation of diverse perspectives, individual differences, and cultural influences on behaviour and mental processes.
- Preparation for pursuing further education in psychology or related fields at the postgraduate level, or for entering various career paths such as counselling, human resources, social work, research assistant roles, etc.
- Understanding of psychological assessment tools and their applications in evaluating behaviour, personality, and cognitive abilities.

4. *Programme Specific Outcomes:*

- Mastery of key concepts, theories, and principles in major areas of psychology such as social psychology, cognitive psychology, developmental psychology, and abnormal psychology.
- Proficiency in research methodologies used in psychology, including designing studies, collecting and analyzing data, and interpreting research findings.
- Ability to apply psychological principles to real-world scenarios, including understanding and proposing solutions for individual and societal issues.
- Awareness and understanding of ethical considerations in psychology research and practice, following ethical guidelines and principles in conducting studies and working with clients.
- Effective communication of psychological concepts and findings, both in written and verbal forms, for presenting research and analysis.
- Recognition and appreciation of diverse perspectives, individual differences, and cultural influences on behavior and mental processes.



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- Exposure to basic counselling techniques and the therapeutic process, providing an initial understanding of counselling psychology.
- Recognition of connections between psychology and other fields such as sociology, biology, neuroscience, or public health, allowing for a broader understanding of human behavior and mental processes.
- Preparedness for pursuing further education in psychology or related fields at the postgraduate level or for entering various career paths such as counselling, research, human resources, etc.

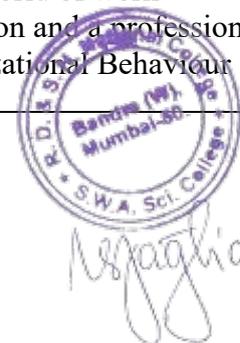
5. Course Outcomes:

Title of the course	Course credit	Course outcome
Fundamentals of Psychology- Part I	3	1. To impart knowledge of the basic concepts and modern trends in Psychology.
Fundamentals of Psychology- Part II	3	2. To foster interest in the subject of Psychology and to create a foundation for further studies in Psychology. 3. To make the students aware of the applications of Psychological concepts in different areas of day to day life.
Psychology of Adjustment: Part I	2	1. To help students in building knowledge of the basic concepts and modern trends in Psychology of Adjustment
Psychology of Adjustment: Part II	2	2. To foster interest in Psychology of Adjustment as a field of study and research among students. 3. To make the students aware of the practical applications of the various concepts in Psychology of Adjustment in the Indian context
Social Psychology: Part I	3	1. To impart knowledge of the basic concepts and modern trends in Social Psychology
Social Psychology: Part II	3	2. To foster interest in Social Psychology as a field of study and research 3. To make the students aware of the applications of the various concepts in Social Psychology in the Indian context
Developmental Psychology: Part I	3	1. To impart knowledge and understanding of the basic concepts, principles, perspectives and modern trends in Developmental Psychology
Developmental Psychology: Part II	3	2. To foster interest in Developmental Psychology as a field of study and research 3. To make the students aware of the implications and applications of the various concepts, principles and theories of Developmental Psychology in daily life in the Indian context

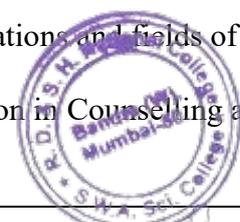


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Psychological Testing and Statistics: Part I	4	<ol style="list-style-type: none"> 1. To impart knowledge and understanding of the nature, uses, technical features, and the process of construction of psychological tests 2. To create awareness about measurement of intelligence and assessment of personality 3. To impart knowledge and understanding of the concepts in Statistics and the various measures of Descriptive Statistics - their characteristics, uses, applications and methods of calculation 4. To create a foundation for advanced learning of Psychological Testing, Assessment, and Statistics
Psychological Testing and Statistics: Part II	4	<ol style="list-style-type: none"> 1. To impart knowledge and understanding of the nature, uses, technical features, and the process of construction of psychological tests 2. To create awareness about measurement of intelligence and assessment of personality 3. To impart knowledge and understanding of the concepts in Statistics and the various measures of Descriptive Statistics - their characteristics, uses, applications and methods of calculation 4. To create a foundation for advanced learning of Psychological Testing, Assessment, and Statistics
Abnormal Psychology: Part I	4	<ol style="list-style-type: none"> 1. To impart knowledge and understanding of the basic concepts in Abnormal Psychology and the theories about Abnormality 2. To impart knowledge and understanding of the different Psychological Disorders – their symptoms, diagnosis, causes and treatment 3. To create awareness about Mental Health problems in society 4. To create a foundation for higher education and a professional career in Clinical Psychology
Abnormal Psychology: Part II	4	<ol style="list-style-type: none"> 1. To impart knowledge and understanding of the basic concepts in Abnormal Psychology and the theories about Abnormality 2. To impart knowledge and understanding of the different Psychological Disorders – their symptoms, diagnosis, causes and treatment 3. To create awareness about Mental Health problems in society 4. To create a foundation for higher education and a professional career in Clinical Psychology
Industrial-Organizational Psychology: Part I	3.5	<ol style="list-style-type: none"> 1. To impart knowledge and understanding of the basic concepts in and various facets of Industrial and Organizational Psychology 2. To create awareness about the role and importance of psychological factors and processes in the world of work 3. To create a foundation for higher education and a professional career in Industrial Psychology and Organizational Behaviour



Industrial-Organizational Psychology: Part II	3.5	<ol style="list-style-type: none"> 1. To impart knowledge and understanding of the basic concepts in and various facets of Industrial and Organizational Psychology 2. To create awareness about the role and importance of psychological factors and processes in the world of work 3. To create a foundation for higher education and a professional career in Industrial Psychology and Organizational Behaviour
Cognitive Psychology: Part I	04	<ol style="list-style-type: none"> 1. To impart knowledge and understanding of the fundamental concepts of Cognitive Psychology and the basic Cognitive processes 2. To create awareness about the various applications of Cognitive processes in everyday life and a foundation to enable understanding of their applications in other fields - Social, Educational, Industrial, Abnormal, Counseling, Sports, Health, Education, and Neuro-Psychology 3. To provide the theoretical orientation and background for the courses on Practicum in Cognitive Processes 4. To create a foundation for higher education and a career in the field of Cognitive Psychology
Cognitive Psychology: Part II	04	<ol style="list-style-type: none"> 1. To impart knowledge and understanding of the fundamental concepts of Cognitive Psychology and the basic Cognitive processes 2. To create awareness about the various applications of Cognitive processes in everyday life and a foundation to enable understanding of their applications in other fields - Social, Educational, Industrial, Abnormal, Counseling, Sports, Health, Education, and Neuro-Psychology 3. To provide the theoretical orientation and background for the courses on Practicum in Cognitive Processes 4. To create a foundation for higher education and a career in the field of Cognitive Psychology
Counseling Psychology: Part I	3.5	<ol style="list-style-type: none"> 1. To impart knowledge and understanding of the nature, process, goals, techniques, ethical issues and major theories in Counseling Psychology 2. To generate interest in the various applications and fields of counseling 3. To create a foundation for higher education in Counseling and a career as a professional counselor
Counseling Psychology: Part II	3.5	<ol style="list-style-type: none"> 1. To impart knowledge and understanding of the nature, process, goals, techniques, ethical issues and major theories in Counselling Psychology 2. To generate interest in the various applications and fields of counselling 3. To create a foundation for higher education in Counselling and a career as a professional counsellor



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Practicals in Cognitive Processes and Psychological Testing: Part I	04	1. To introduce the students to Experimentation through exposure to and experience of experimental designs, methodology and conduct of experiments, statistical analysis, interpretation and discussion of data.
Practicals in Cognitive Processes and Psychological Testing: Part II	04	2. To introduce the students to Psychological Testing: administration, scoring and interpretation of test scores as well as a procedural understanding of concepts related to psychological testing 3. To familiarize the students with computer-based experiments (Coglab) and sensitize them to aspects of control, precision of exposure and measurement 4. To stimulate interest in the process of scientific inquiry with an analytical attitude and To create a foundation for advanced Experimentation and Research in Psychology and applications of advanced Statistical techniques



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MASTERS OF ARTS - PSYCHOLOGY

1. *Name of Department:* Department of M.A Psychology

2. *Title of Programme:* MA psychology

3. *Programme Outcomes:*

- Enable learners to orient themselves towards a scientific and humanistic study of the complexities of human mind and behaviour.
- Along with the curriculum also focus on imparting knowledge of basic psychological concepts & processes
- Ability to lead in all fields of mental health including clinical evaluations, counselling & psychotherapy
- Enable learners to develop presentation skills, problem-solving skills and leadership skills.

4. *Programme Specific Outcomes:*

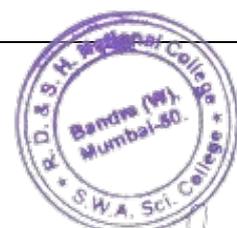
- To educate students with proficiency in core areas of Mental Health to analyze and aid others to create self-awareness & healthy coping strategies for the real-life problems.
- To instill in students a sense of high professionalism, to work as part of teams on multidisciplinary projects and diverse professional environments, needed for a successful professional career
- To provide students with a learning environment consciousness of the life-long learning process, to develop effective oral and written communication skills



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5. Course Outcomes:

Title of the course	Course credit	Course outcome
Personality psychology	04	<ol style="list-style-type: none">1. Introducing various theories of personality2. Help learners to evaluate personality theory and research3. Understand modern approaches to personality4. Understand applications of personality theory to various aspects of life.
Research methodology for psychology	04	<ol style="list-style-type: none">1. To acquaint learners with methodology of quantitative and qualitative psychological research.2. To acquaint learners with philosophy, ethics, design, and evaluation of research in psychology.3. To enable learners to design research.
Statistics for psychology	04	<ol style="list-style-type: none">1. To introduce fundamental concepts about statistical application to psychology2. To help learners to understand applications of statistics and learn numerical methods associated with them3. To introduce multivariate methods and computer applications to statistics4. To be able to use R for all statistical methods taught in the course.
Psychology of cognition and emotion	04	<ol style="list-style-type: none">1. Understanding advanced topics of cognitive science2. Understanding the neuropsychological underpinnings of cognitive processes3. Applying cognitive psychology knowledge to real-life problems.4. Understanding theories, biological basis, and development of human emotions



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Experimental psychology practical	04	<ol style="list-style-type: none"> 1. To enable learners to design experiments in various areas of psychology 2. To help learners to design appropriate computer programs for the experiments 3. To enable learners to analyze and report the data of experiments
Evolutionary psychology	04	<ol style="list-style-type: none"> 1. To acquaint learners with concepts of Evolutionary psychology 2. To explain various psychological aspects as a function of evolution 3. To learn to think about human mind and its processes from an evolutionary perspective 4. To understand specific areas and applications of Evolutionary Psychology
Intervention systems in psychology	04	<ol style="list-style-type: none"> 1. To acquaint students with various systems of psychological intervention. 2. To orient students with eclectic, integrated and multicultural approaches to interventions
Multiculturalism: theory & practice	04	<ol style="list-style-type: none"> 1. To understand issues of identity, stereotyping and discrimination in a multicultural society 2. To explore issues of diversity and conflict in organizations 3. To highlight theory and important considerations in Multicultural Assessment 4. To delineate specific multicultural competencies and interventions
Positive psychology	04	<ol style="list-style-type: none"> 1. To introduce concepts of positive psychology 2. To acquaint students with positive subjective states and processes 3. To enable students to appreciate importance of human strengths and virtues



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Psychological testing and psychometricspracticals	04	<ol style="list-style-type: none"> 1. To be aware of the role of measurement in psychology 2. To appreciate the criteria of a good psychological test 3. To understand necessary steps involved in test construction 4. To value the ethical issues in psychological testing
Assessment in clinical psychology	04	<ol style="list-style-type: none"> 1. Familiarizing students with various assessment approaches and tools used in clinical psychology domains. 2. Trainingstudents to select, administer, score and interpret various types of psychological tools
Psychopathology across lifespan	04	<ol style="list-style-type: none"> 1.To inform students diverse etiologies of clinical disorders. 2. To understand clinical presentations and phenomenology ofclinical disorders.
Psychotherapy	04	<ol style="list-style-type: none"> 1. To equip students with train students generic skills for counseling and psychotherapy. 2. To train students for planningand conducting interventions for variety of mental health problems, particular therapies and special conditions. 3. Toimpart skills through workshops, case discussions, role plays, observations.
Rehabilitation psychology	04	<ol style="list-style-type: none"> 1. To introduce the importance of rehabilitation, recovery and rehabilitation psychology. 2. To explore the concept and modelsof disability. 3.To understand the different issues and applications of rehabilitation psychology. 4.To acquaintstudents with different approaches to rehabilitation counselling.
Cbt and rebt: basicsand applications	04	<ol style="list-style-type: none"> 1. Introducing students to CBT and REBT skills and techniques. 2. Familiarizing students to possible applications of the same.



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Practicum in clinical psychology: psychopathology and neuropsychological diagnostics and Management	10	<ol style="list-style-type: none"> 1. To familiarize students with hands on work in the field of clinical psychology 2. To acquaint students with knowledge and skills required for history and mental status examination and differential diagnosis using standardized diagnostic tools.
Applications of neuropsychology for health management	06	<ol style="list-style-type: none"> 1. To acquaint students with the functions of the human brain. 2. To understand methods of investigating the human brain. 3. To understand primary and higher order neuropsychological processes. 4. To help students to understand applications of neuropsychology to public health.
Change management	06	<ol style="list-style-type: none"> 1. To acquaint the students with Pressures and forces of Organizational change 2. To familiarize the students with Interventions in organizational change 3. To understand how a change Is Implemented
Project based courses	10	To impart practical learning to the students in the courses.



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MULTIMEDIA & MASS COMMUNICATION

1. *Name of Department:* **Department of Multimedia and Mass Communication**

2. *Title of Programme:* **BAMMC**

3. *Programme Outcomes:*

- The program considers media industries and their relationship to culture and society, and the understanding of how communication works. The program emphasizes the development of critical thinking, professional writing skills and effective oral communication.
- Students would demonstrate the ability to apply rhetorical principles in a variety of creative, cinematic, organizational, professional and journalistic venues. Knowledge, skills, and values that prepare them for future careers in our interconnected society, whether in mass media or advanced study
- Learners would develop a global awareness of political, social and corporate issues influenced by communication sensitivity and skill and understand mass media as a system of interrelated forces, including historical foundations, technological advances, economic dynamics, regulatory constraints, and ethical concerns based on effective principles and practices of media aesthetics for a target audience
- The course equips students an opportunity to demonstrate their ability to formulate problem statements and application of varieties of creative, cinematic, journalistic, professional, and organizational skills learned throughout. With an assortment of methods, students are expected to get a better hand in analyzing these subjects with a better vision helping them demonstrate the ability to solve challenges and the application of utilizing their skill set
- Students are guided with professional skills essential for advanced study or making a career in the Entertainment industry, Cinema, OTT Platforms, Social Media Platforms, etc. It prepares students for a wide range of career options in the advertising, public relations, and journalism industry
- Students will acquire basic knowledge and an overview of the Indian Society, socio-political problems, and visual communication as a part of mass communication, evolution, and key events in the media industry.
- The fundamental belief is for students to be able to devise and design emerging media products, including blogs, web content, social media, and various multimedia.
- This course elucidates on the theories, challenges, and potential of the journalism fabric with relevant facts and cases.



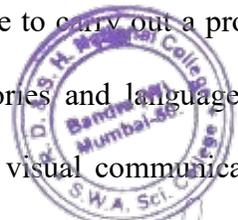
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4. Programme Specific Outcomes:

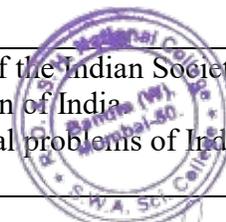
- It emphasizes on making students aware of the functional, analytical, and operational use of communication in media.
- The course equips students an opportunity to demonstrate their ability to formulate problem statements and application of varieties of creative, computers, professional, and organizational skills learned throughout.
- The curriculum deals with the fundamentals of advertising but studies them into detail for an adequate understanding and exploration of the subject. With the specialization of this nature, students get to discover a broad spectrum of perspectives and studies that equips them to gauge each topic with in-depth data available.
- The course teaches students the basic skills of designing, reporting, and editing while teaching them the different structures and angles of writing and also deals with industry issues and technicalities like Press Laws, Management and Business.

5. Course Outcomes:

Title of the course	Course credit	Course outcome
Effective Communication	03	1. To make the students aware of functional and operational use of language in media. 2. To equip or enhance students with structural and analytical reading, writing and thinking skills. 3. To introduce key concepts of communications.
Foundation Course –I	02	1. To introduce students to the overview of the Indian Society. 2. To help them understand the constitution of India. 3. To acquaint them with the socio-political problems of India.
Visual Communication	04	1. To provide students with tools that would help them visualize and communicate. 2. Understanding Visual communication as part of Mass Communication 3. To acquire basic knowledge to be able to carry out a project in the field of visual communication 4. To acquire basic knowledge in theories and languages of Visual Communication 5. The ability to understand and analyze visual communication from a critical perspective



Fundamentals of Mass Communication	04	<ol style="list-style-type: none"> 1. To introduce students to the history, evolution and the development of Mass Communication in the world with special reference to India. 2. To study the evolution of Mass Media as an important social institution. 3. To understand the development of Mass Communication models. 4. To develop a critical understanding of Mass Media. 5. To understand the concept of New Media and Media Convergence and its implications.
Current Affairs	04	<ol style="list-style-type: none"> 1. To provide learners with overview on current developments in various fields. 2. To generate interest among the learners about burning issues covered in the media 3. To equip them with basic understanding of politics, economics, environment and technology so that students can grasp the relevance of related news. 4. Twenty minutes of newspaper reading and discussion is mandatory in every lecture
History of Media	03	<ol style="list-style-type: none"> 1. Learner will be able to understand Media history through key events in the cultural history 2. To enable the learner to understand the major developments in media history. 3. To understand the history and role of professionals in shaping communications. 4. To understand the values that shaped and continues to influence Indian mass media. 5. Learner will develop the ability to think and analyze about media. 6. To sharpen the reading, writing, speaking and listening skills that will help the students to understand the development of Media
Effective Communication (EC –II)	03	<ol style="list-style-type: none"> 1. To make the students aware of use of language in media and organization. 2. To equip or enhance students with structural and analytical reading, writing and thinking skills. 3. To introduce key concepts of communications
Foundation Course	02	<ol style="list-style-type: none"> 1. To introduce students to the overview of the Indian Society. 2. To help them understand the constitution of India 3. To acquaint them with the socio-political problems of India.



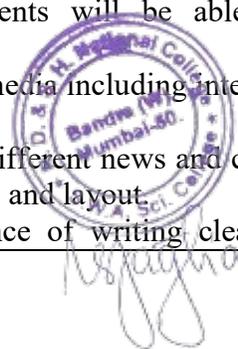
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Content Writing	04	<ol style="list-style-type: none"> 1. To provide students with tools that would help them communicate effectively. 2. Understanding crisp writing as part of Mass Communication 3. The ability to draw the essence of situations and develop clarity of thought.
Introduction to Advertising	04	<ol style="list-style-type: none"> 1. To provide the students with basic understanding of advertising, growth, importance and types. 2. To understand an effective advertisement campaigns, tools, models etc. 3. To comprehend the role of advertising , various departments, careers and creativity 4. To provide students with various advertising trends, and future.
Introduction to Journalism	04	<ol style="list-style-type: none"> 1. To help media students to acquaint themselves with an influential medium of journalism that holds the key to opinion formation & to create awareness.
Media Gender & Culture	03	<ol style="list-style-type: none"> 1. To discuss the significance of culture and the media industry. 2. To understand the association between the media, gender and culture in the society. 3. To stress on the changing perspectives of media, gender and culture in the globalised era
Electronic Media-I	02	<ol style="list-style-type: none"> 1. To make the students acquainted with working of the two powerful media; i.e. radio and television. The content is useful for both advertising and journalism students in order to further their careers in their respective fields.
Corporate Communication and Public Relations	04	<ol style="list-style-type: none"> 1. To provide the students with basic understanding of the concepts of corporate communication and public relations. 2. To introduce the various elements of corporate communication and consider their roles in managing media organizations. 3. To examine how various elements of corporate communication must be coordinated to communicate effectively in today's competitive world. 4. To develop critical understanding of the different practices associated with corporate communication with the latest trends and social media tools.
Media Studies	04	<ol style="list-style-type: none"> 1. To provide an understanding of media theories 2. To understand the relationship of media with culture and society 3. To understand Media Studies in the context of trends in Global Media



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Introduction to Photography	04	<ol style="list-style-type: none"> 1.To introduce to media learner the ability of image into effective communication. 2.To help the learner understand that media photography is a language of visual communication and is far beyond just point and shoot fun moments. 3.To practice how picture speaks thousand words by enlightening the learner on how. 4.To develop the base of visualisation among learners in using pictures in practical projects. 5.To help learner work on given theme or the subject into making a relevant picture or photo feature.
Film Communication-I	04	<ol style="list-style-type: none"> 1. To inculcate liking and understanding of good cinema. 2. To make students aware with a brief history of movies; the major 3. cinema movements. 4. Understanding the power of visuals and sound and the ability to 5. make use of them in effective communication. 6. Insight into film techniques and aesthetics.
Computers and Multimedia-I	02	<ol style="list-style-type: none"> 1. To help learners make media industry ready. This will help learners to be aware of the minimum requirement of the software when stepping out in the industry. 2. To introduce the media softwares to make the learners understand what goes behind the scene and help them choose their stream. 3. To prepare learners skilled enough for independency during project papers in TY sem VI. 4. To help learners work on small scale projects during the academic period.
Electronic Media-II	02	<ol style="list-style-type: none"> 1.To make the students acquainted with working of the two powerful media; i.e. radio and television. The content is useful for both advertising and journalism students in order to further their careers in their respective fields.
Writing and Editing for Media	04	<ol style="list-style-type: none"> 1. Provide the ability to understand writing styles that fit various media platforms. 2. It would help the learner acquire information gathering skills and techniques. 3. On completion of this course, students will be able to understand similarities and 4. differences in writing for all forms of media including internet and digital. 5. The learner will gather knowledge of different news and copy formats alongwith appropriate style-sheets and layout. 6. The learner will imbibe the importance of writing clearly,

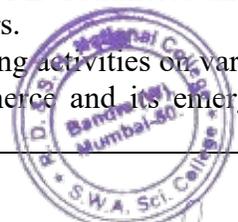


		precisely and accurately for different types of audiences 7. Provide acquire basic proficiency in proof-reading and editing
Media Laws and Ethics	04	1. To provide the learners with an understanding of laws those impact the media. 2. To sensitize them towards social and ethical responsibility of media.
Mass Media Research	04	1.To introduce students to debates in Research approaches and equip them with tools to carry on research To understand the scope and techniques of media research, their utility and limitations
Film Communication II	04	1. Awareness of cinema of different regions. 2. Understand the contribution of cinema in society. 3. How to make technically and grammatically good films. 4. From making to marketing of films. 5. Economic aspects of film. 6. Careers in films.
Computer Multimedia II	02	1. To help learner be media industry ready. This will help learners to be aware of the minimum requirement of the software when stepping in the industry. 2. To introduce the media soft wares to make the learner understand what goes behind the scene and help them choose their stream. 3. To prepare learner skilled enough for independency during project papers in TY sem.VI. 4. To help learners work on small scale projects during the academic period.
Copywriting	04	1. Provide the ability to understand writing styles that fit various media platforms. 2. It would help the learner acquire information gathering skills and techniques. 3. On completion of this course, students will be able to understand similarities and differences in writing for all forms of media including internet and digital. 4. The learner will gather knowledge of different news and copy formats along with appropriate style-sheets and layout. 5. The learner will imbibe the importance of writing clearly, precisely and accurately for different types of audiences 6. Provide acquire basic proficiency in proof-reading and editing.



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Advertising & Marketing Research	04	<ol style="list-style-type: none"> 1. The course is designed to inculcate the analytical abilities and research skills among the students. 2. To understand research methodologies – Qualitative Vs Quantitative 3. To discuss the foundations of Research and audience analysis that is imperative to successful advertising. 4. To understand the scope and techniques of Advertising and Marketing research, and their utility
Globalization & International Advertising	03	<ol style="list-style-type: none"> 1. To introduce to media students about the concept of Globalization and its impact on Global Media and International Advertising. 2. To help the student understand and practice Global Communication. 3. To develop media student's understanding on Global Brands. 4. To introduce to media students about concept and process of International advertising. 5. To help students formulate international advertising campaign by identifying strategies, barriers, challenges and steps to create international advertising. 6. Career opportunities: As Global Brand Managers, Global Content Writer for Ads and Ad Campaigns, Global Market Communicators in Digital Media, career in ad agencies for Global Market
Agency Management	03	<ol style="list-style-type: none"> 1. To acquaint the students with concepts, techniques and give experience in the application of concepts for developing an effective advertising campaign. 2. How an ad agency works and what opportunities exist 3. To familiarize students with the different aspects of running an ad agency 4. To inculcate competencies thereby enabling to undertake professional work with advertising industry.
Direct Marketing & E-commerce	03	<ol style="list-style-type: none"> 1. To understand the awareness and growing importance of Direct Marketing 2. The objective is to use various direct marketing techniques (traditional and modern) for reaching to ultimate customers and build up customer loyalty and database management 3. To understand increasing significance of E-Commerce and its applications in business and various sectors. 4. To provide an insight on Direct Marketing activities on various Social Media platforms through E-commerce and its emerging significance in business



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Consumer Behavior	03	<ol style="list-style-type: none"> 1. To understand the sociological & psychological perspective of consumer behaviour. 2. To introduce students to the complexities of consumer behaviour, its importance in marketing & advertising. 3. To sensitize students to the changing trends in consumer behaviour
Digital Media	04	<ol style="list-style-type: none"> 1. Understand digital marketing platform 2. Understand the key goals and stages of digital campaigns 3. Understand the use of key digital marketing tools 4. Learn to develop digital marketing plans
Advertising Design	04	<ol style="list-style-type: none"> 1. Learner shall understand the process of planning & production of the advertisement. 2. To highlight the importance of visual language as effective way of communication. 3. To provide practical training in the field of advertising & make learner industry ready.
Advertising in Contemporary Society	03	<ol style="list-style-type: none"> 1. To understand the environment of Advertising in Contemporary Society 2. To understand Liberalization and its impact on the economy and other areas of Indian society 3. society 4. To compare and analyse the advertising environment of different countries
Brand Management	03	<ol style="list-style-type: none"> 1. To understand the awareness and growing importance of brand management. 2. To know how to build, sustain and grow brands 3. To know the various sources of brand equity. 4. To know about the global perspective of brand management
Media Planning & Buying	03	<ol style="list-style-type: none"> 1. To develop knowledge of major media characteristics 2. To understand procedures, requirements, and techniques of media planning and buying. 3. To learn the various media mix and its implementation 4. To understand budget allocation for a Media plan and fundamentals
Entertainment & Media Marketing	03	<ol style="list-style-type: none"> 1. To equip students with an understanding of marketing practices, frameworks, and trends in the Entertainment Sector 3. Introducing the students to television industry and film industry. 4. Will make students go through different case studies regarding radio marketing skills, Social media marketing skills etc. 5. Will help to know the impact of media industry on the viewers,



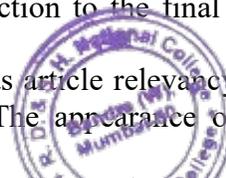
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		understanding its characteristics
Reporting	04	<ol style="list-style-type: none"> 1. To enable students to become Reporters which is supposed to be a prerequisite 2. while entering into the field of Journalism. 3. To make them understand basic ethos of the news and news-gathering. 4. To prepare them to write or present the copy in the format of news. 5. To develop nose for news. 6. To train them to acquire the skills of news-gathering with traditional as well as modern tools. 7. To inculcate the skills for investigative journalism. 8. To make them understand the basic structure/ essential knowledge for various beats. 9. To make them responsible reporters and the face of media.
Investigative Journalism	04	<ol style="list-style-type: none"> 1. Understand the role of investigative reporting in modern journalism 2. To learn to conduct investigative research in an ethical manner. 3. To create and write excellent investigative stories for media. 4. To acquire advanced investigative journalistic skills 5. Learner will acquire the ability to understand and analyse the key areas of investigative journalism even with limited resources.
Global Media and Conflict Resolution	03	<ol style="list-style-type: none"> 1. To help students understand the difference in the role and structure of the media across the globe. 2. To develop an understanding of the hold of media conglomerates and the issues of cultural differences 3. To help students appreciate the potential of media in resolving conflicts
Business and Financial Journalism	03	<ol style="list-style-type: none"> 1. The overall objective of this course is to provide students with the background, knowledge and skills necessary to be business and financial journalists. 2. To create awareness about the importance of business and financial news and its role in coverage, reporting and editing 3. Acquire the skills to write different kinds of Business and Financial leads. 4. Acquire the skill to convert Business news releases into Business and financial reports 5. To improve skills in reporting and writing basic and complex business 6. and financial stories in different beats 7. Provide a basic understanding of the world of business and finance by localising financial and economic data effectively.

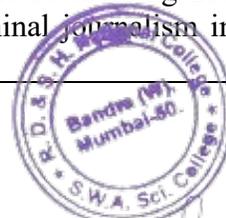


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Mobile Journalism and New Media	03	<ol style="list-style-type: none"> 1. This course was arranged as a preparation program for Media Students, having an enthusiasm for finding out about the nuts and bolts of versatile news-casting. You 2. needn't bother with any past involvement with the ideas, apparatuses or assets of portable news coverage. 3. Towards the end of the course, you will leave away with information about: 4. Global adoption of mobile and its versatility has influenced and changed journalism in 5. New Age Media. M-Learning, in the Era of New Media is the most effective method to 6. get ready for the eventual fate of the media and life in a portable first world. 7. Step by step instructions to report and connect with crowds utilizing cell phones. 8. Step by step instructions to utilize the accepted procedures for ease of use and item 9. plan when constructing your portable encounters in Journalism. 10. The most effective method to settle on educated choices about structure portable news items crosswise over stages. The most effective method to get ready for the eventual fate of wearable's different patterns that may change the course of portable media and news-casting
News Media Management	03	<ol style="list-style-type: none"> 1. To make students aware about the responsibilities, structure and functioning of responsibilities of an organization. 2. Students will be able to analyze individual media businesses and understand the Economic drivers of the media economy. 3. Students will have developed hands-on experience as content marketers using journalistic and digital techniques. 4. Students will have gained a perspective on the evolution of media in the last 25 years and on key current trends.
Digital Media	04	<ol style="list-style-type: none"> 1. Understand digital marketing platform 2. Understand the key goals and stages of digital campaigns 3. Understand the of use key digital marketing tools 4. Learn to develop digital marketing plans
Newspaper & Magazine Design	04	<ol style="list-style-type: none"> 1. The learner is required to understand the process of print media production since the content collection to the final print ready layout. 2. This includes news weightage as well as article relevancy and the visual treatment to the text block. The appearance of the various text blocks matters in layout. 3. Learner should be able to reconstruct headlines suitable for the space keeping the core meaning and intensity intact.



		<p>4. Learners are expected to develop software skills to be employable in industry.</p> <p>5. Learners shall develop the aesthetic vision and understand the discipline behind a layout.</p>
Contemporary Issues	03	<p>1. To stress the importance of social economic political aspects of the society as a media professional.</p> <p>2. To understand the role of media as a strategy to create awareness on various issues and mobilise to bring social progress.</p>
Lifestyle Journalism	03	<p>1. Acquire a conceptual overview of lifestyle journalism and its function in the media industry.</p> <p>2. Acquire an ability to report on lifestyle journalism stories or events in a clear, concise, factual and meaningful way.</p> <p>3. It is a combination of practical skills and conceptual understanding of how this form of journalism is increasingly relevant for the 21st century. This course will help the learner acquire an ability to understand audiences and markets in which the lifestyle</p> <p>4. journalists provide information.</p> <p>5. It will teach students how to do lifestyle journalism with integrity, exploring the broader lifestyle field while focusing on a variety of sub-fields such as travel, music, movies, arts and food, along with students' special interests</p>
Crime Reporting	03	<p>1. Indian Journalism has progressed significantly. Despite the fact that print media is still at the bleeding edge of remarkable work in Indian news coverage there are sure faces in the advanced media that</p> <p>2. motivate you to take up news-casting. Their trustworthiness, coarseness, and determination are characteristics that make them few of the best Indian writers over the most recent few decades.</p> <p>3. Composing or covering news isn't as simple an accomplishment as we might suspect it might be. There is a great deal of elements included while covering a news piece, either in print or advanced. In any case, there are sure identities in the Indian news coverage world that cross all deterrents and hindrances and think of an approach to convey the news to India and the remainder of the world with most extreme trustworthiness. Students will learn the art of covering news as well as have a thorough learning of criminal journalism in this subject.</p>



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Fake News & fact Checking	03	<ol style="list-style-type: none">1. To give media students the understanding of the differentiation between real news and fake news.2. To make media students aware of information disorder.4. To give students a thorough knowledge of information literacy and media.3. To give students a hand on knowledge on fact checking.4. To give students a practical overview of social media verification.5. Career Opportunities: Investigative Journalist, Jobs in Media Houses, Google ,Internship in6. International Fact Checking Network, Jobs in Social Media as Fact Checkers
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ENTERTAINMENT, MEDIA AND ADVERTISING

1. *Name of Department:* **Master of Arts in Entertainment, Media and Advertising**

2. *Title of Programme:* **MAEMA**

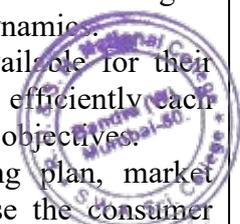
3. *Programme Outcomes:*

- The program will primarily enable the students to understand & appreciate the relevance of Media (Social science/ Interdisciplinary) research.
- This program will provide an excellent foundation for Doctoral & Post Doctoral research in Media & Communication studies - in fields of Advertising, Entertainment & Media.
- The program will enhance their ability to hone their analytical skills & prepare them both for being academicians or for working in the industry.
- It will enable them to have a 360 degree perspective on the nuances of Media industries & Interdisciplinary or allied industries as well.
- This program highlights amalgamation of humanities, Social Sciences & New Media into Advertising, Media & Entertainment to make students aware of developments both in the global & local spheres.
- In this program there is an emphasis on Culture, Communication networks in Societies & it showcases how different cultures are reflected in various practices, systems & beliefs in both different parts of the country & the world.
- This program will equip the learners with professional skills essential for making career in Entertainment industry, Cinema, Television, OTT Platforms, social media platforms etc.
- Students would demonstrate the ability to apply ethical principles in a variety of creative, cinematic, organizational, Advertising and venues in New Media.
- Learners will understand mass media as a system of interrelated forces, including historical foundations, technological advances, economic dynamics, regulatory constraints..
- They will be better equipped to grasp the complex relationship between communication/media theories and a diverse set of individual, social, and professional practices.
- Learners will understand the underlying philosophical assumptions of, and be able to apply, communication research methods to address a range of media texts and audiences.



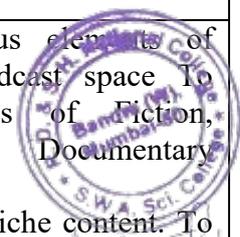
4. Course Outcomes:

Title of the course	Course credit	Course outcome
OVERVIEW I: PRINT, RADIO, TELEVISION AND ADVERTISING	06	<ol style="list-style-type: none"> 1. Understand the scope, functioning of Media Industry 2. Understand the behavior of Indian Media Economy. 3. Understand mass media as a system of interrelated forces, technological advances and economic dynamics.
OVERVIEW II: FILM, DIGITAL, EVENTS, GAMING AND ANIMATION	06	<ol style="list-style-type: none"> 1. Identify the differences and similarities in mass media 2. Understand the scope, functioning of Media Industry 3. Understand the behavior of Indian Media Economy. 4. Understand mass media as a system of interrelated forces, technological advances and economic dynamics.
MEDIA COMMUNICATION THEORIES	06	<ol style="list-style-type: none"> 1. Reflect and critically evaluate theory related to Media and Communications. 2. Fundamental knowledge of the central theories in the Media and Communications discipline.
MEDIA MANAGEMENT	06	<ol style="list-style-type: none"> 1. To understand how to manage the different types of Media 2. To understand Organizational structures & the economics of the same Explain alternative sources of finance and investment opportunities and their suitability in particular circumstances
INTRODUCTION TO MEDIA RESEARCH	06	<ol style="list-style-type: none"> 1. The students should understand the basic concepts of research. 2. The students should be encouraged to write their own research paper, review research literature and even conduct research in the field of communication and media. 3. The students should be well equipped for their dissertation work which will be introduced in semester IV
INTEGRATED MEDIA MARKETING (IMM)	06	<ol style="list-style-type: none"> 1. Understand the concept of marketing management. 2. Understand the importance of marketing in the ever changing market dynamic. 3. Know the various tools available for their help and how can they use efficiently each tool to meet their marketing objectives. 4. Know what is a marketing plan, market research and be able to use the consumer



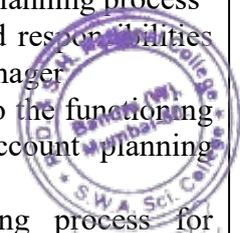
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		<p>insights to develop the marketing plans.</p> <p>5. To efficiently use IMC tools</p>
MEDIA FINANCE AND ACCOUNTING	06	<p>1. Understand basic terms of finance</p> <p>2. Know nuances of finance</p> <p>3. Understand pricing as an important element of business</p> <p>4. Know basics of balance sheet analysis of profitability</p>
ENTREPRENEURSHIP, INNOVATION AND MEDIA LAWS	06	<p>1. Weave their creative ideas into business plans</p> <p>2. Ideate new business plans and analyze its feasibility using the concepts learnt in the course</p> <p>3. Pitch their ideas confidently</p> <p>4. Negotiate and Bargain</p> <p>5. Identify different business-related laws and media laws and their usage and use appropriately in their professional life</p>
Broadcast Business Management :	06	<p>1. To enable the student in understanding the dynamics of the Broadcast Business, Programming and Management space.</p> <p>2. To understand the television and radio production and content management.</p> <p>3. To learn about the dynamics of television and radio distribution.</p> <p>4. To understand the concept of content acquisition.</p>
Film Production & Content pipeline	06	<p>1. To educate about the basics involved in a media project management.</p> <p>2. To educate about the basic project production workflow and management. To educate about the role of a project manager.</p> <p>3. To help understand the details involving a new business project or proposal.</p>
An Orientation to New Media Technologies	06	<p>1. To understand the new trends and technological advancement in the new media space.</p> <p>2. To develop programming strategies in the new media space.</p> <p>3. To learn to use the new medium in advertising.</p> <p>4. To understand various online platforms and technologies.</p>
Television & Radio Production & Programming	06	<p>1. To understand the various elements of programming in the broadcast space To understand the dynamics of Fiction, Non-Fiction and Documentary programming</p> <p>2. To learn the dynamics of niche content. To</p>



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		<p>understand the various elements of programming in the broadcast space for news and specialized events</p> <ol style="list-style-type: none"> To understand the dynamics of news room management To learn the dynamics of live and special events and coverage
Film Distribution and Marketing	06	<ol style="list-style-type: none"> To understand the dynamics of motion picture distribution To understand the various channels of distribution. To understand about various revenue streams arising out of motion picture distribution.
Media Research Analytical Skills	06	<ol style="list-style-type: none"> To introduce the basic concepts of research. To introduce specific cases, research on media effects, analysis findings, and methods. To emphasize on the use of research in media work and digital entertainment media marketing
Business Plan and Negotiation Skills	06	<ol style="list-style-type: none"> To understand the need of a business plan To understand the pitching process To learn and develop skills for pitching and collaborations To learn the various production trends in the industry To understand the very nature and characteristics of negotiation To understand the process of negotiation To learn and enhance Negotiation Skills
Dissertation	06	<ol style="list-style-type: none"> To work in a real environment. To get first-hand feel at handling live projects and understand the business world. To create industry ready professionals. The Students will be encouraged to take a live business project as part of their curriculum. This will not only make the student an industry ready professional but also reduce the gap of bookish knowledge vs actual market knowledge. This will also enable entrepreneurship abilities in them.
Account Planning & Media Business	06	<ol style="list-style-type: none"> To understand the account planning process To understand the roles and responsibilities of an account planner / manager To have deeper insights into the functioning of the agency and the account planning team To understand the pitching process for



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		clients
Media & Consumer Behaviour :	06	<ol style="list-style-type: none"> 1. To understand the and analyze consumer buying behavior for account planning process. 2. To get details about various consumer buying behavior pattern. 3. To learn about consumer classification on basis of various factors. 4. To learn the intricacies of needs and desires and its effect on buying pattern.
: Strategic Brand Management :	06	<ol style="list-style-type: none"> 1. To understand the meaning and significance of brand management. 2. To know how to build and sustain brand. 3. To know various sources of brand equity. 4. To implement different strategies and manage brand
Advertising Agency Structure & Management	06	<ol style="list-style-type: none"> 1. To understand the structure of an advertising agency. 2. To learn about the various departments and their working 3. To get to know about various types of agency. 4. To understand agency revenue generation sources .
Media Planning and Buying :	06	<ol style="list-style-type: none"> 1. To understand the Media Planning & buying process. 2. To understand concepts of Reach & Frequency. 3. To learn the various media mix and its implementation. 4. To understand budget allocation for a media plan and fundamentals. 5. To learn to prepare a media plan and evaluate it.
Digital and Socials Media Advertising &Marketing :	06	<ol style="list-style-type: none"> 1. To understand the new developing avenues of advertising in the digital space. 2. To learn the dynamics and practical aspects of social media marketing and advertising. 3. To learn to build interactivity in advertising in the digital world. 4. To understand the importance of digital and web advertising



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**Rishi Dayaram and Seth Hassaram National College and Seth Wassiamull
Assomull Science College. Bandra (West), Mumbai – 400050.**



Faculty of Commerce

Criteria 2.6 Programme Outcomes – Course Outcomes



BACHELORS OF COMMERCE (B.COM)

1. *Name of Department:-* Faculty of Commerce
2. *Title of Programme:* **Bachelors of Commerce (B.Com)**

3. Program Outcome

- On successful completion of this course, there will be an increase in the decision making capability of the student both on a professional and professional front.
- This program may help Industries, Banks and Financial Institutions, Marketing Companies with well-trained professionals
- Students will acquire the required competence to start their own venture.
- Students shall gain expertise in the fields of Accountancy and Management.
- The knowledge of different specializations in Advanced Accountancy and Business Management will enable the students to contribute immensely to the organization they workfor.

4. Program Specific Outcome

- The students will be able to obtain knowledge and develop communication and decision-making skills that will help them to resolve day to day problems.
- The students can find employment opportunities in the field of Finance, Banking, Marketing, Transportation, Media on completion of B.Com
- This course will enable students to enroll for higher-level education in the field of Management and Commerce. The students may also undertake research work in the areas of Accountancy and Business Policy and Administration.
- The students can also use their knowledge and acquire professional qualifications like CA, CS, CWA, LLB, CFA. The students can also compete for UPSC, MPSC and other examinations conducted by Governmental Agencies.



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5. COURSE OUTCOMES – FYBCOM (Semester I and Semester II), SYBCOM (Semester III and Semester IV) and TYBCOM (Semester V and Semester VI)

Course Title	Course Credits	Course Objectives
Accountancy and Financial Management - I	04	<ol style="list-style-type: none"> 1. To introduce Accounting standards to the students and explain them in detail Accounting Standards 1,2 and 9 2. To teach the learners the types of expenditures and receipts and the essentials of preparing a Manufacturing Account 3. To inform them about Departmental Accounting and the principles of apportionment 4. To introduce the concept of Hire Purchase and accounting treatment in the books of Hirer
Commerce - I	03	<ol style="list-style-type: none"> 1. To introduce the concept of business and explain the learners about the objectives and new trends in business 2. To explain the various constituents of Business Environment 3. To explain the learners the process of business planning 4. To introduce the concept of entrepreneurship
Accountancy and Financial Management - II	04	<ol style="list-style-type: none"> 1. To teach them the procedure of Converting Incomplete Records into Double Entry Book Keeping Records 2. To inform them about Consignment and the Accounting Treatment in the books of consignor and consignee 3. To introduce the concept of Branch Accounting and different techniques of maintaining Branch Accounts in the books of Head Office. 4. To teach them the Computation of Claim in case of Loss due to Fire.



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Commerce - II	03	<ol style="list-style-type: none"> 1. To introduce the concept of services and marketing mix to the learners 2. To make the learners understand the concept of retailing and the current scenario of retailing in India and around the globe. 3. To make the learners aware of the recent trends in the service sector in India. 4. To explain to the learners about e-commerce, types of E-Commerce and the present status of E-Commerce in India.
Accountancy and Financial Management - III	04	<ol style="list-style-type: none"> 1. To teach the students Simple Final Accounts questions to demonstrate the effect on Final Accounts when a partner is admitted during the year or when a partner retires or dies during the year. 2. To introduce the concept of Piecemeal Distribution of Cash and inform the students about the accounting treatment for Secured Creditors and Preferential Creditors 3. To make students aware about the concept of Amalgamation of Partnership firm with accounting treatment in the books of vendor firm and purchasing firm. 4. To explain to the students the concept of Sale or Conversion of Firm into a Limited company and the approaches for distributing cash, shares and debentures amongst partners.



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Financial Accounting and Auditing – Introduction to Management Accounting	03	<ol style="list-style-type: none"> 1. To introduce the subject of Management Accounting to the students. 2. To teach the students different methods of analysis of Financial Statements and the interpretation of each method of analysis 3. To enable the learners to estimate the working capital requirements of an organisation. 4. To inform the students about the various methods of Capital Budgeting
Business Management – Marketing Management	03	<ol style="list-style-type: none"> 1. To inform the students about the need of Marketing Management and also explain them the emerging marketing opportunities in India 2. To make the students understand the concepts of competition and strategic marketing through Porters Five Force Model and SWOT Analysis 3. To educate the learners about the concept of product, product classification, product positioning and Product Life Cycle 4. To make the students aware about the concept of pricing, factors affecting pricing decisions, methods of Pricing, Steps in Pricing
Commerce - III	03	<ol style="list-style-type: none"> 1. To educate the learners about the concept of Management and also explain them the Modern Management Approach 2. To explain the learners in detail about the functions of Planning and Decision Making and Organising 3. To make the students aware about the concepts of Motivation, Leadership and Control



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Advertising - I	03	<ol style="list-style-type: none"> 1. To highlight the role of advertising for the success of brands and its importance within the marketing function of a company. 2. It aims to orient learners towards the practical aspects and techniques of advertising. 3. It is expected that this course will prepare learners to lay down a foundation for advanced post-graduate courses in advertising
Business Law I	04	<ol style="list-style-type: none"> 1. To provide a conceptual study about the framework of Indian Business Laws. 2. To orient students about the legal aspects of business 3. To familiarize the students with case law studies related to Business Laws
Accountancy and Financial Management - IV	04	<ol style="list-style-type: none"> 1. To introduce to students the basic terms related to Company Accounts and accounting treatment for issue of shares and debentures 2. To teach the students the Provisions of Companies Act for Redemption of Preference Shares and accounting treatment on Redemption. 3. To make students aware about methods of Redemption of Debentures and Accounting Treatment for Redemption of Debentures 4. To inform students about the determination of Profits Prior



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		to Incorporation of a company and teach them the principles for ascertainment.
Financial Accounting and Auditing - Auditing	03	<ol style="list-style-type: none"> 1. To introduce the basic concepts of Auditing 2. To make the learners aware of Audit Planning, the Procedure and Documentation 3. To introduce to the students the different techniques of Auditing and the concept of Internal Auditing
Business Management – Marketing Management	03	<ol style="list-style-type: none"> 1. To make the students about the concepts of Logistics, E-marketing and Online Retailing 2. To inform the learners about the concept of promotion and also highlight the role of social media in marketing communication 3. To introduce the topic of Consumer Behaviour to the students. 4. To educate the students about the marketing mix for service marketing and the current scenario of Rural Marketing in India



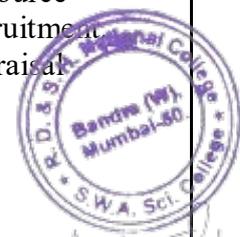
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Commerce - IV	03	<ol style="list-style-type: none"> 1. To acquaint the learners with the basic concepts of Production Management, Inventory Management & Quality Management. 2. To provide basic knowledge about Indian Financial Systems 3. To update the learners with the recent trends in Finance
Advertising - II	03	<ol style="list-style-type: none"> 1. To highlight the role of advertising for the success of brands and its importance within the marketing function of a company. 2. It aims to orient learners towards the practical aspects and techniques of advertising. 3. It is expected that this course will prepare learners to lay down a foundation for advanced post-graduate courses in advertising
Business Law - II	04	<ol style="list-style-type: none"> 1. To provide a conceptual study about the framework of Indian Business Laws. 2. To orient students about the legal aspects of business 3. To familiarize the students with case law studies related to Business Law



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Financial Accounting and Auditing – VII Financial Accounting	04	<ol style="list-style-type: none"> 1. To make the learners aware about the relevant provisions of the Companies Act, 2013 related to the preparation of Final Accounts (excluding Cash Flow Statement) 2. To inform the students about the need for Internal Reconstruction and also to teach them the accounting treatment for different methods of Internal Reconstruction in accordance with the relevant provisions of the Act. 3. To teach the students the basic legal provisions related to Buy Back of Shares 4. To discuss the Accounting Treatment for Investments in accordance with AS 13 5. To introduce the concept of ethical behaviour as perceived by the Accounting Professionals and introduce them to the IFAC Code of Ethics and the role of Whistle Blowers
Financial Accounting and Auditing – VIII – Cost Accounting	04	<ol style="list-style-type: none"> 1. To introduce the subject of Cost Accounting 2. To teach the learners about the basic elements of Cost – Material, Labour and Overheads 3. To educate the learners about Cost Sheet and the Reconciliation of Cost and Financial Records
Business Management III- Management, Organisation and Development	04	<ol style="list-style-type: none"> 1. To introduce the subject of Management 2. To educate the learners about Planning and Organisation 3. To inform the students about Human Resource Management and about Job Analysis, Recruitment Selection, Training and Performance Appraisal



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Business Management V – Financial Management	04	<ol style="list-style-type: none"> 1. To introduce the subject of Financial Management to the students. 2. To teach them the methods of analysis of Financial Statement 3. To discuss the sources of Finance and Cash Flow Statement
Commerce - V	03	<ol style="list-style-type: none"> 1. To introduce the subject of Marketing with the basic concepts. 2. To explain them the concept of Marketing Mix 3. To explain them Distribution and Supply Chain Management 4. To teach them about Marketing Ethics and recent trends in Marketing and also about the challenges to be encountered by the Marketing Managers in recent times
Export Marketing - I	03	<ol style="list-style-type: none"> 1. To introduce the subject of Export Marketing 2. To discuss the Global Framework for Export Marketing 3. To make them aware about the Indian's Foreign Trade Policy 4. To inform the learners about the Financial Incentives available to Indian Exporters and Institutional Assistance provided to them
Direct and Indirect Taxation - I	03	<ol style="list-style-type: none"> 1. To make the students aware about the basic concepts of Income Tax and the scope of Total Income and Residential Status 2. To educate the learners about the Heads of Income 3. To explain them the various deduction from Total Income 4. To teach them Computation of Total Income of Individual



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Financial Accounting and Auditing – IX – Financial Accounting	04	<ol style="list-style-type: none"> 1. To make the students aware about the Accounting Procedure to be adopted by a company in case of Amalgamation in accordance with Accounting Standard 14 2. To teach them computation and accounting treatment for Foreign Exchange Differences in accordance with Accounting Standard 11 3. To introduce the concept of Liquidation to the students and explain them the process of preparing Liquidators Final Statement of Account 4. To inform the students about Underwriters, Underwriting Commission and the Companies Act, 2013 provisions for payment of Underwriting Commission 5. To inform students about the Statutory Provisions of Limited Liability Partnership and the procedure for converting a partnership firm into a Limited Liability Partnership
Financial Accounting and Auditing – X – Cost Accounting	04	<ol style="list-style-type: none"> 1. To make students informed about Control Accounts 2. To discuss with the learners Process and Contract Costing 3. To educate them about Standard and Variable Costing 4. To teach them the emerging concepts of Cost Accounting
Business Management – IV Management and Organisation Development	04	<ol style="list-style-type: none"> 1. To educate the learners about directing and Leadership 2. To explain the learners about coordination, motivation and theories of motivation 3. To make students aware about Controlling and Information Management 4. To discuss the Contemporary Issues in Management



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Business Management – VI – Financial Management	04	<ol style="list-style-type: none"> 1. To explain them the concept of Capital Budgeting and its various methods 2. To educate them about Working Capital Management and the method of estimating Working Capital requirement. 3. To make the students informed about Cash Management, Management of Receivables and Marketing Securities 4. To educate the students about basic principles of Costing
Commerce - VI	03	<ol style="list-style-type: none"> 1. To introduce the subject of Human Resource Management to the learners 2. To inform them about the concepts of Human Resource Development 3. To educate them about theories of motivation and employee morale 4. To discuss with them about the emerging trends in Human Resource Management
Export Marketing - II	03	<ol style="list-style-type: none"> 1. To educate the learners about Product Planning and Pricing Decisions for Export Marketing 2. To discuss with the learner the process of Export distribution and Promotion 3. To make learners informed about the various types of finance in export 4. To discuss with them the procedure and documents required for Exports



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Direct and indirect Taxation - II	03	<ol style="list-style-type: none">1. To introduce the subject of Goods and Service Tax2. To inform the students about the levy and collection of Tax3. To discuss with the learners the concepts of time, place and value of supply4. To make the students informed about Input Tax Credit and Payment of Tax5. To inform the learners about Registration under Goods and Service Tax
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BACHELORS OF COMMERCE (ACCOUNTING & FINANCE)

Name of Department: Commerce

Title of Programme: **Bachelors of Commerce (Accounting & Finance)**

1. Programme Outcomes:

- To provide a detailed understanding of accounting and financial management with the help of updated and latest content
- To bring practical orientation to make the students ready to make a mark in the industry.
- To develop the analytical angle of the students helps the students to interpret and analyze the financial news and statements for the purpose of making decisions.

2. Programme Specific Outcomes:

<i>Sr. No.</i>	<i>Course Title</i>	<i>Course Credits</i>	<i>Course Outcome</i>
1	Financial Accounting – I Elements of Financial Accounting	3	<ol style="list-style-type: none">1. To understand Accounting standards 1, 2 and 92. To understand the concept of stock valuation3. To understand the difference between capital and revenue expenditure and receipt and their treatments on financial statements.4. To analyse departmental Accounts by considering all departments of the organisation



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2	Cost Accounting – Introduction and Elements of Cost-I	3	<ol style="list-style-type: none"> 1. To understand the objectives, scope, importance and advantages of cost Accounting. 2. To know the difference between cost, costing and cost accounting. 3. To understand the classification, allocation and apportionment of cost. 4. To know the essentials of good costing system. 5. To understand the concept of material cost and material control Procedure. 6. To know the Procedure for issue and Receipt of material. 7. To understand various stock levels, EOQ and methods of valuation of Inventory. 8. To understand the concept and composition of labour cost. 9. To understand the concept, classification, apportionment and absorption of Overheads on different bases.
3	Financial Management – Introduction to Financial Management – I	3	<ol style="list-style-type: none"> 1. To understand the basic terminologies used in Finance 2. To Interpret and calculate the EPS of companies and analyse the various leverages 3. To analyse the capital structure suitable for different types of industry and its implications on market price 4. To understand the cost of capital 5. To understand the important concept of Time value of money



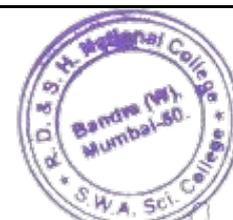
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4	Business Communication- I	3	<ol style="list-style-type: none"> 1. Development of basic formal communication skills including the use of language. 2. Students get introduced to communication channels. 3. Students can get acquainted to different communication methods and how to use them effectively. 4. Students learn various types (formats) of writing letters. 5. Concept of business ethics and corporate social responsibility can be introduced to students to develop values amongst them. 6. Quality of effective listening is developed.
5	Foundation Course -I	2	<ol style="list-style-type: none"> 1. To understand the concept of Indian Society 2. To understand the concept of disparity arising out of stratification and inequality. 3. Student gets detailed knowledge of the Indian Constitution and about Fundamental rights and duties. 4. To examine the inequalities due to caste system. 5. To understand Indian Political System.



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6	<p>Commerce</p> <p>Business Environment – i</p>	3	<ol style="list-style-type: none"> 1. To understand the Meaning, features, importance of Business objectives and factors affecting setting up of business objectives. 2. To understand Meaning, characteristics and components of Business environment and to know about SWOT analysis. 3. To understand Meaning, definition, nature, importance of business ethics and factors that influences Business ethics. 4. To know the role of corporate culture in ethics. 5. To understand the Meaning, need, factors and global perspectives of Business entrepreneurship and what is the role of entrepreneurship in economic development. 6. To know the Meaning of consumerism, effects of consumerism in India and to understand the consumer protection act 1956. 7. To understand the Meaning of CSR, forces affecting CSR and responsibilities towards different sections of the society. 8. To understand the Meaning of corporate governance, carbon credit, kyoto protocol and emmision markets. 9. To understand the Meaning, evolution, features and benefits of social audit. 10. To know what are the trends in India's foreign trade, what is FDI, need for FDI Policy in India, FDI routes and forms.
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7	Business Economics – I	3	<ol style="list-style-type: none"> 1. To understand the objectives, scope, importance and advantages of Micro-Economics 2. To understand the Demand and Supply Analysis 3. To understand the Theory of Production . 4. To know the Cost and Revenue Analysis 5. To understand the Market Structure . 6. To know the Pricing Practices, Market Failure and Project Planning.
8	Financial Accounting – Special Accounting Areas – II	3	<ol style="list-style-type: none"> 1. To analyse the Accounting of Proprietary Trading Concern and preparation of final accounts. 2. To understand the concept of consignment Accounting, parties involved in consignment process and various types of commission allowed to consignee. 3. To understand the accounting entries for branch maintained by the head office. 4. Ascertainment of claim as per the Insurance Policy in case of loss of stock by fire.
9	Auditing – Introduction and Planning – I	3	<ol style="list-style-type: none"> 1. To understand the concept of Auditing, objectives of Auditing, types of audit, types of errors and frauds and principles of Auditing. 2. To discuss with students various factors to be considered before commencing an audit. 3. To analyse various Auditing techniques used for collection of audit evidence. 4. To understand the concept of internal control system and internal audit



10	Innovative Financial Services	3	<ol style="list-style-type: none">1. To understand the Meaning, features, objectives, functions, types, significance of financial services.2. To know banking and non-banking companies and regulatory framework.3. To understand Meaning, objectives, characteristics, types of factoring, forfaiting, merchant banking.4. To know the various roles of intermediaries like underwriter, broker, sub broker, securitization, types of security.5. To understand the meaning, definition, characteristics, types, merits, demerits of lease and hire purchase.6. To understand housing Finance, housing finance industry, their policy, agency, institution, market and condition.7. To understand the meaning of consumer finance.8. To understand the meaning, merits, demerits, origin of consumer rating in India.
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11	Business Communication – II	3	<ol style="list-style-type: none"> 1. Students can develop skills for formal communication in an organisation. 2. Students are taught how to prepare and make effective use of PowerPoint presentations. 3. Students learn how to draft various notices and meeting agendas. 4. Students learn how to communicate with various concerned entities (suppliers, creditors, customers, government agencies) 5. They can learn the techniques of drafting and designing promotional and sales leaflets. 6. Students learn how to organize a conference through various communication channels. 7. Students can understand function of Public Relations department.
12	Foundation Course – II	2	<ol style="list-style-type: none"> 1. To make the students understand the concept of liberalization, privatization and globalization. 2. To make them aware about the concept of human rights and fundamental rights stated in the constitution. 3. To discuss with them the concept of environment, ecology and their Inter connectedness. 4. To understand the concept of stress and conflict and significance of values & ethics in individual and society.



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13	Business Law – Business Regulatory Framework – I	3	<ol style="list-style-type: none"> 1. To understand the meaning, nature and classification of contract. 2. To know the meaning of offer, acceptance, free consents, consideration, indemnity, guarantee, bailment and pledge. 3. To understand the legal provisions for sale of goods as per sale of goods act 1930. 4. To understand the meaning of goods, price, condition and warranties as per the act. 5. To know the meaning of unpaid seller and rights of unpaid seller, sale by auction, hire purchase agreement. 6. To understand the Meaning and features of negotiable instruments as per the act. 7. To know the various kinds of negotiable instruments like promissory notes, bills of exchange, cheque etc. 8. To understand the meaning, defination and features of consumer as per consumer protection act 1986. 9. To know various rights of consumer as per consumer protection act 1986.
14	Business Mathematics	3	<ol style="list-style-type: none"> 1. To understand the business perspective of Ratio and proportion 2. To analyse the rate of implementing profit and loss percentage and marking up the cost price and selling price 3. To understand concepts of present value, Interest and annuity 4. To learn the calculations of dividend, brokerage, share price.



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1 5	Financial Accounting (Special Accounting Areas)-III	3	<ol style="list-style-type: none"> 1. To understand the Accounting treatment in case of admission, retirement or death of a partner in partnership firm. 2. To know the treatment of assets and settlement of liabilities in case of dissolution of firm. 3. To understand the Accounting Procedure for amalgamation of firms. 4. To know the meaning of purchase consideration, calculation of purchase consideration, adjustment of goodwill in new firm under amalgamation. 5. To understand the Accounting treatment in case of conversion of partnership firm into limited Company. 6. To understand the provisions of AS - 11 regarding Accounting of transactions of foreign currency. 7. To understand the effects of changes in foreign exchange rates and treatment of exchange rate differences.
1 6	Cost Accounting (Methods of Costing) –II	3	<ol style="list-style-type: none"> 1. To understand the meaning of cost of sales, cost centre, cost unit, profit centre etc 2. To understand the steps and elements of cost in preparation of cost sheet. 3. To know the Procedure for reconciliation of cost and Financial Accounts. 4. To understand the concept of contract costing and Process costing. 5. To know the meaning of retention money, abnormal gains and losses, joint products and by- products etc.



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17	Taxation-II(Direct TaxesPaper -I)	3	<ol style="list-style-type: none"> 1. To understand terminologies in Income tax Act, 1961 2. To understand the various heads of income 3. To discuss the different deductions, exemptions & Allowances available 4. To analyses the different situations in Income tax
18	Information Technology in Accountancy-I		<ol style="list-style-type: none"> 1. To understand the basics of computer. 2. To understand the operations of MS Excel, word and Powerpoint. 3. To learn the mechanism of E- commerce. 4. To understand the concept of Database Management 5. To Understand the concept of Search Engine Optimization (SEO)
19	Foundation Course (financial Market Operations) An Overview of the Financial System	2	<ol style="list-style-type: none"> 1. Students get introduced to primary and secondary market. 2. They can be introduced to and understand various financial instruments prevailing in financial market. 3. Students learn various aspects of money market. 4. Students can learn in detail about mutual funds and derivatives
20	Business law (Business Regulatory Frame work)-II	3	<ol style="list-style-type: none"> 1. To understand the laws applicable to Business 2. To understand the laws for partnership firm and LLP 3. To discuss the condition necessary for factories under Factories Act



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21	Business Economics - II	3	<ol style="list-style-type: none"> 1. To understand the Meaning, features, objectives, functions, types, significance of Micro-,Economics. 2. To understand Macroeconomics: Nation Income, Theory of Income and Employment. 3. To know the Monetary Economics. 4. To understand the Integration of Product and Money Market Equilibrium . 5. To understand Public Finance . 6. To understand the International Trade, Balance of Payment and WTO .
2	Financial Accounting (Special Accounting Areas)-IV	3	<ol style="list-style-type: none"> 1. To understand the provisions of Companies Act related to preparation of final Accounts. 2. To understand the provision of the companies act for redemption of preference shares and debentures. 3. To make the students understand the concept of profit prior to incorporation and how to Ascertain the Profit Prior to incorporation. 4. To understand the provisions of AS - 11 regarding the conversion of branch trail balance in reporting currency.



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23	Management Accounting (Introduction to Management Accounting)	3	<ol style="list-style-type: none"> 1. To understand the meaning, features, scope, importance, functions and role of Management Accounting. 2. To analyse and interpret vertical form of balance sheet and profit & loss a/c, trend analysis, comparative statement and common size statement. 3. To understand the meaning of financial statement analysis 4. To study various types of balance sheet ratios, revenue statement ratios and combined ratios and advantages and limitations of these ratios. 5. To study the preparation of cash flow statement with reference to AS - 3. 6. To understand the meaning , concept, nature of working capital, planning of working capital and projection of working capital requirement.
24	Taxation - III (Direct Taxes- II)	3	<ol style="list-style-type: none"> 1. To understand the slab tax structure in India 2. To learn the ways of clubbing of Income, double taxation 3. To learn the calculations of TDS, advance tax and TCS 4. To independently calculate tax payable by taking all exemptions and deductions into consideration.

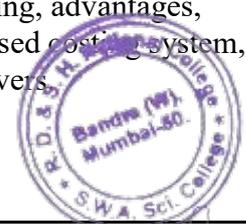


25	Information Technology in Accountancy-II	3	<ol style="list-style-type: none"> 1. To understand the concept, flow and classification of Business Process, principles and importance of BPM and BPA. 2. To make them aware about the need & requirements of computerized Accounting system. 3. To analyse various Accounting softwares and uses and advantages of those Accounting softwares. 4. To understand the concept of MIS reports in computer environment. 5. To discuss with students the importance of IT in Auditing.
26	Foundation Course in Management (Introduction to Management)-IV	2	<ol style="list-style-type: none"> 1. Students understand how management principles are related to accounts and finance 2. It makes them understand various processes involved in business. 3. Benefits of delegation and departmentation is understood. 4. Students learn various forms of organisational structures. 5. Students learn qualities of a good manager (leadership qualities) 6. Importance of teamwork is understood.
27	Business Law (Company Law) - III	3	<ol style="list-style-type: none"> 1. To understand the changes incorporated in companies Act , 2013 2. To understand the Terms of Companies Act, 2013. 3. To analyse the procedure in incorporating the company 4. To discuss various Negotiable Instrument Act 1881, Law of Contract Act 1872, Sale of Goods act 1930, Consumer Protection Act 1986. 5. To analyse the different kinds of capital needed by companies



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28	Research Methodolog in Accounting and Finance	3	<ol style="list-style-type: none"> 1. To understand the meaning, objectives, features and importance of Research in Accounting and finance. 2. To know the objectives and types of Research, formulation of Research problem, review of literature. 3. To understand the meaning, need and types of Research design. 4. To study how to formulate hypothesis, sources of hypothesis and importance of hypothesis. 5. To study the meaning and types of data. 6. To understand the meaning of primary data, secondary data, sampling and data presentation. 7. To understand the meaning of Research report, importance, essential, structure and types of Research report.
29	Cost Accounting – III	3	<ol style="list-style-type: none"> 1. To understand the meaning and need for uniform costing, essential, advantages and limitations of uniform costing. 2. To understand the meaning, features, advantages and disadvantages of integrated and non-integrated system of Accounts. 3. To know the journal entries and methods of preparing ledger Accounts under integrated and non-integrated system of Accounts. 4. To understand the meaning of operating costing, determination of per unit cost, pricing of services, costing of hospitals, hotels, goods and passenger transport service. 5. To understand the meaning of Process costing, to know the valuation of work in progress, equivalent production and Inter Process transfer of profit. 6. To understand the meaning, advantages, limitations of activity based costing system, identification of cost drivers.



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30	Financial Management -II	3	<ol style="list-style-type: none"> 1. To understand the financial implications from companies perspective 2. To analyze investment decisions through capital budgeting techniques 3. To analyse working capital management through different methods 4. To show the impact of dividend decisions on share price
31	Taxation – IV (Indirect Taxes – II)	3	<ol style="list-style-type: none"> 1. To Understand the concept of Goods and Service Tax (GST). 2. Registration under GST Act 2017. 3. To understand the meaning of Place of supply, time of supply and value of supply under CGST Act 2017. 4. Meaning of Input Tax Credit (ITC) and methods of utilizing ITC. 5. Computation of Tax Liability under GST Act 2017. 6. To understand the difference between mixed supply and composite supply.
32	Management- II (Management Applications)	3	<ol style="list-style-type: none"> 1. To understand the concept of Management, role, features, objectives of Management. 2. To understand hierarchy of Management. 3. To discuss various types of leadership style 4. To discuss various theory of Management



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33	Financial Accounting - V	3	<ol style="list-style-type: none">1. To understand the meaning of mergers and acquisition and Advantages and difference between Mergers and Acquisitions.2. To understand the need of Internal reconstruction.3. To understand the Liquidation process and order of payment of liability.4. To understand the meaning, Advantage and disadvantages of computerized Accounting.5. To highlights the difference between partnership and Limited Liability partnership and accounting treatment for both.
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34	Financial Accounting – VI	3	<ol style="list-style-type: none"> 1. Describe the context of banking: the financial system. 2. Explain the principles of banking. 3. Elucidate the broad functions of banks. 4. Analyse and explain the basic raison d'etre for banks. 5. Describe the components of the balance sheets of banks. 6. Elucidate the liability and asset portfolio management "problem" of banks. 7. Analyzing current insurance coverage and potential needs. 8. Tips for choosing an insurance carrier. 9. Specialized insurance and policies you might not need. 10. Understand the nature and sources of goodwill. 11. \Appreciate the need for valuing goodwill. 12. Understand the terms: future maintainable profit; normal rate of return; capital employed and average capital employed. 13. Determine average capital employed under different methods. 14. Value goodwill by average profits method; super profit method and capitalization method. 15. To document the growth and development of Non-Banking Financial Companies. 16. To evaluate the performance of Sundaram Finance Limited and Lakshmi General Finance Limited; 17. To bring to light the perceptions of the sample customers about the functioning of NBFCs. 18. To offer concrete suggestions to tide over such problems of NBFCs and customers.
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35	Cost Accounting – IV	3	<ol style="list-style-type: none"> 1. To understand the meaning objectives, significance and various types of budgets, Budgetary and budgetary control. 2. To understand the state of affairs compared with budget. 3. To know any deviation and take appropriate action. 4. To understand the meaning, objectives and role of marginal costing. 5. To understand the role, objectives of break even analysis, margin of safety and individual contribution of each cost. 6. To know the determination of profit by appropriate managerial decision regarding regulatory cost. 7. To understand meaning, objectives, role of Standard costing. 8. To understand various factors of production, material, labour, Overheads etc.
36	Financial Management - III	3	<ol style="list-style-type: none"> 1. To understand the different easy ways for analysing value of shares 2. To analyse the new credit services against credit management facilities of the company 3. To analyse lease, Hire purchase or loan as better investment option for investment decisions 4. To analyse the impact of share price in mergers and acquisitions.



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37	Taxation - Paper V (Indirect Taxes – III)	3	<ol style="list-style-type: none"> 1. To analyse the computation of tax liability, Payment of tax, interest and other amount. 2. To make students aware about various types of returns and provisions relating to filling of returns. 3. To understand the concept of accounts, audit by tax authorities and assessment of records. 4. To understand the concept of custom law, levy of and exemptions from custom duties and types of custom duties. 5. To know the Procedures under custom act including import and Export Procedures.
38	Economics Paper – III (Indian Economy)	3	<ol style="list-style-type: none"> 1. To understand the Introduction, To Indian Economy . 2. To know the povrty ,income inequality,unemployment,urbanization and its effects 3. To understand the Demographic Agricultural and Industrial Sectors. 4. To understand the Service Sector, External Sectors. 5. To know the Money and Banking .
39	Financial Accounting – VII	3	<ol style="list-style-type: none"> 1. To understand the meaning of Accounting Standard (AS), Ind-AS, and IFRS and difference between them 2. To understand different forms of Mutual fund with calculation of NAV and portfolio management. 3. Introduction to Electricity company final Accounts with treatment of Depreciation of Assets



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40	Project Work	3	1. To take up research projects in the areas in which the students want to explore their interest in the particular field by critical evaluation with scientific temper.
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MANAGEMENT STUDIES

1. *Name of Department:* Department of Management Studies

2. *Title of Programme:* BMS

3. *Programme Outcomes:*

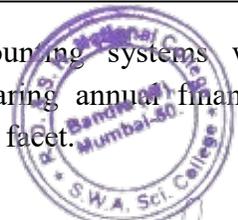
- Enable learners to explore diverse careers in global management, governance, finance, marketing and helps to develop entrepreneurial skills
- Ability to lead in all fields of management including digital, media, marketing, finance, accounting, and operations
- Enable learners to develop presentation skills, problem-solving skills and leadership skills.

4. *Programme Specific Outcomes:*

- To educate students with proficiency in core areas of Management Education and Financial Management to comprehend trade-offs in decision making process; to analyze, design, and synthesize data and technical concepts to create solutions for the real-life problems.
- To instill in students a sense of high professionalism, to work as part of teams on multidisciplinary projects and diverse professional environments, needed for a successful professional career and relate management issues to the society, global economy and to emerging technologies
- To provide students with a learning environment consciousness of the life-long learning process, to develop effective oral and written communication skills.

5. *Course Outcomes:*

Title of the course	Course credit	Course outcome
Introduction to Financial Accounts	03	1. Be proficient in the financial accounting systems with specialized practical knowledge on preparing annual financial statement of a corporate body and its entire facet.



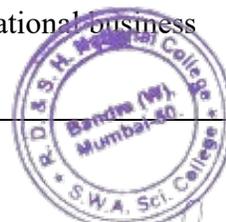
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		2. Understanding of assets, liabilities, reconciliation, capital and revenue expenditure, depreciation and maintenance of various financial documents.
Business Law	03	1.To acquaint the learners with the knowledge of various Acts and its significance and to understand business situations from a legal perspective 2. To apply knowledge of legal procedures related with routine business operations of an enterprise.
Business Statistics	03	1. To develop the student's ability to deal with numerical and quantitative issues in business. 2. To enable the use of statistical, graphical, and algebraic techniques wherever relevant. 3. Ability to design data collection plans, analyze data appropriately and interpret and draw conclusions from those analyses and thus employ and build a reliable platform for decision making.
Business Communication – I	03	1. To acquaint the students with the various methods and modes of Communication. Also, to enable students to demonstrate the ability of evaluating, analyzing and interpreting information to make reasoned business decisions through learning of business letters, personnel correspondence and language and writing skills.
Foundation Course – I	02	1. To help the students to upgrade their knowledge on current challenges and issues of Indian society. 2. To sensitize students about social problems plaguing Indian society and to emphasize the role of educated youth to address the same. 3. To enable learners to comprehend various dimensions of Indian society, knowledge regarding disparities, Philosophy of the constitution and significant aspects of political processes.
Foundation of Human Skills	03	1. To enable learners to have self-knowledge i.e., understanding of human nature and the ability to apply this knowledge to enhance effectiveness; understand and apply leadership skills, team-based knowledge, conflict management and negotiation skills required to achieve individual and institutional objectives.



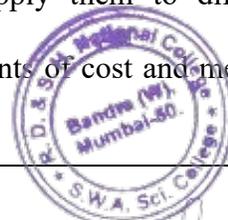
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Business Economics - I	03	1. To enable the learners to Relate the basic economic theory and principles to current microeconomic issues & to use economic models to analyze a situation in terms of economics. To understand the importance, causes and impact of population growth and its distribution, translate and relate them with economic development.
Principles of Marketing	03	1. To enable the learners to formulate general marketing strategy using 4Ps model and STP, understanding marketing strategies and digital marketing.
Industrial Law	03	1. To develop understanding among learners about the business situations from a legal perspective and apply knowledge of legal procedures related with routine industrial operations of business.
Business Mathematics	03	1. To enable the learners to implement the basic business mathematics concepts and theories in other subjects related such as finance and accounting. 2. To adopt and apply the business mathematics basic knowledge in their daily activities. 3. Solve problems in the areas of financial and economics functions, derivatives, simple and compound interest, EMI calculations, annuity, trend line and time value of money.
Business Communication - II	03	1. To inculcate basic professional writing techniques by developing a practical approach to utilize the principles of business correspondence. 2. To carry out the basics of Presentations, Group Discussion & Interview Etiquette. 3. Ability to apply business concepts of written communication in various related business issues
Foundation Course - II	02	1. To enable the learners to comprehend the concept of LPG, growth and evolution of human rights, ecology and ability to understand causes and management of stress.
Business Environment	03	1. To analyze the changes introduced in the components of environment of business internally and externally and understanding their impact on the enterprise. 2. To demonstrate and develop conceptual framework of business environment and generate interest in international business



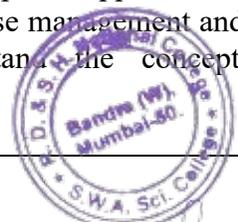
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Principles of Management	03	1. To enable the learners to apply the knowledge of management theories, functions and process in day to day business activities of an enterprise.
Accounting for Managerial Decisions	03	1. To develop financial analysis skills among learners by enabling the learners to analyze the financial statements of an enterprise using vertical approach and various techniques like comparative statements, common size, trend analysis, ratio analysis and other management accounting techniques of working capital management, cash flow statement and Receivables management.
Strategic Management	03	1. Ability to analyze strategic micro and macro environmental issues, analyze industry factors and identify their impact on strategic positioning, evaluate SBU strategies and analyze and implement strategies at the business unit level. Understanding and evaluating business strategies.
IT for Business - I	03	1. To develop understanding among the learners of the basic concepts of Information Technology, its support and role in Management. 2. To provide practical hands-on training for the use of MS Office, Emails, electronic transactions, Internet and websites, domains, and security therein.
Business Planning & Entrepreneurship Management	03	1. To apply the knowledge of entrepreneurship and preparing project report and setting up of own business enterprise and thus exploring the opportunity of self-employment. 2. Understanding the Business portfolios of entrepreneurs and strategies they implemented. 3. To understand various steps involved in starting a venture and to explore marketing methods & new trends in entrepreneurship.
Foundation Course – III (Environment Management)	02	1. To develop understanding among the learners about the impact of environmental issues and the concept of sustainability. 2. To acquaint the learners with Innovations in business with an environmental perspective.
Introduction to Cost Accounting	03	1. To enable the students to understand the principles and procedure of cost accounting and to apply them to different practical situations. 2. To acquaint the learners with the elements of cost and methods of cost projection.



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Corporate Finance	03	1. To provide understanding of nature, importance, structure of corporate finance related areas and to impart knowledge regarding source of finance for a business. Conceptualizing the framework of finance function and acquainting the learners with the tools and techniques and process of financial management in the realm of financial decision making.
Advertising	03	1. Getting acquainted with the theories of advertising and latest tools for the construction of an effective advertisement and exploring opportunities of career in advertising along with latest trends in advertising from evaluating advertisements to creating advertisements and analyzing their impact on the target audience
Consumer Behavior	03	1. To develop understanding among learners about the consumer decision making process and its applications in marketing function of firms and analyzing consumer information for using it to create consumer-oriented marketing strategies.
Business Research Methods	03	1. To demonstrate knowledge of research processes, perform literature reviews, compare and contrast quantitative and qualitative research paradigms, describe, compare, and contrast descriptive and inferential statistics' 2. To describe sampling methods, measurement scales and instruments, and appropriate uses of each and finally to conduct the research independently.
Business Economics – II	03	1. To enable the learners to understand the concepts of national income, calculate methods of national income, and concepts related to national income and interpret macroeconomic issues such as money, foreign exchange, inflation, unemployment, economic growth and foreign trade.
Production and Total Quality Management	03	1. To acquaint the learners with the basic management decisions with respect to production and quality management. To understand the many philosophies and strategies for ensuring Improved productivity and Total Quality Management.
IT for Business - II	03	1. To develop understanding about emerging MIS technologies like ERP, CRM, SCM and trends in enterprise applications and understanding relationship between database management and data warehouse approaches and to understand the concepts of Outsourcing as well as cloud computing.



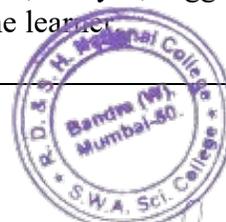
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Foundation Course – IV (Ethics and Governance)	02	1. To develop understanding among the learners of the emerging need and growing importance of good governance and CSR by organizations and to acquaint the learners with ethical business practices, CSR and Corporate Governance practiced by various organizations.
Financial Institutions and Markets	03	1. To acquaint the learners with basic knowledge about the structure, role and functioning of financial institutions and markets in the financial system in India.
Auditing	03	1. To acquaint students with the various concepts and techniques of auditing. To develop understanding among learners about Errors & Frauds in Auditing, Types of Audit and the Principles of Audit.
Integrated Marketing Communication	03	1. Ability to use the various tools of IMC to develop effective marketing communication program. 2. Applying each tool on business to understand its impact on sales and reach.
Rural Marketing	03	1. To make the students aware about emerging challenges and the opportunities in the upcoming global economic scenario with respect to the Rural Markets and to learn the various strategies of Rural Marketing.
Logistics & Supply Chain Management	03	1. To enable the learners to understand fundamental logistics and supply chain management concepts and to apply knowledge to evaluate and manage an effective supply chain. 2. To acquaint the learners with the global trends in logistics and supply chain management.
Corporate Communication and Public Relations	03	1. To provide the students with basic understanding of the concepts of corporate communication and public relations. 2. To acquaint the learners with Functions and Emerging Technology in Corporate Communication and Public Relations such as Corporate Blogging and Really Simple Syndication.
Investment Analysis and Portfolio Management	03	1. To develop understanding among learners of different avenues of investments and learning to apply the decision for making portfolios with risk and returns profile of investors.
Wealth Management	03	1. Understanding various aspects of wealth management including insurance planning, retirement planning, real estate management taxation and Investments. Getting acquainted with the importance of client's portfolio management essential for creation of wealth.



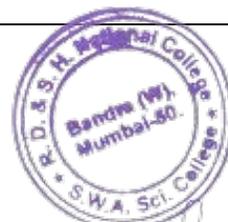
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Direct Tax	03	1. To develop understanding among learners with the basic concepts, definitions and terms related to direct taxation and to enable the learners to calculate taxable income of an individual and file the income tax returns independently.
Commodity and Derivatives Market	03	1. To develop understanding of the concepts related to Commodities and Derivatives market.To acquaint learners with the trading, clearing and settlement mechanism in derivate market.
Sales and Distribution Management	03	1. Getting acquainted with the concepts of market analysis and selling, managing distribution channels and evaluation of marketing distribution channel performance. Understanding selling skills and application of the same
Service Marketing	03	1. To plan and implement marketing strategies for service industries based on 7Ps model, Demand and capacity management and productivity issues in services. 2. To provide insight into ways to improve service quality and productivity. 3. To understand distinctive features of services and key elements in services marketing.
Strategic Marketing Management	03	1. To acquaint the learner with strategic tactics applied by successful companies globally and locally. 2. To understand business models, dynamic environment, marketing strategies and tactics for successful business.
E-Commerce & Digital Marketing	03	1. To enable the learners to apply digital marketing tools to plan and implement ecommerce and digital marketing solutions of a business unit. 2. To understand Latest Trends and Practices in E-Commerce and Digital Marketing, along with its Challenges and Opportunities for an Organization.
Operations Research	03	1.Ability to derive optimum solutions in the area of operations using Linear programming (Graphical and Simplex methods), Transportation model, Assignment models, Game theory, Decision making and Networking with the use of CPM and PERT models.
Project Work	03	1. Ability to conduct research independently in area of marketing or finance in case of research-based project. In case of internship-based project ability to critically comprehend, analyze, suggest and recommend on the job role performed by the learner.



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International Finance	03	1. Ability to deal in foreign exchange markets through forex arithmetic and understand various dimensions of international finance like BOP, monetary systems, international equity markets, bond markets, Foreign capital, Tax havens, Risk management and Project appraisal.
Innovative Financial Service	03	1. To give a comprehensive overview of emerging financial services in the light of globalization and to acquaint the learners with the knowledge of innovations in the Financial sector along with the creating an awareness of the role, functions and functioning of financial services.
Indirect Taxes	03	1. To make the students understand the basic concepts, definition and terms related to GST and to help them compute GST.
Strategic Financial Management	03	1. Ability to apply financial decision-making tools in order to achieve the strategic objectives of a business unit including dividend distribution models, working capital management and appraisal of investment proposals.
International Marketing	03	1. To enable learners to get acquainted with the knowledge of marketing in the global world including areas like international branding, pricing, advertising, distribution and market entry strategies.
Brand Management	03	1. Understand branding, evaluating branding strategies of companies and ability to plan and implement brand marketing program, measuring and interpreting brand performance and growing brand equity. Application of branding concepts in real life.
Media Planning	03	1. Getting familiar with the concepts of media mix and media strategy, media budgeting, buying and selling and media measurement and evaluation with current trends in the media industry
Retail Management	03	1. To understand the behavior of retails consumer, framing of retail strategy, merchandise management and pricing and managing and sustaining the retail business in the contemporary times.



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BUSINESS MANAGEMENT

1. *Name of Department:* **Masters of Commerce**

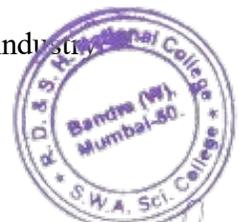
2. *Title of Programme:* **Masters of Commerce – Business Management**

3. *Programme Outcomes:*

- Fundamental knowledge in different functional areas of management, managerial principles, economic theory and quantitative techniques of decision-making like Statistics and Operations Research are imbibed by the students
- Managerial skill of the students are developed by adopting practical approaches such as case study, business games, assignment writing and application of digital technology
- Students get adequate exposure to operational procedures in Finance, Marketing, HRD, Banking, Insurance, Accounting, Taxation, International Business and Operations Management.
- Enable learners to develop presentation skills, problem-solving skills and leadership skills.

4. *Programme Specific Outcomes:*

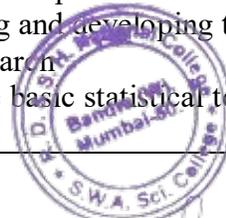
- Students develop the ability to comprehend and imbibe core and functional management concepts, business environment and domain specific knowledge.
- Equip the students with requisite knowledge, skills and right attitude necessary to provide effective leadership in a global environment.
- Develop competent management professionals with strong ethical values, capable of assuming a pivotal role in various sectors of the Indian Economy and Society, aligned with the national priorities.
- Develop skills for analyzing of the business data, application of relevant analysis, and problem solving in other functional areas such as marketing, finance, business strategy and human resources etc.
- Develop attributes for research in academics and applied research for industry.



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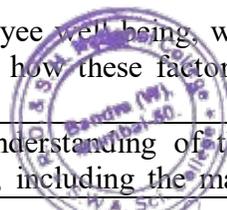
5. Course Outcomes:

Title of the course	Course credit	Course outcome
Semester I		
Strategic Management	06	<ol style="list-style-type: none"> 1. To enable the learners to understand new forms of Strategic Management concepts and their use in business 2. To provide information pertaining to Business, Corporate and Global Reforms 3. To develop learning and analytical skills of the learners to enable them to solve cases and to provide strategic solutions 4. To acquaint the learners with recent developments and trends in the business corporate world
Economics for Business Decisions	06	<ol style="list-style-type: none"> 1. This course is designed to equip the students with basic tools of economic theory and its practical applications 2. The course aims at familiarizing the students with the understanding of the economic aspects of current affairs and thereby prepares them to analyze the market behavior with economic way of thinking 3. To provide an insight into application of economic principles in business decisions 4. To widen analytical ability of the students and to provide them a foundation for further study of economics
Cost and Management Accounting	06	<ol style="list-style-type: none"> 1. To enhance the abilities of learners to develop the concept of Cost and management accounting and its significance in the business 2. To enable the learners to understand, develop and apply the techniques of costing in the decision making in the business corporates 3. To enable the learners in understanding, developing, preparing and 4. presenting the financial report in the business corporates
Business Ethics and Corporate Social Responsibility	06	<ol style="list-style-type: none"> 1. To familiarize the learners with the concept and relevance of Business Ethics in the modern era 2. To enable learners to understand the scope and complexity of Corporate Social responsibility in the global and Indian context
Semester II		
Research Methodology for Business	06	<ol style="list-style-type: none"> 1. To enhance the abilities of learners to undertake research in business & social sciences 2. To enable the learners to understand, develop and apply the fundamental skills in formulating research problems 3. To enable the learners in understanding and developing the most appropriate methodology for their research 4. To make the learners familiar with the basic statistical tools and techniques applicable for research



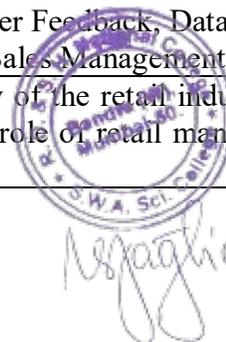
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Macro Economics Concepts and Applications	06	<ol style="list-style-type: none"> 1. To enable the learners to grasp fully the theoretical rationale behind policies at the country as well as corporate level 2. To instill a firm grounding on the basic macro-economic concepts that strengthen analysis of crucial economic policies
Corporate Finance	06	<ol style="list-style-type: none"> 1. To enhance the abilities of learners to develop the objectives of Financial Management 2. To enable the learners to understand, develop and apply the techniques of investment in the financial decision making in the business corporates 3. To enhance the abilities of learners to analyze the financial statements
E-Commerce	06	<ol style="list-style-type: none"> 1. To provide an analytical framework to understand the emerging world of e-commerce 2. To make the learners familiar with current challenges and issues in e-commerce 3. To develop the understanding of the learners towards various business models 4. To enable to understand the Web- based Commerce and equip the learners to assess e-commerce requirements of a business 5. To develop understanding of learners relating to Legal and Regulatory Environment and Security issues of E-commerce
Semester III		
Entrepreneurial Management	06	<ol style="list-style-type: none"> 1. To develop a comprehensive understanding of the concepts, theories, and principles of entrepreneurship. 2. To understand the role of innovation, creativity, risk-taking, and opportunity recognition. 3. To analyze the changes introduced in the components of environment of the business internally and externally and understanding their impact on the enterprise. 4. To acquaint the learners about the assistance and incentives for Promotion and Development of Entrepreneurship
Organizational Behaviour	06	<ol style="list-style-type: none"> 1. To help students comprehend the various factors that influence individual behavior, motivation, perception, and attitudes within an organizational setting. 2. To introduce students to the concept of organizational culture and its impact on employee behavior, job satisfaction, and overall performance. 3. To explore how individuals interact in groups and teams, including aspects such as leadership, communication, decision-making, and conflict resolution. 4. To highlight the importance of employee well-being, work-life balance, and stress management, and how these factors affect both individuals and the organization.
Marketing Strategies and Practices	06	<ol style="list-style-type: none"> 1. To provide students with a solid understanding of the core principles and concepts of marketing, including the marketing



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		<p>mix (product, price, place, promotion), market segmentation, targeting, and positioning.</p> <ol style="list-style-type: none"> To cultivate strategic thinking skills by teaching students how to analyze market trends, competitive landscapes, and consumer behaviors to formulate effective marketing strategies. To explore the psychological and sociological factors that influence consumer decision-making, helping students understand how to tailor marketing strategies to target audiences. To provide insights into the challenges and opportunities of marketing in a global context and to cover the essentials of e-marketing, social marketing and digital marketing.
Project Work	06	<ol style="list-style-type: none"> To enable the learners to conduct research independently in the area of their interest in case of research-based projects. In the case of internship-based project ability to critically comprehend, analyze, suggest and recommend on the job role performed by the learner To encourage students to identify and address challenges and obstacles that arise during research or internship project, promoting critical thinking and problem-solving abilities. To provide students with a practical learning experience that bridges the gap between theory and application.
Semester IV		
Supply Chain Management and Logistics	06	<ol style="list-style-type: none"> To emphasize the importance of collaboration and integration among various supply chain partners, including suppliers, manufacturers, distributors, and retailers. To introduce students to the concepts and components of logistics, including transportation, inventory management, warehousing, distribution, and order fulfillment. To examine the challenges and opportunities of managing supply chains on a global scale, including issues related to customs, regulations, and cultural differences.
Advertising and Sales Management	06	<ol style="list-style-type: none"> To aid the learners in exploring various advertising methods, creative strategies, and media channels used to reach target audiences and promote products or services. To provide insights into creating compelling advertising content, including copywriting, visual design, storytelling, and the use of multimedia elements as well as the regulatory framework for advertising. To discuss sales management principles, sales planning, sales controlling and sales force management. To delve on the importance of Customer Feedback, Data Mining and the Role of IT for the purpose of Sales Management.
Retail Management	06	<ol style="list-style-type: none"> To provide students with an overview of the retail industry, its significance in the economy, and the role of retail managers in delivering value to customers.



		<ol style="list-style-type: none"> 2. To explore marketing strategies specifically tailored for the retail industry including Promotional Strategies, Retail Planning Process and Retail - Market Segmentation. 3. To explore store layout design principles, visual merchandising techniques, and how store aesthetics can influence customer experience. 4. To acquaint the students with the integration of technology, such as Electronic Data Interchange (EDI), Radio Frequency Identification (RFI), Data Base Management system, and the concept of Green Retailing.
Project Work II	06	<ol style="list-style-type: none"> 1. To enable the learners to conduct research independently in the area of their interest in case of research-based projects. 2. In the case of internship-based project ability to critically comprehend, analyze, suggest and recommend on the job role performed by the learner 3. To encourage students to identify and address challenges and obstacles that arise during research or internship project, promoting critical thinking and problem-solving abilities. 4. To provide students with a practical learning experience that bridges the gap between theory and application.



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M.COM ADVANCED ACCOUNTANCY

1. *Name of Department:* **Masters of Commerce**

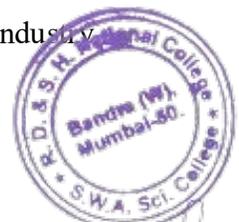
2. *Title of Programme:* **Masters of Commerce – Advanced Accountancy**

3. *Programme Outcomes:*

- Fundamental knowledge in different functional areas of management, managerial principles, economic theory and quantitative techniques of decision-making like Statistics and Operations Research are imbibed by the students
- Managerial skill of the students are developed by adopting practical approaches such as case study, business games, assignment writing and application of digital technology
- Students get adequate exposure to operational procedures in Finance, Marketing, HRD, Banking, Insurance, Accounting, Taxation, International Business and Operations Management.
- Enable learners to develop presentation skills, problem-solving skills and leadership skills.

4. *Programme Specific Outcomes:*

- Students develop the ability to comprehend and imbibe core and functional management concepts, business environment and domain specific knowledge.
- Equip the students with requisite knowledge, skills and right attitude necessary to provide effective leadership in a global environment.
- Develop competent management professionals with strong ethical values, capable of assuming a pivotal role in various sectors of the Indian Economy and Society, aligned with the national priorities.
- Develop skills for analyzing of the business data, application of relevant analysis, and problem solving in other functional areas such as marketing, finance, business strategy and human resources etc.
- Develop attributes for research in academics and applied research for industry.



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5. Course Outcomes:

Title of the course	Course credit	Course outcome
Semester I		
Strategic Management	06	<ol style="list-style-type: none"> 1. To enable the learners to understand new forms of Strategic Management concepts and their use in business 2. To provide information pertaining to Business, Corporate and Global Reforms 3. To develop learning and analytical skills of the learners to enable them to solve cases and to provide strategic solutions 4. To acquaint the learners with recent developments and trends in the business corporate world
Economics for Business Decisions	06	<ol style="list-style-type: none"> 1. This course is designed to equip the students with basic tools of economic theory and its practical applications 2. The course aims at familiarizing the students with the understanding of the economic aspects of current affairs and thereby prepares them to analyze the market behavior with economic way of thinking 3. To provide an insight into application of economic principles in business decisions 4. To widen analytical ability of the students and to provide them a foundation for further study of economics
Cost and Management Accounting	06	<ol style="list-style-type: none"> 1. To enhance the abilities of learners to develop the concept of Cost and management accounting and its significance in the business 2. To enable the learners to understand, develop and apply the techniques of costing in the decision making in the business corporates 3. To enable the learners in understanding, developing, preparing and presenting the financial report in the business corporates
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Semester II		
Research Methodology for Business	06	<ol style="list-style-type: none"> 1. To enhance the abilities of learners to undertake research in business & social sciences 2. To enable the learners to understand, develop and apply the fundamental skills in formulating research problems 3. To enable the learners in understanding and developing the most appropriate methodology for their research 4. To make the learners familiar with the basic statistical tools and techniques applicable for research

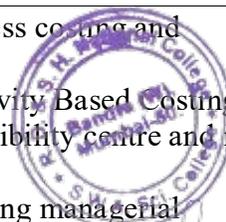


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Macro Economics Concepts and Applications	06	<ol style="list-style-type: none"> 1. To enable the learners to grasp fully the theoretical rationale behind policies at the country as well as corporate level 2. To instill a firm grounding on the basic macro-economic concepts that strengthen analysis of crucial economic policies
Corporate Finance	06	<ol style="list-style-type: none"> 1. To enhance the abilities of learners to develop the objectives of Financial Management 2. To enable the learners to understand, develop and apply the techniques of investment in the financial decision making in the business corporates 3. To enhance the abilities of learners to analyze the financial statements
E-Commerce	06	<ol style="list-style-type: none"> 1. To provide an analytical framework to understand the emerging world of e-commerce 2. To make the learners familiar with current challenges and issues in e-commerce 3. To develop the understanding of the learners towards various business models 4. To enable to understand the Web- based Commerce and equip the learners to assess e-commerce requirements of a business 5. To develop understanding of learners relating to Legal and Regulatory Environment and Security issues of E-commerce

Semester III

Direct Tax	06	<ol style="list-style-type: none"> 1. To understand the basic concepts of Direct taxation 2. To understand the different concepts of assessment 3. To develop understanding of the heads of income in detail. 4. To provide an understanding about the different sections under 80 and its implications 5. To make learners aware about the exemptions available 6. To show and make the students compute the tax liability of firm and partnership business.
Advanced Financial Accounting	06	<ol style="list-style-type: none"> 1. To understand the foreign currency conversion as per the accounting standards 2. To comprehend students about accounting of foreign branches 3. To understand the working of banking companies\ 4. To understand the accounting of non-performing assets and final accounts 5. To understand the accounting and statutory requirement of Insurance companies 6. To understand the accounting provisions of Maharashtra State co-operative societies Act
Advanced Cost Accounting	06	<ol style="list-style-type: none"> 1. To make students understand the process costing and computation of per cost income 2. To understand cost allocation and Activity Based Costing system 3. To understand the problems of responsibility centre and its profitability 4. To make students aware about measuring managerial performance and prepare Managerial reports using segmented costs 5. To make students aware about Transfer pricing, Target costing and inflation accounting



Project Work	06	<ol style="list-style-type: none"> 1. To enable the learners to conduct research independently in the area of their interest in case of research-based projects. 2. In the case of internship-based project ability to critically comprehend, analyze, suggest and recommend on the job role performed by the learner 3. To encourage students to identify and address challenges and obstacles that arise during research or internship project, promoting critical thinking and problem-solving abilities. 4. To provide students with a practical learning experience that bridges the gap between theory and application.
Semester IV		
Indirect Tax	06	<ol style="list-style-type: none"> 1. To analyse the computation of tax liability, Payment of tax, interest and other amount. 2. To make students aware about various types of returns and provisions relating to filling of returns. 3. To understand the concept of accounts, audit by tax authorities and assessment of records. 4. To understand the concept of custom law, levy of and exemptions from custom duties and types of custom duties. 5. To know the Procedures under custom act including import and 6. Export Procedures.
Advanced Financial Management	06	<ol style="list-style-type: none"> 1. To make students aware about the sources of finance-short, medium and long 2. To analyze investment decisions through capital budgeting techniques 3. To analyse working capital management through different methods 4. To understand the financial implications from companies perspective 5. To understand different types of budgets and its importance
Corporate Financial Accounting	06	<ol style="list-style-type: none"> 1. To understand the aspects of Financial reporting and recent trends in financial reporting 2. To understand Accounting Standards and IFRS 3. To understand the reporting differences that occur in IFRS and Accounting Standard 4. To comprehend the valuation methods for merger and acquisitions 5. To understand the concept of Standalone Balance Sheets and consolidated Financial Statements



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Project Work II	06	<ol style="list-style-type: none">1. To enable the learners to conduct research independently in the area of their interest in case of research-based projects.2. In the case of internship-based project ability to critically comprehend, analyze, suggest and recommend on the job role performed by the learner3. To encourage students to identify and address challenges and obstacles that arise during research or internship project, promoting critical thinking and problem-solving abilities.4. To provide students with a practical learning experience that bridges the gap between theory and application.
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**Rishi Dayaram and Seth Hassaram National College and Seth Wassiamull
Assomull Science College. Bandra (West), Mumbai – 400050.**



Faculty of Science

Criteria 2.6 Programme Outcomes – Course Outcomes



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BACHELOR OF SCIENCE - BOTANY

1. Class: FYBSc

2. Program Outcomes: Core Discipline knowledge and Critical Thinking

- learn about plant diversity and their application in our day to day life
- Understand life forms and understand industrial applications of plants.
- Able to observe accurately and objectively.
- trained to address issues pertaining to classical botany aspects and think scientifically, independently and draw rational conclusions.

Science Communication

- Curriculum empowers communication skills in science, which further enhances easy spread of scientific knowledge in the society.
- Students are made aware of environment related issues.

All-round Personality

- Students acquire attributes of good citizens with certain ethics, made aware of environment its management and planning.
- Students develop as all-round individuals possessing variety of values and skills conferred by extracurricular activities.

Program Specific Outcomes:

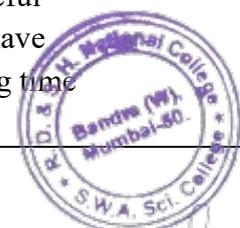
- To get the knowledge of plants from primitive to highly evolved groups.
- To acquire valuable information regarding their utility in human welfare.
- To understand the significance of living single plant cell, its form and functions.
- To learn and correlate plants and their ecological adaptations of various environmental conditions.
- To get the experience of natural manipulation of genes by studying and performing crosses between genes on paper.
- To study the anatomical details of some plants.
- To explain how current medicinal practices are often based on knowledge of indigenous plant and to get introduced to different perspectives on treating ailments according to ethnomedicinal principles.
- To understand patterns of heredity and variation among individuals, species and populations.



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5. Course Outcomes:

Title of the course	Course credit	Course outcome
Semester I		
Plant Diversity I		<ol style="list-style-type: none"> To understand classification, morphology, life cycle To learn about the economic importance algae, To study their economic importance.
Form and Function I		<ol style="list-style-type: none"> To differentiate between eukaryotic and prokaryotic cell. To learn important cell organelles, their ultra-structures and functions. To understand the nature of energy flow in an ecosystem. To identify and understand adaptations of plants belonging to various ecological conditions. To study their morphological peculiarities. To study and understand different Mendelian Laws of genetics. To know the way of gene segregation and their independent assortment. To learn allelic and non-allelic interaction of genes and correlate the results.
Semester II		
Plant Diversity I		<ol style="list-style-type: none"> To learn morphology, structure, systematic positions, modes of reproduction and economic importance of pteridophytes, gymnosperms as well as angiosperms. To learn the taxonomical terminology and understand the meaning of the same. To study two families and plants with economic importance belonging to them.
Form and Function I		<ol style="list-style-type: none"> To study types of plant tissues and differentiate monocots and dicots on the basis of their anatomy. To understand the structures of stomata of monocot and dicot leaves. To learn transport mechanism in plants and differentiate between the physiological processes and their importance. To study some organic compounds, their synthesis and breakdown in plants. To recall botanical names, active constituents, medicinal uses and useful parts of six medicinal plants, which have been used traditionally since very long time in India.



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Academic year : 2020 – 2021

Class: S.Y.B.Sc.

Program Outcomes: Specific core discipline knowledge

- Students can recall details and information about the evolution, anatomy, morphology, systematic, genetics, physiology, ecology, and conservation of plants and all other forms of life.
- Students can recall details of the unique ecological and evolutionary features of the local and Indian flora.

Communication skills

- Students can communicate effectively using oral and written communication skills
- Involvement of students towards interactive section in class

Problem solving and research skills

- Students can generate and test hypotheses, make observations, collect data, analyze and interpret results, derive conclusions, and evaluate their significance within a broad scientific context

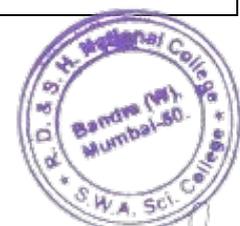
Program Specific Outcomes:

- To understand the phylogeny of plants and study various systems of classification.
- To explore the morphological, anatomical, embryological details as well as economic importance of algae, fungi, bryophytes, pteridophytes, gymnosperms and angiosperms.
- To understand physiological processes and adaptations of plants.
- To provide knowledge about environmental factors and natural resources and their importance in sustainable development.
- To understand patterns of heredity and variation among individuals, species and populations and apply principles for improvement of quality and yield.
- To be able to apply statistical tools to gain insights into significantly different data from different sources.
- To acquire recently published knowledge in molecular biology, such as rDNA technology; PTC and bioinformatics and their applications.



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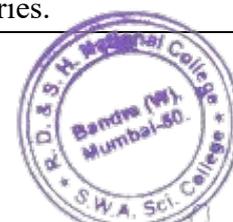
Title of the course	Course credit	Course outcome
Semester III		
Plant Diversity		<ol style="list-style-type: none"> 1. To understand the salient features of three major groups of algae, their life cycle patterns with a suitable example; to be able to identify them. 2. To gain the nomenclature information with various classification point of view. 3. To provide plant description, describe the morphological and reproductive structures of four families and also identify and classify according to Bentham and Hooker's system. 4. To study the modern methods about the instrument and their principles regarding working and functioning.
Form and Function II		<ol style="list-style-type: none"> 1. To gain the basic knowledge about the various essential organ / tissue systems/ cells/ cell organelles from the plant species diversities. 2. To understand the pattern of cell division and its function according to types. 3. To acquire the knowledge about the genetic materials and its role in living system. 4. To gain the information about the various activities of the chromosomes along with variation with respect to examples like Drosophila as basic organism. 5. To relate the above information for understanding the genetic hereditary effects of such variations. 6. To gain the knowledge about the central dogma and mechanism of all machinery related to it.
Current Trends in Plant Sciences I		<ol style="list-style-type: none"> 1. To understand the various aspects of pharmaceutical industries with respect to medicinal herbs and related adulterant plants to it. 2. To gain the information about the international standards of pharmacopeia. 3. To provide the concise knowledge about Indian pharmacopeia and Ayurvedic pharmacopeia 4. To demonstrate the different geographical zones of India their existing flora and the economic values with respect to spices and medicines as well.



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Semester IV

Plant Diversity		<ol style="list-style-type: none">1. To learn the general characteristics and classification of two major groups of fungi alongwith life cycles of each group; to be able to identify them.2. To observe the effect of infection occurred due to the fungi towards economic plants.3. To understand the basic mode of transmission and life cycle to preventive measures and other alternatives.4. To gain the information about very unique type of organism on the earth i.e. Lichens and its life cycle and uses for mankind.
Form and Function II		<ol style="list-style-type: none">1. To acquire the structure and functions of tissue systems of plants.2. To understand the arrangement of the conducting tissues in plants.3. To gain the knowledge of physiological mechanism related to the respiration in plants and specific responses given by plants towards the Photosynthetic region of light spectrum.4. To demonstrate the schematics of mineral cycles like Nitrogen, carbon and water respectively.5. To gain the information of different abiotic factors and the relation between the community flourishing in it.
Current Trends in Plant Sciences I		<ol style="list-style-type: none">1. To construct schematics of garden types and specific locations with their suitable plant to grow.2. To understand the importance of some garden types with its principle ideas with examples in India.3. To gain the widely expanding knowledge related to genetic information and its uses in4. fields like PTC, R-DNA technology, and their utilization.5. To acquire the use of biostatistician tools for analyze, relate, solve and interpret the data generated through the biological experiments.6. To understand the importance and uses of bioinformatics and day to day need of it in various genetic experiments and discoveries.



Aspatriani

CHEMISTRY

1. *Name of Department:* Department of Chemistry

2. *Title of Programme:* B.Sc.

3. *Programme Outcomes:*

The Programme is designed to inculcate

- **CRITICAL THINKING**

- ✓ The curriculum is designed to develop inquiry-based learning such that students develop an ability to observe accurately and objectively. They should be able to solve the problems, think scientifically, independently and draw well defined conclusions.

- **SCIENCE COMMUNICATION**

- ✓ The Curriculum empowers the student to develop scientific communication skills which further enhances easy spread of scientific knowledge in the society.

- **SOCIAL INTERACTIONS**

- ✓ Students are made aware of environmental and other related issues which make them capable of bring scientific solutions for national integration, community harmony, gender equality and nationalism.

- **EFFECTIVE CITIZENSHIP**

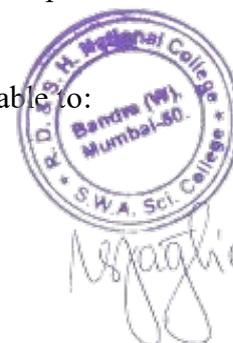
- ✓ Awareness of environmental issues and its management makes the student acquire attributes of good citizens with certain ethics.

- **ALL ROUND PERSONALITY DEVELOPMENT**

- ✓ The program gives the tools and knowledge to students to grow their personalities with all round growth by participating in co-curricular and extra-curricular activities

4. *Program Specific Outcome:*

- The curriculum framework for the bachelor-level program in Chemistry is developed keeping in view of the student centric learning pedagogy, which is entirely outcome-oriented and curiosity-driven.
- The curriculum framework focuses on pragmatist approach whereby practical application of theoretical concepts is taught with substantial coverage of practical and field works.
- Upon completion of B.Sc. Program in Chemistry the students will be able to:
 - ✓ Evaluate the chemical composition of any material
 - ✓ Examine the physical parameters of substances



- ✓ Define a set of physical and chemical properties
- ✓ Identify suitable Industrial (pharmaceutical & dyestuff) intermediate
- ✓ Operate certain analytical instruments.
- ✓ Understand energy parameters associate with physical and chemical changes
- ✓ understand the strength of acids and bases
- ✓ learn the strategies required for new substances and materials
- ✓ Analyze ores and alloys

5. Course Outcomes:

Title of the Course	Course Credit	Course Outcome
USCH101	02	On completion of the course the learner will be able to: <ol style="list-style-type: none"> 1. Describe thermodynamic terms and learn basic concepts of thermodynamics (energy changes during a reaction) 2. Calculate Concentration in various forms 3. Understand the evolution of atomic structure 4. Elucidate Periodic Properties 5. Comprehend IUPAC rules of naming of organic compounds 6. Explain reaction mechanism and different intermediates formed during a reaction.
USCH102	2	On completion of the course the learner will be able to: <ol style="list-style-type: none"> 1. study the rate of reaction 2. Predict properties of liquids 3. Outline the properties of main group elements 4. State environmental properties of Oxides and Oxyacids of N & S 5. Convert molecule in different projection formulae 6. Infer reasons for optical activity.



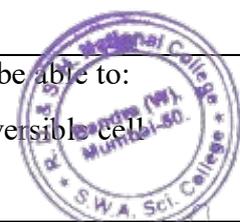
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USCH 201	2	<p>On completion of the course the learner will be able to :</p> <ol style="list-style-type: none"> 1. Discuss the laws of gases 2. Determine Equilibrium and thermodynamic parameters 3. Explain concepts of qualitative analysis 4. Outline Acid Base Theories 5. Illustrate Carbon-Carbon sigma and pi bonding 6. Explain reactions of alkene and alkynes
USCH202	2	<p>On completion of the course the learner will be able to:</p> <ol style="list-style-type: none"> 1. estimate pH of buffer solutions 2. Relate interaction between matter with electromagnetic radiation 3. differentiate between different types of bonds in chemistry and reactivity of substances based on bonding. 4. relate to redox reactions in chemistry. 5. project three-dimensional model of molecules. 6. Understand the chemistry of aromatic compounds
USCHP1 & 2	2	<p>On completion of the course the learner will be able to:</p> <ol style="list-style-type: none"> 1. To apply safety rules in the practice of laboratory investigations in a chemistry laboratory. 2. To correlate theory concepts through practical. 3. To learn the identification of organic compounds(qualitatively) 4. To learn the concepts of quantitative analysis using different techniques like gravimetric and volumetric analysis. 5. To estimate strength of commercial acid 6. To examine percentage composition of mixture 7. To learn purification technique 8. To apply chromatographic technique



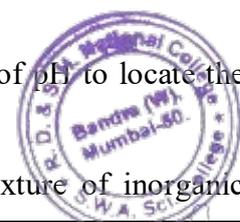
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USCH301	2	<p>On completion of the course the learner will be able to:</p> <ol style="list-style-type: none"> 1. Discuss partial molal properties 2. Understand the principles of conductivity and resistivity 3. Differentiate between non directional and directional bonding 4. Apply molecular orbital theory in compounds. 5. Understand the reactivity of halogenated hydrocarbon and its uses. 6. Distinguish between alcohols, phenol and epoxides.
USCH302	2	<p>On completion of the course the learner will be able to:</p> <ol style="list-style-type: none"> 1. Predict theories of reaction kinetics 2. Explain the concept of Nernst distribution law 3. Differentiate the chemistry of p block elements in the periodic table from other elements. 4. Understand the reactivity and uses of silicon and germanium 5. Understand the reactivity of carbonyl compounds and generalise nucleophilic addition reaction mechanism 6. Observe the reactivity of active methylene compounds and their use.
USCH303	2	<p>On completion of the course the learner will be able to:</p> <ol style="list-style-type: none"> 1. Understand the role of analytical chemistry in various fields of Chemistry. 2. Describe and apply method of sampling and statistical treatment of data. 3. Establish classical methods of analysis of a sample using different techniques like gravimetric or volumetric methods. 4. Identify suitable gravimetric or volumetric method 5. Describe the various instrumental methods of analysis. 6. Explain basic terms in spectroscopy.
USCH401	2	<p>On completion of the course the learner will be able to:</p> <ol style="list-style-type: none"> 1. Differentiate between reversible and irreversible cell 2. Comprehend phase equilibria



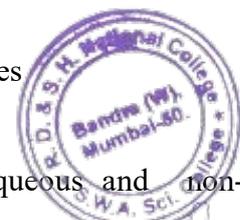
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		<ol style="list-style-type: none"> 3. Translate transition metal chemistry 4. Evaluate qualitative tests for transition metal ions 5. Understand properties and importance of coordination compounds 6. Elucidate the reactivity of carboxylic and sulphonic acids.
USCH402	2	<p>On completion of the course the learner will be able to:</p> <ol style="list-style-type: none"> 1. Understand the terms used in crystallography 2. Decipher the concepts of catalysis and its importance in synthetic chemistry. 3. Predict the behaviour of ions in aqueous medium 4. Describe the important uses of environmental chemistry 5. Display the chemistry of nitrogen containing heterocycles and its uses in various fields. 6. Importance of diazonium salts in chemistry (synthesis and use)
USCH403	2	<p>On completion of the course the learner will be able to:</p> <ol style="list-style-type: none"> 1. Tabulate the types of separation methods. 2. Understand the use of solvent extraction techniques. 3. Develop an understanding to use statistical method of data analysis 4. Understand the importance and need of pH. 5. Understand the use of computation of confidence limit and confidence interval 6. Use and understand the principle of conductometric titration
USCHP2	2	<p>On completion of the course the learner will be able to:</p> <ol style="list-style-type: none"> 1. Understand the Ostwald's dilution law 2. Understand the reasons for hardness of water and how to estimate hardness of water 3. Synthesize organic compounds. 4. Understand and predict the importance of pH to locate the end point of acid base titration. 5. To determine the ions present in a mixture of inorganic



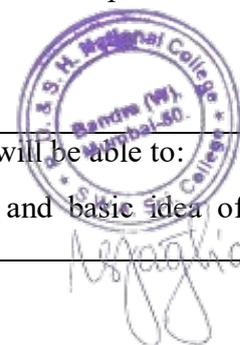
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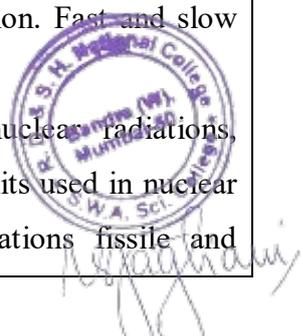
		<p>salts by using semi micro qualitative analysis</p> <p>6. To find out the conductance and potential of different chemicals using conductometer and potentiometer</p>
USCH501 (Physical Chemistry)	2.5	<p>Upon completion of this course the students will be able to:</p> <ol style="list-style-type: none"> 1. Colligative Properties of Dilute Solutions like Raoult's law, relative lowering of vapour, pressure elevation of Boiling point 2. Understand the concept of thermodynamics and apply it to physical and chemical system. 3. Explain Phase rule, Gibbs equation, three phase system. 4. Explore Surface chemistry and catalysis, Kinetics of acid base catalysis, effect of PH on catalysis, colloids concept of electrical double layer, Helmholtz equation, electrophoresis 5. Understand Lewis concept of Activity and Activity coefficient, expression for activities of electrolytes of different valence type, ionic strength, chemical cell without transference, Applications of EMF 6. Appreciate polymers, learn the methods used to determine molar masses of polymers, understand light emitting polymers. 7. Learn the concept of Laws of Crystallography, use of X rays in study of Crystals, Braggs equation, defects in crystals.
USCH502 (Inorganic Chemistry)	2.5	<p>Upon completion of this course the students will be able to:</p> <ol style="list-style-type: none"> 1. Explain the concept of Point groups in solid state chemistry 2. Apply molecular orbital theory to different molecules. 3. Understand the various crystal structures of solid. Understand superconductivity, Meissner effect. 4. Deal with the concept of limiting radius, coordination numbers. 5. Explain the chemistry of lanthanide series 6. Understand the chemistry of actinides. 7. Predict behaviour of acid -base in aqueous and non-aqueous solvents.



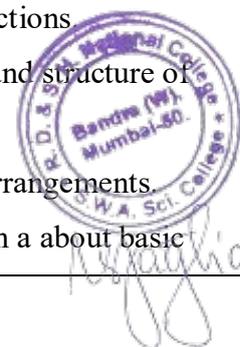
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		8. Discuss the use of different solvents and their classification.
USCH 503 (Organic Chemistry)	2.5	<p>Upon completion of this course the students will be able to:</p> <ol style="list-style-type: none"> 1. Proceed through the reaction mechanism of carbonyl compounds with nucleophiles. Acid catalysed esterification base catalysed hydrolysis. 2. Predict Molecular Chirality 3. Apply stereochemical considerations to addition reactions 4. Utilize the concept of photochemistry 5. Explore multicomponent synthesis and various principles of green chemistry. 6. Understand the stereochemical approach of different reactions. 7. Comprehend about Agrochemicals and their uses. 8. Natural products and their uses. 9. Explore the chemistry of heterocycles. 10. To name complex organic molecules according to IUPAC rules.
USCH504 (Analytical Chemistry)	2.5	<p>Upon completion of this course the students will be able to:</p> <ol style="list-style-type: none"> 1. To introduce the concept of quality in analytical chemistry 2. Understand the calculations for inter conversion in chemical calculations and sampling 3. Discuss the classical methods of analysis in relation to titrimetric –redox and complexometric titration 4. Demonstrate various optical methods with specific reference to Visible spectroscopy, Molecular spectroscopy, Fluorescence & Phosphorescence spectroscopy, Turbidimetry and nephelometry 5. Appreciate complete insight to method of separation - solvent extraction, HPLC, HPTLC
USCHDD501 (Drugs & Dyes)	2.5	<p>Upon completion of this course the students will be able to:</p> <ol style="list-style-type: none"> 1. Recognize the nomenclature, definition and basic idea of

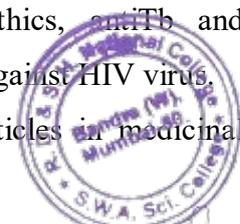


		<p>drugs. And dyes.</p> <ol style="list-style-type: none"> 2. Comprehend different routes of drug administration and dosageforms. 3. Learn through the different types of drugs –analgesics, antipyretics and anti -inflammatory, cardiovascular, antidiabetic, antiparkinsons and drugs for respiratory system. 4. Orient themselves about dyes –definition of terms in dyeing, nomenclature, naming of dyes by colour index 5. Learn about natural and synthetic dyes. 6. Acquire knowledge of types of fibers. 7. Classify the dyes based on applications and dyeing methods 8. Acquire a complete insight about optical brighteners 9. the learning of color and constitution of dyes 10. To impart knowledge of unit process and dye intermediates.
<p>USCH601 (Physical Chemistry)</p>	<p>2.5</p>	<p>Upon completion of this course the students will be able to:</p> <ol style="list-style-type: none"> 1. Describe molecular spectroscopy, vibrational spectroscopy, rotational spectroscopy, Raman spectroscopy and its nature, spectra, selection rule, energy; evaluate spectra shown by a species. 2. Understand basic of quantum chemistry, progressive and standing waves, postulates of quantum mechanics. 3. Comprehend the applications of electrochemistry. 4. Appreciate the use of Renewable Energy Sources like Lithium-ion cell, Fuel cell, Hydrogen cell. 5. Understand various physical properties and its uses to determine unknown chemical structure of the compounds using NMR 6. Understand collision theory of rate reaction. Fast and slow reactions 7. Discuss Nuclear reactions, types of nuclear radiations, kinetics of radioactive decay, different units used in nuclear chemistry, tracers in chemical investigations fissile and 

		fertile materials, chain reaction.
USCH602 (Inorganic Chemistry)	2.5	<p>Upon completion of this course the students will be able to:</p> <ol style="list-style-type: none"> 1. Appreciate Crystal field Theory, splitting of d orbitals in octahedral, tetrahedral, square planar complexes. CFSE, calculation of CFSE, effect of splitting on ionic radius and Lattice energy. Drawbacks of CFT model. 2. Understand the concept of Molecular orbital theory as applied to coordination complexes(octahedral), electronic states and terms for [polyelectronic atoms. 3. Comprehend properties of coordination compounds, stability of complexes, substitution reactions in octahedral complexes. 4. Describe electronic spectra of intra ligand transitions,d-d or ligand field transitions for transition metals. 5. Discuss organometallic compounds of main group and transition metals and their use in synthesis of ferrocene, alkylation and arylation reactions, complex formation reactions. 6. Use his knowledge about characterization of liquid effluent and their treatment by using methods such as BOD, COD, TOD aerobic and anaerobic processes. 7. Explain nanoparticles its important properties like optical, electrical, mechanical and its various forms. 8. Understand Inorganic pharmaceuticals viz antacids,cathartics, protective and adsorbent topical agents like talc, calamineastringents etc.
USCH 603 (Organic Chemistry)	2.5	<p>Upon completion of this course the students will be able to:</p> <ol style="list-style-type: none"> 1. Understand stereoselectivity and stereospecificity in substitution, elimination and addition reactions 2. Develop and understand the importance and structure of amino acids and proteins 3. Introduce the principles of molecular rearrangements. 4. Comprehend carbohydrate chemistry with a about basic



		<p>knowledge about stereoisomers, mutarotation and reactions of carbohydrates</p> <ol style="list-style-type: none"> 5. Introduce basic concepts of structural determination of organic compounds using spectral methods such as IR and ¹H NMR. 6. equip the learner with the chemistry of nucleic acids and their structures. 7. Identify polymers, understand the different types of polymer processes, learn about natural and synthetic rubber and stereochemistry of polymers with commercial applications. 8. Describe general features of catalyst and reagents in organic chemistry.
USCH604 (Analytical Chemistry)	2.5	<p>Upon completion of this course the students will be able to:</p> <ol style="list-style-type: none"> 1. Facilitate the learning of electroanalytical techniques specific to Polarography and amperometric titration 2. Impart knowledge of Gas and Ion exchange chromatography and its applications 3. Communicate his knowledge about thermal methods like TGA,DTA and thermometric titrations. 4. Comprehend the data for food processing and preservation and methods used for analysis of food and cosmetics.
USCHDD601 (Drugs & Dyes)	2.5	<p>Upon completion of this course the students will be able to:</p> <ol style="list-style-type: none"> 1. Disperse his knowledge about drug discovery, design and development. 2. Understand the metabolism of drugs and their excretion from the body. 3. Comprehend different types of chemotherapeutic drugs used as antibiotics, antimalarial, antihelminthics, antiTb and Leprosy, antineoplastics and drugs used against HIV virus. 4. Understand the importance of nano particles in medicinal chemistry 5. Appreciate the knowledge about drugs and environmental



		<p>related aspects</p> <ol style="list-style-type: none"> 6. classify of dyes based on chemical constitution and synthesis of selected dyes 7. Understand basic terms of health and environmental hazards of synthetic dyes and their remediation process 8. develop conceptual clarity on non-textile uses of dyes 9. Familiarize himself with dyes used in food and cosmetics. 10. Absorb the dye industry – Indian perspective
USCH P05 USCHP06	3 + 3	<p>Practical course of each, paper and semester include practical from various branches of chemistry like Physical Chemistry, Inorganic Chemistry, Organic Chemistry, Analytical Chemistry.</p> <p>The experiments involve techniques such as titrations, colorimetry, potentiometry, chromatography, spectroscopy. It also includes separation of organic compounds from a mixture such as solid -solid, liquid – solid, or liquid – liquid. . Preparation of inorganic complexes enhances the practical skills of students giving a wide range of practical knowledge and concepts to the student for chemical analysis qualitatively and quantitatively.at the end of the course the student is well equipped to carry out quantitative and qualitative analysis of compounds as well as use certain instrumentation techniques for analysis.</p>



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CHEMISTRY

1. *Name of Department:* Department of Chemistry

2. *Title of Programme:* M.Sc.

3. *Programme Outcomes:*

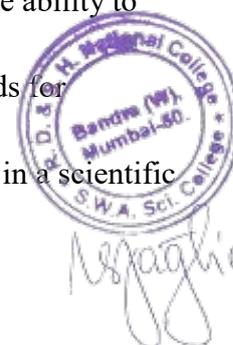
On completion (after two years) of M. Sc. Chemistry Programme, the students are expected to

- have a strong foundation in the fundamentals of chemistry and its advances. recognize, categories, analyze and solve the problems relating to the concepts of chemistry and issues related to chemistry.
- synthesize, interpret and utilize the basic principles and laws, processes, reaction mechanisms involved in chemistry, chemical experiments and scientific problems.
- make use of instrumentation techniques, online data for obtaining information about chemistry, chemical technique, models or any other problem relating to chemistry.
- Develop communication skills for exchanging ideas in research and findings which has an impact of chemistry on environment and society to the chemist and non-chemist.
- To have hands on experience of the concepts and processes in the field of chemistry
- pursue a source of livelihood in the field of Chemistry.
- arouse the interest of inquiry to pursue research and higher learning in chemistry

4. *Programme Specific Outcomes (PSOs)*

On completion (after two years) of M. Sc. Chemistry Programme, the students are expected to

- have sound knowledge and the ability to conceive essential facts, concepts, principles, and recent scientific advances in the specific branch of chemistry in which the learner specializes.
- Apply the knowledge gained to analyze, interpret the various problems to solve qualitative and quantitative problems.
- Design synthesis of various reactions with mechanisms (both organic and inorganic) and will be able to predict the products of reactions.
- Interpret any data related to chemical analysis and have the knowledge of using several sophisticated instruments used for research and development.
- Have knowledge to handle various sophisticated instruments/equipment and develop a sense of inquiry to study and correlate the data obtained.
- Possess skills in differentiating regular and specialty chemicals, learn the safe-handling of chemicals, including specific hazards associated with their use and the ability to conduct risk assessments.
- Understand the role of chemistry in environmental pollution and methods for controlling environmental pollution.
- built the capability of monitoring by observation and recording the data in a scientific manner.

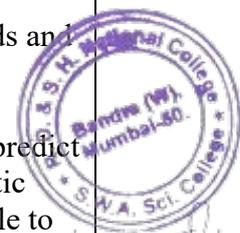


- Obtain laboratory skills needed to design and interpret chemical research at college and industrial levels.

5. Course Outcomes (COs): M.Sc. Chemistry

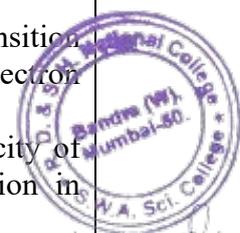
After completion of Master in chemistry the learner will be able to:

Title of the course	Course credit	Course outcome
PSCH101 Physical Chemistry	4	<ol style="list-style-type: none"> to apply and understand laws of Thermodynamics, Maxwell thermodynamic relations, joule Thomson experiments, entropy changes for phase transition. discuss the concepts of quantum mechanics, particle wave, Schrodinger equation, application of quantum mechanics, Particle in a box, harmonic oscillator recursion formula. understand and apply the concepts of composite reactions, rate determining steps, microscopic reversibility and balanced chain reactions. Kinetics of polymerization reactions, reaction in gas phase, Rice- Ramsperger -kassel Marcus theory. deliberate on electrochemistry, Debye -Huckel theory, electric conductance and ionic interactions, different types of fuel cells, bio-electrochemistry in biological systems.
PSCH102 Inorganic chemistry	4	<ol style="list-style-type: none"> Understand and discuss types of bonds, various theories used in bonding like VBT, VSEPR, MO theory Comprehend symmetry elements and understand group theory with applications. disseminate his knowledge about solid state chemistry with respect to structure of compounds and methods of preparation for inorganic solids, nanoparticles and their applications in the field of semiconductors, solar cells. Appreciate coordination compounds and characterize them by using instrumentation methods like IR, NMR and ESR spectroscopic methods and comparative studies of potentiometric and spectral methods.
PSCH103 Organic Chemistry	4	<ol style="list-style-type: none"> study the thermodynamic and kinetic requirement of reactions, determine mechanism of reactions by using kinetic studies, use of isotopes for determining mechanism of reaction and acids and bases and the factors affecting acidity and basicity, use of acid and bases as catalyst. Understand the criteria for aromaticity and predict nucleophilic substitution reactions in aliphatic and aromatic compounds, he will also be able to



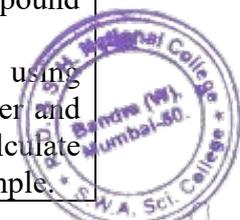
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		<p>understand the different mechanism of acid and base catalyzed hydrolysis.</p> <ol style="list-style-type: none"> describe chirality of molecules with tri and tetra coordinate centers, molecules with two or more chiral centers, interconversion of projection formulae, axial and planar chirality and prochirality. Acknowledge different reagents used in oxidation and reduction with specific reference to oxidation involving various types of bonds, use of specific reagents for selective oxidation and reduction.
PHCH104 Analytical Chemistry	4	<ol style="list-style-type: none"> Understand the language of analytical chemistry, Maintain quality management system, safety in laboratories and accreditations of laboratories, learn about GLP. Calculate concentration of solutions in ppm, ppb, he will be able to do stoichiometry of chemical reactions, calculate pH of acids, bases, buffers, Apply optical methods like FT techniques, molecular UV and Visible spectra IR spectra and their applications in chemistry. Use automation techniques in chemical analysis obtained from different instrumental techniques.
PHCH201	4	<ol style="list-style-type: none"> understand fugacity of real gases, Gibbs energy of mixing, entropy and enthalpy of mixing, chemical potential in non-ideal solutions, Gibbs Duhem Margules equation, kelvin equation, Gibbs adsorption isotherm BET isotherm, and bioenergetics quantum chemistry spherical coordinates Schrodinger wave equation, phi equation, theta equation, quantization of rotational energy. Hydrogen atom, application of Schrodinger wave equation. Comprehend elementary reactions in solution, kinetic of reaction catalyzed by enzymes, inhibition of enzyme action, kinetics of reaction in solid state, rate laws for reactions in solid. Apply the study to types of defects in solids, phase equilibria in two and three component systems.
PSCH202	4	<ol style="list-style-type: none"> Discuss inorganic reaction mechanism, ligand substitution reactions, redox reaction, stereochemistry of substitution. Describe organometallic chemistry of Transition metals, sandwich compounds, eighteen electron rule and Zeise's salt. Apply the concept of heavy metals, toxicity of metallic species and interaction of radiation in context with environment.



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		4. Understand the use of metals in biological systems and medicines.
PSCH203	4	<ol style="list-style-type: none"> 1. Appreciate nucleophilic reactions using carbon intermediates, reaction with carbon nucleophiles with carbonyl group. 2. Understand concerted rearrangements, cationic rearrangements, anionic rearrangements. 3. Explain molecular orbital theory for organic molecules using the concept of FMO, HOMO, LUMO orbitals. And applications of UV and IR spectroscopy to organic molecules. 4. Use the principles of HNMR, C13 NMR and mass spectroscopy for structural determination involving individual or combined spectral techniques.
PSCH204	4	<ol style="list-style-type: none"> 1. Apply the principles of chromatography as separation techniques, GAS chromatography, HPLC 2. Disseminate the knowledge of instrumentation like Xray spectroscopy, Mass spectroscopy, Radioanalytical Methodology. 3. Use the principles involved in SEM, STM, TEM, ESCA and Auger, Atomic spectroscopy. 4. Comprehend the electroanalytical methods like Ion Selective potentiometry and polarography, electrogravimetry, coulometry
PHCHP 101 & 201 PHCHP102 & 202 PHCHP103 & 203 PHCHP104 & 204	8+ 8	<ol style="list-style-type: none"> 1. Learn basic laboratory rules and basic principles of laboratory safety. 2. Perform stoichiometry calculations, make standard solutions, perform different types of titrations and determine concentration and strength of substances. 3. To study phase diagrams using phase rule 4. classify various types of volumetric titrations; recognize the type of titration method suitable under given conditions; and predict the choice of indicator. 5. Perform ore analysis and estimate metals using instrumentation methods like potentiometer. 6. Synthesize different organic and inorganic compounds, and estimate organic substances in a given sample. 7. Prepare, separate and identify the given organic mixture. Will be able to purify organic compound using suitable solvent. 8. analyze quantitative experiments using instrumentation techniques such as pH-meter and conductometry; plot graphs involved and calculate the amount of analyte present in a given sample.

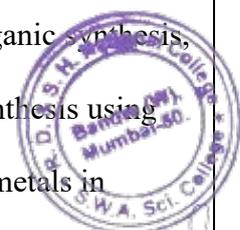


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Course outcome MSc (Organic Chemistry) Sem III & IV

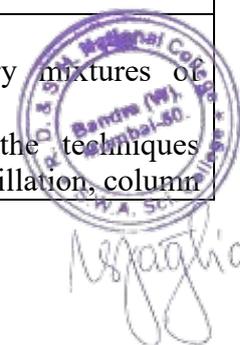
After completion of Master in chemistry the learner will be able to:

Title of the course	Course credit	Course outcome
PSCH0301 Theoretical organic chemistry I & PSCH0401 Theoretical organic chemistry II	4 +4	<ol style="list-style-type: none">1. Summarize basic principles of Organic Chemistry.2. Explain Organic reaction mechanism and intermediates formed during a chemical reaction.3. Apply basic concepts of pericyclic reactions such as photochemical reactions and thermal reactions.4. Comprehend some advanced concepts of stereochemistry such as conformational analysis of ring compounds stereochemistry of fused ring systems, Bredt's rule and Anancomeric systems stereochemistry.5. Explain concept of photochemistry of carbonyl compounds, olefins, arenes etc.6. Discuss basic concepts of physical organic chemistry like structure activity relationship, Hammett equation, the Taff model and related theories.7. Understand and describe the concepts of supramolecular chemistry.8. Describe some advanced concepts of stereochemistry such as methods of determining enantiomeric, resolving racemates by mechanical, chemical, kinetic and equilibrium asymmetric transformations and diastereomer isomeric composition, different correlation methods and chiroptical properties9. Describe some advanced concepts asymmetric synthesis
PSCH0302 Synthetic Organic Chemistry I & PSCH0402 Synthetic Organic Chemistry II	4 +4	<ol style="list-style-type: none">1. Deliberate on Name reactions with Mechanisms, domino reaction, Multicomponent reactions, click reactions.2. Appreciate radicals in organic reactions, radical initiators, characteristic reactions, hunsdiecker reaction and other reactions.3. Explain Enamines, Ylides and alpha-CH functionalization, Preparation, and applications of P,S,and N ylides.4. Discuss Metals/ Non -Metals in organic synthesis:mercury, organoboron compounds, Organosilicon compounds, silyl enol ethers, organolithium compounds, selenium in organic chemistry.5. Apply the knowledge of designing organic synthesis using protecting groups in synthesis, reversal of polarity, planning a synthesis using retrosynthesis analysis.6. Explain general strategies in designing of organic synthesis, one and two group C-C disconnections.7. Comprehend selected methods of organic synthesis using electro-organic chemistry.8. Describe the use of transition and rare earth metals in organic synthesis and their applications.



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PSCH0303 Natural products & spectroscopy & PSCH0403 Natural products & Heterocyclic chemistry	4+4	<ol style="list-style-type: none"> 1. Discuss the chemistry of Natural products like carbohydrates, natural pigments, insect pheromones, alkaloids. 2. Explain the multi-step synthesis of natural products, prostaglandins, Lipids, insect growth regulators, plant growth regulators. 3. Elaborate on advanced spectroscopic techniques – HNMR, C13 NMR UV, IR, and mass spectroscopy. 4. Describe advanced NMR techniques like DEPT experiments, COSY and HECTOR spectra, NOE and NOESY techniques. 5. Apply the knowledge of natural products like steroids, with synthesis of hormones, alkaloids and bile acids, jasmolone, testosterone, etc. 6. Explain different Vitamins, Antibiotics, naturalling occurring insecticides, terpenoids. 7. Understanding Heterocyclic compounds, with respect to nomenclature, structure, reactivity, synthesis and reactions of pyrazole, imidazole, oxazole, thiazole etc, 8. Apply the knowledge of nomenclature to bicyclic/ tricyclic fused heterocycles. Nucleophilic ring opening reactions of different heterocycles. Structural reactivity of fused heterocycles.
PSCH0304 Medicinal, Biogenesis and Green Chemistry & PSCH0404 Research Methodology	4+4	<ol style="list-style-type: none"> 1. Explain the gest of drug discovery, design and development, procedures in drug designing, lead compounds, lead modifications etc. 2. Apply his knowledge to quantitative structure activity relationship studies, methods of drug synthesis, concept of prodrug and soft drugs, synthesis and application of certain class of drugs. 3. Understand the biogenesis and biosynthesis of natural products using various biochemical pathways. 4. Disseminate the principles of green chemistry, and use them in green synthesis. Compare traditional processes versus green processes and the use of green catalysis. 5. Understand the importance of Journals and digital libraries, Information technology and library resources. 6. Comprehend how to do data analysis by keeping an investigative approach and learn the art of analysis and presentation of data. 7. Learn the methods of scientific research and writing scientific papers. 8. Have an insight in chemical safety and ethical handling of chemicals.
PSCH03P1 & P2 PSCH04P1 & P2	8 +8	<ol style="list-style-type: none"> 1. Explain concepts of separation of ternary mixtures of different physical composition, 2. Synthesize organic compounds, Outline the techniques of purification, checking purity by steam distillation, column



		<p>chromatography, determine physical constant and calculate percentage yield.</p> <ol style="list-style-type: none">3. Plan a synthesis and explain its safety aspects4. Interpretation of spectral data of organic compounds (UV,IR,PMR,CMR and Mass spectra.
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Aspatriani

PHYSICS

1. *Name of Department:* Department of Physics

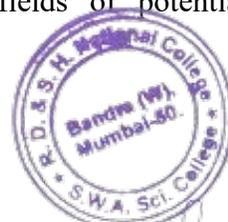
2. *Title of program:* BSc. Physics

3. *Program Outcomes:*

- Develop analytical abilities towards real world problems.
- Familiarize with current and recent scientific and technological developments.
- Develop Scientific temper , Critical thinking , enrich knowledge through problem solving , hands on activities, study visits , field visits , projects and research aptitude towards betterment of society.
- Capable of oral and written scientific communication to think critically and work independently.
- Communicate effectively using graphical techniques, reports and presentations within a scientific environment.
- Pursue Masters Degree in Science , work in research related fields,
- Apply for professionally job oriented courses.
- Eligible for various Government examinations conducted by UPSC, MPSC, IBPS, SSC etc.

4. *Program Specific Outcomes:*

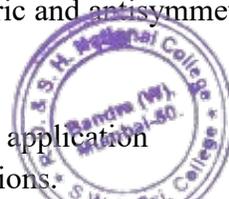
- Acquire a thorough understanding of physical phenomena and applications.
- Identify principles of Physics and basic concepts essential for higher studies, Research and industry purpose.
- Apply vector algebra, differential and integral calculus as well as graphical methods to solve Physics problems.
- Learn and understand electronic concepts necessary for working of electronic devices for various applications.
- Demonstrate ability to apply knowledge learned in the classroom to set and perform simple laboratory equipment's.
- Solve Physics problems using appropriate methods in Mathematical, Theoretical and computational Physics.
- Develop scientific temper, critical thinking in Research project work
- Pursue higher studies in physics as well as other fields of potential importance.
- PS09: Be trained to take up jobs in allied fields.



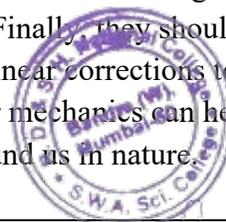
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5. Course Outcomes:

Title of the course	Course credit	Course outcome
Mathematical, Thermal and Statistical Physics	2.5	<p>From this course, the students are expected to learn some mathematical techniques required to understand the physical phenomena at the undergraduate level and get exposure to important ideas of statistical mechanics.</p> <ol style="list-style-type: none"> 1. The students are expected to be able to solve simple problems in probability, understand the concept of independent events and work with standard continuous distributions. 2. The students will have idea of the functions of complex variables; solve non homogeneous differential equations and partial differential equations using simple methods. The units on statistical mechanics would introduce the students to the concept of microstates, Boltzmann distribution and statistical origins of entropy. It is also expected that the student will understand the difference between different statistics, classical as well as quantum.
Solid State Physics	2.5	<p>On successful completion of this course students will be able to:</p> <ol style="list-style-type: none"> 1. Understand the basics of crystallography, Electrical properties of metals, Band Theory of solids, demarcation among the types of materials, Semiconductor Physics and Superconductivity. 2. Understand the basic concepts of Fermi probability distribution function, Density of states, conduction in semiconductors and BCS theory of superconductivity. 3. Demonstrate quantitative problem solving skills in all the topics covered.
Atomic and Molecular Physics	2.5	<p>Upon successful completion of this course, the student will understand</p> <ol style="list-style-type: none"> 1. the application of quantum mechanics in atomic physics 2. the importance of electron spin, symmetric and antisymmetric wave functions and vector atom model 3. Effect of magnetic field on atoms and its application 4. Learn Molecular physics and its applications. 5. This course will be useful to get an insight into spectroscopy.



Electrodynamics	2.5	<p>On successful completion of this course students will be able to:</p> <ol style="list-style-type: none"> 1) Understand the laws of electrodynamics and be able to perform calculations using them. 2) Understand Maxwell's electrodynamics and its relation to relativity 3) Understand how optical laws can be derived from electromagnetic principles. 4) Develop quantitative problem solving skills.
Practical's of Course USPH501 + Course USPH502	2.5	<p>The T. Y. B. Sc. Syllabus integrates the regular practical work with a series of skill experiments and the project. There will be separate passing head for project work. During the teaching and examination of Physics laboratory work, simple modifications of experimental parameters may be attempted. Attention should be given to basic skills of experimentation which include:</p>
Practicals of Course USPH503 + Course USPH504	2.5	<ol style="list-style-type: none"> i) Understanding relevant concepts. ii) Planning of the experiments iii) Layout and adjustments of the equipment's iv) Understanding designing of the experiments v) Attempts to make the experiments open ended vi) Recording of observations and plotting of graphs vii) Calculation of results and estimation of possible errors in the observation of results
Classical Mechanics	2.5	<p>This course will introduce the students to different aspects of classical mechanics. They would understand the kinds of motions that can occur under a central potential and their applications to planetary orbits. The students should also appreciate the effect of moving coordinate system, rectilinear as well as rotating. The students are expected to learn the concepts needed for the important formalism of Lagrange's equations and derive the equations using D'Alembert's principle. They should also be able to solve simple examples using this formalism. The introduction to simple concepts from fluid mechanics and understanding of the dynamics of rigid bodies is also expected. Finally, they should appreciate the drastic effect of adding nonlinear corrections to usual problems of mechanics and nonlinear mechanics can help understand their regularity we observe around us in nature.</p>



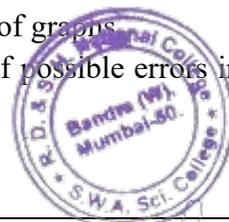
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Electronics	2.5	<p>On successful completion of this course students will be able to:</p> <ol style="list-style-type: none"> 1. Understand the basics of semiconductor devices and their applications. 2. Understand the basic concepts of operational amplifier: its prototype and applications as instrumentation amplifier, active filters, comparators and waveform generation. 3. Understand the basic concepts of timing pulse generation and regulated power supplies 4. Understand the basic electronic circuits for universal logic building blocks and basic concepts of digital communication. 5. Develop quantitative problem solving skills in all the topics covered.
Nuclear Physics	2.5	<p>The course is built on exploring the fundamentals of nuclear matter as well as considering some of the important applications of nuclear physics. Topics include decay modes – (alpha, beta & gamma decay), nuclear models (liquid drop model, introduction to shell model), Applications of Nuclear Physics in the field of particle accelerators and energy generation, nuclear forces and elementary particles. The lecture course will be integrated with problem solving.</p>



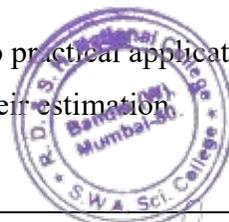
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Special Theory of Relativity	2.5	<p>This course introduces students to the essence of special relativity which revolutionized the concept of physics in the last century by unifying space and time, mass and energy, electricity and magnetism. This course also gives a very brief introduction of general relativity. After the completion of the course the student should be able to</p> <ol style="list-style-type: none"> 1. Understand the significance of Michelson Morley experiment and failure of the existing theories to explain the null result 2. Understand the importance of postulates of special relativity, Lorentz transformation equations and how it changed the way we look at space and time, Absolutism and relativity, Common sense versus Einstein concept of Space and time. 3. Understand the transformation equations for: Space and time, velocity, frequency, mass, momentum, force, Energy, Charge and current density, electric and magnetic fields. 4. Solve problems based on length contraction, time dilation, velocity addition, Doppler effect, mass energy relation and resolve paradoxes in relativity like twin paradox etc.
Practicals of Course USPH601 + Course USPH602	2.5	<p>SEMESTER VI</p> <p>The T. Y. B. Sc. Syllabus integrates the regular practical work with a series of demonstration experiments and the project. There will be separate passing head for project work. During the teaching and examination of Physics laboratory work, simple modifications of experimental parameters may be attempted. Attention should be given to basic skills of experimentation which include:</p>
Practicals of Course USPH603 + Course USPH604	2.5	<ol style="list-style-type: none"> i) Understanding relevant concepts. ii) Planning of the experiments. iii) Layout and adjustments of the equipments iv) Understanding designing of the experiments v) Attempts to make the experiments open ended vi) Recording of observations and plotting of graphs vii) Calculation of results and estimation of possible errors in the observation of results.



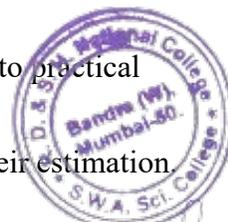
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USPH301 : Mechanics and thermodynamics	02	On successful completion of this course, students will be able to : i) Understand the concepts of mechanics & properties of matter & to apply them to problems. ii) Comprehend the basic concepts of thermodynamics & its applications in physical situation. iii) Learn about situations in low temperature. iv) Demonstrate tentative problem solving skills in all above areas.
USPH302 : Vector calculus, Analog Electronics	02	On successful completion of this course students will be able to : 1) Understand the basic concepts of mathematical physics and their applications in physical situations. 2) Understand the basic laws of electrodynamics and be able to perform calculations using them. 3) Understand the basics of transistor biasing, operational amplifiers, their applications 4) Understand the basic concepts of oscillators and be able to perform calculations using them. 5) Demonstrate quantitative problem solving skill in all the topics covered.
USPH303: Applied Physics - I	02	On completion of this, it is expected that i) Students will be exposed to contextual real life situations. ii) Students will appreciate the role of Physics in 'interdisciplinary areas related to materials and Acoustics etc. iii) The learner will understand the scope of the subject in Industry & Research. iv) Experimental learning opportunities will foster creative thinking & a spirit of inquiry.
USPHP3: Practical course -3	03	On successful completion of this course students will be able to : i) Understand & practice the skills while performing experiments. ii) Understand the use of apparatus and their use without fear & hesitation. iii) Correlate the physics theory concepts to practical application. iv) Understand the concept of errors and their estimation.



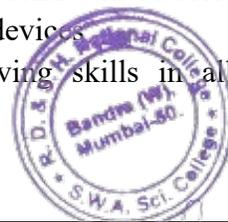
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USPH401 :Optics and Digital Electronics	02	<p>On successful completion of this course students will be able to :</p> <ol style="list-style-type: none"> 1) Understand the diffraction and polarization processes and applications of them in physical situations. 2) Understand the applications of interference in design and working of interferometers. 3) Understand the resolving power of different optical instruments.\ 4) Understand the working of digital circuits 5) Use IC 555 time for various timing applications. 6) Demonstrate quantitative problem solving skills in all the topics covered.
USPH402: QUANTUM PHYSICS	02	<p>On successful completion of this course students will be able to :</p> <ol style="list-style-type: none"> 1) Understand the postulates of quantum mechanics and to understand its importance in explaining significant phenomena in Physics. 2) Demonstrate quantitative problem solving skills in all the topics covered.
USPH403: Applied Physics - II	02	<p>On successful completion of this course, students will be able to :</p> <ol style="list-style-type: none"> i) Understand the concepts of mechanics & properties of matter & to apply them to problems. ii) Comprehend the basic concepts of thermodynamics & its applications in physical situation. iii) Learn about situations in low temperature. iv) Demonstrate tentative problem solving skills in all above areas.
USPHP4: Practical course -4	03	<p>On successful completion of this course students will be able to :</p> <ol style="list-style-type: none"> i) Understand &practise the skills while performing experiments. ii) Understand the use of apparatus and their use without fear & hesitation. iii) Correlate their physics theory concepts to practical application. iv) Understand the concept of errors and their estimation



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USPH101 Classical Physics	02	On successful completion of this course students will be able to: 1. Understand Newton's laws and apply them in calculations of the motion of simple systems. 2. Use the free body diagrams to analyse the forces on the object. 3. Understand the concepts of friction and the concepts of elasticity, fluid mechanics and be able to perform calculations using them. 4. Understand the concepts of lens system and interference. 5. Apply the laws of thermodynamics to formulate the relations necessary to analyze a thermodynamic process. 6. Demonstrate quantitative problem solving skills in all the topics covered
USPH102 Modern Physics	02	After successful completion of this course students will be able to 1. Understand nuclear properties and nuclear behavior. 2. Understand the type isotopes and their applications. 3. Demonstrate and understand the quantum mechanical concepts. 4. Demonstrate quantitative problem solving skills in all the topics covered
USPHP1 Practical I	02	On successful completion of this course students will be able to: i) To demonstrate their practical skills. ii) To understand and practice the skills while doing physics practical. iii) To understand the use of apparatus and their use without fear. iv) To correlate their physics theory concepts through practical. v) Understand the concepts of errors and their estimation.
USPH201 Mathematical Physics	02	On successful completion of this course students will be able to: 1. Understand the basic mathematical concepts and applications of them in physical situations. 2. Demonstrate quantitative problem solving skills in all the topics covered.
USPH202 Electricity and Electronics	02	On successful completion of this course students will be able to: 1. Understand the basic laws of electronic devices. 2. Demonstrate quantitative problem-solving skills in all the topics covered.



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USPHP2 Practical II	02	To understand and practice the skills while doing physics practical. ii) To understand the use of apparatus and their use without fear. iii) To correlate their physics theory concepts through practical. iv) Understand the concepts of errors and their estimation.
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BACHELOR OF SCIENCE - ZOOLOGY

1. *Name of Department:* **B.Sc - Zoology**

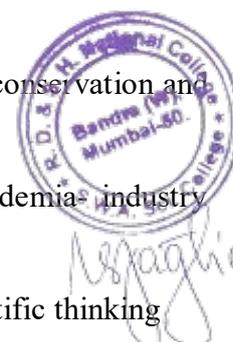
2. *Title of Programme:* **B.Sc.**

3. *Programme Outcomes:*

- Develop analytical abilities towards real world problems.
- Familiarize with current and recent scientific and technological developments.
- Develop Scientific temper, Critical thinking , enrich knowledge through problem solving , hands on activities, study visits , field visits , projects and research aptitude towards betterment of society.
- Capable of oral and written scientific communication to think critically and work independently. P05: Communicate effectively using graphical techniques, reports and presentations within a scientific environment.
- Pursue Master's Degree in Science, work in research related fields,P07: Apply for professionally job oriented courses.
- Eligible for various Government examinations conducted by UPSC, MPSC, IBPS, SSC etc.

4. *Programme Specific Outcomes:*

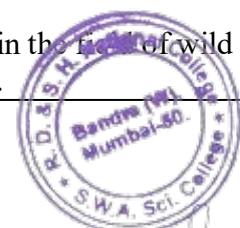
- Students will acquire interest for the subject of Zoology in the students
- Awareness in students about the basic and modern concepts of Zoology
- Students are oriented about the importance of abiotic and biotic factors of environment and their conservation.
- Students will have an insight to the basic nutritional and health aspects of human life and first aid.
- Inculcation of good laboratory practices in students. Students will be trained about scientific handling of laboratory instruments.
- Transformation of our traditional closed classroom teaching learning practices to more of field and activity based studies
- Students are oriented about co-existence, ecosystem, biodiversity, wildlife conservation and management.
- Instrumentation and Animal Biotechnology component would initiate academia-industry interface
- Students will get aware of the myths and will see things in the light of scientific thinking



- Peer teaching will enhance the learning of the content and make it enjoyable.
- Students will be able to take up small projects on vermicomposting.

5. Course Outcomes:

Title of the course	Course credit	Course outcome
USZO101	02	<ol style="list-style-type: none"> 1. Curiosity will be ignited in the mind of learners, to know more about the fascinating world of animals which would enhance their interest and love for the subject of Zoology. 2. Learners would appreciate treasure of Biodiversity, its importance and hence would contribute their best for its conservation. 3. Minds of learners would be impulsive to think differently and would be encouraged ipso facto to their original crude ideas from the field of biological sciences.
USZO102	02	<ol style="list-style-type: none"> 1. Learners would work safely in the laboratory and avoid occurrence of accidents (mishaps) which will boost their scholastic performance and economy in use of materials/chemicals during practical sessions. 2. Learners would understand recent advances in the subject and their applications for the betterment of mankind; and that the young minds would be tuned to think out of the box. 3. Students will be skilled to select and operate suitable instruments for the studies of different components of Zoology of this course and also of higher classes including research.
USZOP1	02	<ol style="list-style-type: none"> 1. To demonstrate their practical skills 2. To understand and practice the skills while doing Zoology practical 3. To understand the use of apparatus and their use without fear. 4. To correlate theory concepts through practical. 5. Understand the concepts of errors and their estimation. 6. Identify birds, snakes; types of bird feathers, leg & beaks, scales of fish; Corals and understand animal interactions, & adaptation. 7. Students will know safety symbols, Central tendencies and graphical representation of data, transgenic and cloned, pH indicators, Application of DNA Fingerprinting, use of microscope, colorimeter, pH meter & chromatography.
USZO201	02	<ol style="list-style-type: none"> 1. This unit would allow learners to study about nature of animal population, specific factors affecting its growth and its impact on the population of other lifeform. 2. Learners will grasp the concept of interdependence and interaction of physical, chemical and biological factors in the environment and will lead to better understanding about implications of loss of fauna specifically on human being, erupting spur of desire for conservation of all flora and fauna. 3. Learners would be inspired to choose career options in the field of wild life Conservation, research, photography and ecotourism.



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USZO202	02	<ol style="list-style-type: none"> 1. Healthy dietary habits would be inculcated in the life style of learners in order to prevent risk of developing health hazards in younger generation due to faulty eating habits. 2. Promoting optimum conservation of water, encouragement for maintaining adequate personal hygiene, optimum use of electronic gadgets, avoiding addiction, thus facilitating achievement of the goal of healthy young India in truesense. 3. Learners will be able to promptly recognize stress related problems at initial stages and would be able to adopt relevant solutions which would lead to psychologically strong mind set promoting positive attitude important for academics and would be able to acquire knowledge of cause, symptoms and precautions of infectious diseases.
USZOP2	02	<ol style="list-style-type: none"> 1. Interpret of the given graphs/ tables on Population Dynamics, food chains, ecological pyramids etc 2. Calculate Natality, Mortality, Population, etc 3. Estimate hardness, Free carbon dioxide, Vitamin C, protein, starch granules, maltose, moisture, food adulteration etc 4. Understand IUCN status given to animals and biodiversity hotspots, sanctuaries, national parks, biosphere reserves in India 5. Identify different Human Parasites, anaemic/non-anaemic persons 6. Students will learn the basics of First Aid and BMI analysis

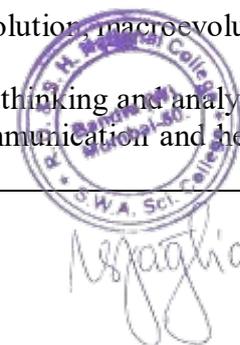
S.Y.B.Sc. Zoology On successful completion of this course students will be able to:

USZO301	02	<ol style="list-style-type: none"> 1. Learner would comprehend and apply the principles of inheritance to study heredity. 2. Learner will understand the concept of multiple alleles, linkage and crossing over 3. Learner will comprehend the structure of chromosomes and its types. 4. Learner will understand the mechanisms of sex determination. 5. Learner would be able to correlate the disorders linked to a particular sex chromosome 6. Learner will understand the importance of nucleic acids as genetic material. <p>C06: Learner would comprehend and appreciate the regulation of gene expressions.</p>
USZO302	02	<ol style="list-style-type: none"> 1. Learner would understand the increasing complexity of nutritional, excretory and osmoregulatory physiology in evolutionary hierarchy. 2. Learner would be able to correlate the habit and habitat with nutritional, excretory and osmoregulatory structures. 3. Learner would understand the increasing complexity of respiratory and circulatory physiology in evolutionary hierarchy. 4. Learner will be able to correlate the habit and habitat of animals with respiratory and circulatory organs. 5. Learner would understand the process of control and coordination by nervous and endocrine regulation. 6. Learner would be amazed by various locomotory structures found in the animal kingdom. 7. Learner would be acquainted with various reproductive strategies present in animals.

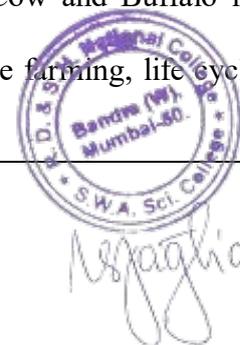


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USZOE303A ELECTIVE 1	02	<ol style="list-style-type: none"> 1. Learner would gain insight into different types of animal behaviour and their role in biological adaptations. 2. Learner would be sensitized to the feelings which are instrumental in social behaviour. 3. Learner would understand the general epidemiological aspects of parasites that affect humans and take simple preventive measures for the same. 4. Learner would comprehend the life cycle of specific parasites, the symptoms of the disease and its treatment. 5. Learner would gain knowledge on animals useful to mankind and the means to make the most of it. 6. Learner would learn the modern techniques in animal husbandry. 7. Learner would pursue entrepreneurship as a career.
USZOE303B ELECTIVE 2	02	<ol style="list-style-type: none"> 1. Learner will develop skills for maintenance of aquarium and become familiar with the budgeting aspects for setting up an ornamental fish farm. 2. Learner will derive knowledge about the biology of ornamental fishes, its food and feeding habits and their transportation. 3. Learner will gain information on the different types of pests and comprehend various aspects of agricultural and household pests and its economic implications. 4. Learner will derive knowledge of pest control measures and appliances used for plant protection against pests. 5. Learner would understand the concept of life time-line. 6. Learner will gain knowledge of and develop various skills while studying amazing animals.
USZOP3	03	<ol style="list-style-type: none"> 1. Extract and detect DNA, RNA; Identify Barr body, polytene chromosome, mitosis, Blood group, Chromosome morphology 2. Solve problems in Genetics, Pedigree analysis, molecular biology 3. Analysis Normal and Abnormal constituents of urine, detect ammonia excreted by fish uric acid from excreta of birds 4. Understand striated and non-striated muscle fibre, different nutritional apparatus, respiratory structures, locomotory organs, circulatory organs Reproductive organs, etc 5. Extract casein, prepare paneer, measure density of milk C04: Understand ethological aspects, apiculture: 6. Identify and understand different types of human parasites and Parasitic adaptations 7. Take up small projects on Vermicomposting and Aquarium Maintenance 8. Identify types of pest and its control, hybrid animals, Most incredible animals in last decades, Endangered animals of India
USZO401	02	<ol style="list-style-type: none"> 1. Learner will gain insights into the origin of life. 2. Learner will analyse and critically view the different theories of Evolution 3. Learner would understand the forces that cause evolutionary changes in natural populations 4. Learner would comprehend the mechanisms of speciation 5. Learner will be able to distinguish between microevolution, macroevolution and megaevolution 6. The learner would develop qualities such as critical thinking and analysis 7. The learner will imbibe the skills of scientific communication and he/she will understand the ethical aspects of research



USZO402	02	<ol style="list-style-type: none"> 1. Learner would acquire insight into the composition of the transport mechanisms adopted by the cell and its organelles for its maintenance and composition of cell 2. Learner would appreciate the intricacy of endomembrane system. 3. Learner would understand the interlinking of endomembrane system for functioning of cell 4. The learner will realize the importance of biomolecules and their clinical significance.
USZO403A ELECTIVE 1	02	<ol style="list-style-type: none"> 1. Learner will be able to understand and compare the different types of eggs and sperms 2. Learner will be able to understand and compare the different pre- embryonic stages 3. Learners will able to understand human reproductive physiology 4. Learners will become familiar with advances in ART and related ethical issues 5. The learners will be sensitized about the adverse effects of pollution and measures to control it.
USZO403B ELECTIVE 2	02	<ol style="list-style-type: none"> 1. Learner would gain knowledge on the functioning of various aspects of dairy industry, indigenous, exotic cattle and buffalo breeds in India. 2. Learner will study different systems of breeding and gain information regarding various aspects pertaining to housing of dairy animals. 3. Learner would understand the basics of the functioning of sericulture industry and its scope in India. 4. Learner shall gain knowledge on the varieties of silkworms, host-plants and aspects on silk extraction and the diseases afflicting silk-worms 5. Learner shall understand the aquaculture practices and the scope of fishery in India. 6. Learner would gain knowledge of various techniques employed in aquaculture practices.
USZOP4	03	<ol style="list-style-type: none"> 1. Calculate population density by Line transect method & Quadrant method, differentiate between prokaryotic cells and eukaryotic, identify fossils, speciation, write abstract and bibliography, understand osmosis, Measure cell diameter, detect carbohydrates, protein, lipids and its rancidity, understand Ultrastructure of cell organelles and clinical disorders 2. Analysis air microflora, estimate dissolved oxygen, Salinity, conductivity from sample, understand physical, chemical properties of soil, detect sound pollution, detect pregnancy and understand birth control measures applicable to humans pills, understand reproductive and development biology and write a review on programmes and understand natural ecosystem through experience. 3. Estimate and compare of protein, fat content in Cow and Buffalo milk, prepare of falooda, caramel custard 4. Understand use of Restraining devices used in cattle farming, life cycle of Bombyx mori 5. Identify commercially important fishery



BACHELOR OF SCIENCE - MATHEMATICS AND STATISTICS

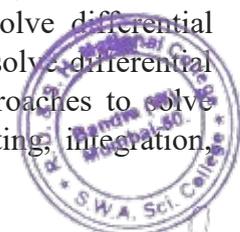
1. *Name of Department:* **Department of Mathematics and Statistics**
2. *Title of Programme:* **B.Sc.**
3. *Programme Specific Outcomes:*

FYBSC:

- Calculus (Sem I & II): This course gives introduction to basic concepts of Analysis with rigor and prepares students to study further courses in Analysis. Formal proofs are given a lot of emphasis in this course which also enhances understanding of the subject of Mathematics as a whole. The portion on first order, first degree differentials prepare learners to get solutions of so many kinds of problems in all subjects of science and also prepares learners for further studies of differential equations and related fields.
- Algebra I (Sem I) & Discrete Mathematics (Sem II): This course gives expositions to number systems (Natural Numbers & Integers), like divisibility and prime numbers and their properties. These topics later find use in advanced subjects like cryptography and its uses in cyber security and such related fields.

SYBSC:

- Calculus (Sem III & IV): This course introduces students' infinite series, Riemann integration and multivariable calculus in a rigorous way. Students learn the Riemann theory of integration and understand proofs of various integration formulae applied in science. The fundamental theorem of calculus gives them relation between integration and derivatives. In multivariate calculus students understand how to extend limits, continuity and derivatives from single variable calculus. Students learn applications of derivatives to understand theory of differential equations and optimization techniques.
- Linear Algebra I & II (Sem III & IV): This course gives systematic study of linear system and Matrices. Introduces vector spaces, and prepares students to study more abstract Mathematics. Determinants and factorization methods for matrices are learned. The approach is more abstract and rigorous for studying system of linear equations and methods to solve them. Further students study linear transformation, their representations using Matrices in finite dimensional cases. The student learns inner product spaces. Also eigenvalues, eigenvectors and diagonalization for matrices are learned. This is the most applied part of Mathematics in other branches of science.
- Ordinary Differential Equations & Numerical Methods (Sem III & IV). This course introduces students to applicable Mathematics. Analytical methods to solve differential equations are learned for particular types. Further numerical methods to solve differential equations are introduced. Also students are introduced to numerical approaches to solve algebraic and transcendental equations, interpolation problems, curve fitting, integration, solving linear systems and finding eigenvalues.



4. Course Outcomes:

Title of the course	Course credit	Course outcome
Calculus I	02	1. Students can do basic theorems and proofs about real number system, real sequences and are able to solve first order differential equations with some techniques.
Algebra I	02	1. Students can do basic theorems and proofs about integers, divisibility, functions, relations, binary operations and polynomials.
Practicals USMTP01	02	1. Students can do simple problems in Calculus I and Algebra I.
Calculus II	02	1. Students can do basic theorems and proofs about limits, continuity and derivatives of single variable functions.
Discrete Mathematics	02	1. Students can do basic theorems and proofs about simple and advanced counting, permutations and recurrence relations.
Practicals USMTP02	02	1. Students can do simple problems in Calculus II and Discrete Mathematics.
Calculus III	02	1. Students can do basic theorems and proofs about infinite series, Reimann integration and improper integrals with applications.
Linear Algebra I	02	1. Students can do basic theorems and proofs about system of equations and matrices, vector spaces over field of real numbers, determinants and linear equations.
Ordinary Differential Equations	02	1. Students can do basic theorems, proofs and solving Higher Order linear Differential Equations, Systems of First Order 2, 3 Linear differential equations, Numerical Solutions of Ordinary Differential Equations
Practicals USMTP03	02	1. Students can do simple problems in calculus III, Linear Algebra I and ORDINARY DIFFERENTIAL EQUATIONS.
Multivariable Calculus I	02	1. Students can do basic theorems and proofs about multivariate sequences, limits, continuity, derivative and applications.



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BIOTECHNOLOGY

1. *Name of Department:* Department of Biotechnology

2. *Title of Programme:* B.Sc. - Biotechnology

3. *Programme Outcomes:*

- a) Enable learners to explore diverse careers in Education, Research and Industrial sectors.
- b) Imparting hands-on skills required for enabling learner transition into professional scientist.
- c) Demonstrate proficiency in basic laboratory skills common to clinical and non-clinical research laboratories, including aseptic technique, making accurate and precise measurements using balances and macro- and micro-pipetting, using a microscope, preparing solutions, operating current instrumentation, preparing samples for various analyses, and maintaining a proper scientific laboratory notebook.

4. *Programme Specific Outcomes:*

- Demonstrate knowledge for in-depth analytical and critical thinking to identify, formulate and solve the issues related to Biotechnology Industry, Pharma Industry, Medical or hospital related organizations, Regulatory Agencies, & Academia
- Develop an ability to solve, analyse and interpret data generated from experiments done in project work or practical courses
- Appreciate and execute their professional roles in society as biotechnology professionals, employers and employees in various industries, regulators, researchers, educators and managers.



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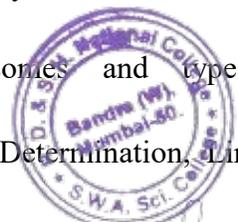
5. Course Outcomes:

Title of the course	Course credit	Course outcome
Basic Chemistry I	2	1. To acquaint the students with basic concepts of Chemistry like Classification and Nomenclature of Chemical compounds and to impart hands-on skills in preparation of Buffers and Solutions.
Basic Chemistry II	2	1. To acquaint students with Concepts of Stereochemistry and to impart knowledge of Titrimetric and Volumetric Estimations and handling of basic Analytical Techniques like Chromatography and Colorimetry
Basic Life Sciences-I : Biodiversity and Cell Biology	2	1. To acquaint students with concept of Biodiversity and Cell Biology and to impart skill in handling and culture of Microorganisms
Basic Life Sciences-II : Microbial Techniques	2	1. To acquaint students with basic techniques in Staining and Sterilization and to impart the knowledge of growth of microorganisms
Basic Biotechnology-I : Introduction to Biotechnology	2	1. To acquaint students with various fields of Biotechnology and their applications and to impart the knowledge of Food Technology and Fermentation Techniques
Basic Biotechnology-II : Molecular Biology	2	1. To acquaint students with DNA Replication, Repair and Genetic Engineering and to Impart the knowledge of molecular Biology Techniques
Societal Awareness	2	1. To acquaint the students with concepts of Societal Awareness and to impart knowledge of Society and make students aware about the Problems in Society
Chemistry-I : Bioorganic Chemistry	2	1. To acquaint students with Bioorganic Molecules and to impart the knowledge of Classification, Structure and Characterization of Biomolecules
Chemistry-II : Physical Chemistry	2	1. To acquaint students with concepts in Thermodynamics, Kinetics and Redox Reactions and to impart skills in Kinetics and Chemical Reactions



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Life Sciences-I : Physiology and Ecology	2	1. To acquaint students with Physiological Processes in Plants and Animals and to impart the knowledge of Physiology and Ecology
Life Sciences-II : Genetics	2	1. To acquaint students with concepts in Genetics and to impart skills in Techniques in Genetic Analysis and Population Genetics
Biotechnology-I : Tissue Culture & Scientific Writing and Communication Skills	2	1. To acquaint students with Techniques of Plant and Animal Tissue Culture and to impart the skills of PTC, ATC and Science Communication
Biotechnology-II : Enzymology, Immunology and Biostatistics	2	1. To acquaint students with concepts in Enzymology, Immunology and Biostatistics and impart the skills in Enzyme Kinetics, Immunological Techniques and Biostatistics
Globalization, Ecology and Sustainable Development	2	1. To acquaint the students with concepts of Globalization, Ecology and Environment and to impart knowledge of Globalization make students aware about the Problems in Society
Biophysics	2	1. Develop an understanding of the different aspects of classical Physics. Be able to relate principles of Physics to applications and techniques in the field of Biology such as Microscopy, Spectroscopy and Electrophoresis.
Applied Chemistry -I	2	1. Develop an understanding of the different aspects of Organic and Green Chemistry. 2. Discuss role of Organic Compound sin Biology and Synthesis of Organic Compounds. 3. Discuss role of Green Chemistry and its application in Industry.
Immunology	2	1. Understand the role of different types of Cells, Effector Molecules and Effector Mechanisms in Immunology. 2. Understand the principles underlying various Immuno techniques.
Cell Biology and Cytogenetics	2	1. Develop an understanding of the Cytoskeleton and Cell Membrane. 2. Discuss the structure of Chromosomes and types of Chromosomal Aberrations. 3. Discuss the principles underlying Sex Determination, Linkage and Mapping.



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Molecular Biology	2	<ol style="list-style-type: none"> 1. Discuss the mechanisms associated with Gene Expression at the level of Transcription and Translation. 2. Discuss the mechanisms associated with Regulation of Gene Expression in Prokaryotes and Eukaryotes
Bioprocess Technology	2	<ol style="list-style-type: none"> 1. Develop an understanding of the various aspects of Bioprocess Technology. Develop skills associated with screening of Industrially Important Strains. Understand principles underlying design of Fermentor and Fermentation Process.
Research Methodology	2	<ol style="list-style-type: none"> 1. Understand basic principles of Research Methodology and identify a Research Problem. 2. Understand a general definition of Research Design. Identify the overall Process of Designing a Research Study from its inception to its Report.
Biochemistry	2	<ol style="list-style-type: none"> 1. Discuss the Metabolic Pathways of Carbohydrates, Amino Acids, Lipids and Nucleotides. 2. Explain the Role of Energy Rich Molecules in Metabolism.
Applied Chemistry –II	2	<ol style="list-style-type: none"> 1. Develop an understanding of the different aspects of Analytical Chemistry. 2. Gain knowledge of Natural Product Chemistry and related acquired skills. Gain an understanding of basic concepts in Polymer Chemistry and Nanomaterials.
Medical Microbiology	2	<ol style="list-style-type: none"> 1. List the factors playing a role in causing a disease. 2. Discuss the various aspects of Systemic Infections including Causative Agents, Symptoms and Prophylaxis. 3. Gain the technical capability of handling, isolating and identifying various Bacteria.
Environmental Biotechnology	2	<ol style="list-style-type: none"> 1. Gain an understanding of the causes, types and control methods for Environmental Pollution. 2. Application of different life forms in Environmental Remediation.



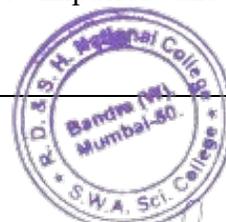
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Bioinformatics and Biostatistics	2	<ol style="list-style-type: none"> 1. Gain an understanding of the basic concepts of Bioinformatics and Biostatistics. 2. Understand the tools used in Bioinformatics. 3. Apply the various Statistical Tools for Analysis of Biological Data.
Molecular Diagnostics	2	<ol style="list-style-type: none"> 1. Gain an understanding of the basic Principles used in Molecular Diagnosis. 2. Gain critical thinking and analytical skills to understand new Diagnostic Methods. 3. Apply the knowledge and skills gained in the course should be useful in developing new Diagnostic Kits.
Entrepreneurships Development	2	<ol style="list-style-type: none"> 1. Develop an understanding of the systematic process and to select and screen a Business Idea. 2. Design strategies for successful implementation of ideas. 3. Write a Business Plan.
Cell Biology	2.5	<ol style="list-style-type: none"> 1. Gain knowledge about the cell multiplication and death at molecular level. 2. Understand the molecules involved in cell signalling. 3. Gain an understanding of the basic concepts of events during fertilization and early embryonic development. 4. Gain insight into the biology of cancer cells.
Medical Microbiology and Instrumentation	2.5	<ol style="list-style-type: none"> 1. By the end of the course the student will be able to: 2. Learn the different type of virus cultivation 3. Understand the development and mode of action of antimicrobial, antifungal and antiviral drugs. 4. Get an insight into the various spectroscopic methods used in biological studies. 5. Understand the principle and applications of chromatographic and tracer techniques.



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Genomics and Molecular Biology	2.5	<ol style="list-style-type: none"> 1. By the end of the course the student will be able to: 2. Use molecular biology tools and techniques in the field of biotechnology. 3. Gain knowledge regarding recent developments in genome sequencing and editing. 4. Understand the basis of gene cloning and development of transgenic animals and plants.
Marine Biotechnology	2.5	<ol style="list-style-type: none"> 1. By the end of the course the student will be able to: 2. Gain insight in the field of marine biotechnology.
Biochemistry	2.5	<ol style="list-style-type: none"> 1. By the end of the course the student will be able to: 2. Understand the biosynthetic pathways and regulation of biomolecules like carbohydrates and lipids. 3. Learn the various functioning of endocrine gland secretions with their associated disorders. 4. Understand the functioning of vitamins and minerals in the body and gain an insight in the concept of nutrition.
Industrial Microbiology	2.5	<ol style="list-style-type: none"> 1. By the end of the course the student will be able to: 2. Gain insight in the various processes involved in production of commercially available dairy products. 3. Have an in depth understanding of downstream processes. 4. Understand and gain insight in the various processes involved in production of commercial products. 5. Understand the importance of GMP and its relevance in bioprocesses.
Basic pharmacology and Neuro chemistry	2.5	<ol style="list-style-type: none"> 1. By the end of the course the student will be able to: 2. Understand the mechanisms of drug delivery and action in the body. 3. Get an understanding in the concepts of bioavailability and distribution. 4. In depth knowledge on toxic substances and poisons 5. Understand the biochemistry of nerve impulses and brain functioning.



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Environmental Biotechnology	2.5	<ol style="list-style-type: none">1. By the end of the course the student will be able to:2. Get an insight on the different traditional and new sources of renewable energy.3. Understand the principles and practices involved in treatment of industrial effluent4. Gain an insight in the management and treatment of wastewater.5. Understand the disposal of waste from different industries.
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COMPUTER SCIENCE

1. *Name of Department:* **Department of Computer Science**

2. *Title of Programme:* **BSc CS & MSc CS**

3. *Programme Outcomes:*

- To develop an understanding and knowledge of the basic theory of Computer Science with good foundation on theory, systems and applications.
- To foster necessary skills and analytical abilities for developing computer based solutions of real-life problems.
- To provide training in emergent computing technologies which lead to innovative solutions for industry and academia.
- To develop the necessary study skills and knowledge to pursue further post-graduate study in computer science or other related fields.
- To develop the professional skillset required for a career in an information technology oriented business or industry.
- To enable students to work independently and collaboratively, communicate effectively, and become responsible, competent, confident, insightful, and creative users of computing technology

4. *Programme Specific Outcomes:*

- To formulate, to model, to design solutions, procedure and to use software tools to solve real world problems.
- To design and develop computer programs/computer -based systems in the areas such as networking, web design, security, cloud computing, IoT, data science and other emerging technologies.
- To familiarize with the modern-day trends in industry and research based settings and thereby innovate novel solutions to existing problems.
- To apply concepts, principles, and theories relating to computer science to new situations.
- To use current techniques, skills, and tools necessary for computing practice
- To apply standard Software Engineering practices and strategies in real-time software project development.
- To pursue higher studies of specialization and to take up technical employment

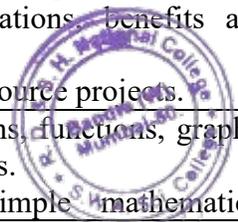


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- To work independently or collaboratively as an effective team member on a substantial software project.
- To communicate and present their work effectively and coherently.
- To display ethical code of conduct in usage of Internet and Cyber systems.
- To engage in independent and life-long learning in the background of rapid changing IT Industry

5. Course Outcomes:

Title of the course	Course credit	Course outcome
Design & Analysis of Algorithms	02	<ol style="list-style-type: none"> 1. To learn about how computer systems work and underlying principles 2. To understand the basics of digital electronics needed for computers 3. To understand the basics of instruction set architecture for reduced and complex instruction sets 4. To understand the basics of processor structure and operation 5. To understand how data is transferred between the processor and I/O devices
Introduction to Programming with Python	02	<ol style="list-style-type: none"> 1. Ability to store, manipulate and access data in Python 2. Ability to implement basic Input / Output operations in Python 3. Ability to define the structure and components of a Python program. Ability to learn how to write loops and decision statements in Python. Ability to learn how to write functions and pass arguments in Python. Ability to create and use Compound data types in Python
LINUX Operating System	02	<ol style="list-style-type: none"> 1. Work with Linux file system structure, Linux Environment 2. Handle shell commands for scripting, with features of regular expressions, redirections 3. Implement file security permissions 4. Work with vi, sed and awk editors for shell scripting using various control structures 5. Install softwares like compilers and develop programs in C and Python programming languages on Linux Platform
Open Source Technologies	02	<ol style="list-style-type: none"> 1. Differentiate between Open Source and Proprietary software and Licensing. Recognize the applications, benefits and features of Open-Source Technologies. 2. Gain knowledge to start, manage open-source projects.
Discrete Mathematics	02	<ol style="list-style-type: none"> 1. Define mathematical structures (relations, functions, graphs) and use them to model real life situations. 2. Understand, construct and solve simple mathematical



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		<p>problems.</p> <ol style="list-style-type: none"> Solve puzzles based on counting principles. Provide basic knowledge about models of automata theory and the corresponding formal languages. Develop an attitude to solve problems based on graphs and trees, which are widely used in software
Descriptive Statistics	02	<ol style="list-style-type: none"> Organize, manage and present data. Analyze Statistical data using measures of central tendency and dispersion. Analyze Statistical data using basics techniques of R. Study the relationship between variables using techniques of correlation and regression
Soft Skills	02	<ol style="list-style-type: none"> Learners will be able to understand the importance and types soft skills Learners will develop skills for Academic and Professional Presentations. Learners will able to understand Leadership Qualities and Ethics. Ability to understand the importance of stress management in their academic & professional life
Design & Analysis of Algorithms	02	<ol style="list-style-type: none"> Students should be able to understand and evaluate efficiency of the programs that they write based on performance of the algorithms used. Students should be able to appreciate the use of various data structures as per need to select, decide and apply appropriate design principle by understanding the requirements of any real life problems
Advanced Python Programming	02	<ol style="list-style-type: none"> Ability to implement OOP concepts in Python including Inheritance and Polymorphism. Ability to work with files and perform operations on it using Python. Ability to implement regular expression and concept of threads for developing efficient program Ability to implement exception handling in Python applications for error handling. Knowledge of working with databases, designing GUI in Python and implement networking in Python
Introduction to OOPs using C++	02	<ol style="list-style-type: none"> Work with numeric, character and textual data and arrays. Understand the importance of OOP approach over procedural language. Understand how to model classes and relationships using UML. Apply the concepts of OOPS like encapsulation, inheritance and polymorphism. Handle basic file operations.
Database Systems	02	<ol style="list-style-type: none"> To appreciate the importance of database design. Analyze database requirements and determine the entities involved in the system and their relationship to one another. Write simple queries to MySQL related to String, Maths and



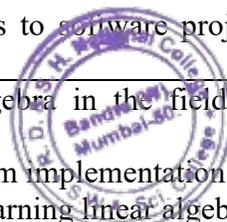
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		<p>Date Functions. Create tables and insert/update/delete data, and query data in a relational DBMS using MySQL commands.</p> <ol style="list-style-type: none"> Understand the normalization and its role in the database design process and handle data permissions. Create indexes and understands the role of Indexes in optimization search
Calculus	02	<ol style="list-style-type: none"> Develop mathematical skills and enhance thinking power of learners. Understand mathematical concepts like limit, continuity, derivative, integration of functions, partial derivatives. Appreciate real world applications which use the learned concepts. Skill to formulate a problem through Mathematical modelling and simulation.
Statistical Methods	02	<ol style="list-style-type: none"> Calculate probability, conditional probability and independence. Apply the given discrete and continuous distributions whenever necessary. Define null hypothesis, alternative hypothesis, level of significance, test statistic and p value. Perform Test of Hypothesis as well as calculate confidence interval for a population parameter for single sample and two sample cases. Apply non-parametric test whenever necessary. Conduct and interpret one-way and two-way ANOVA.
E-Commerce & Digital Marketing		<ol style="list-style-type: none"> Object oriented programming concepts using Java. Knowledge of input, its processing and getting suitable output. Understand, design, implement and evaluate classes and applets. Knowledge and implementation of AWT package.
Theory of Computation	02	<ol style="list-style-type: none"> Understand Grammar and Languages Learn about Automata theory and its application in Language Design Learn about Turing Machines and Pushdown Automata Understand Linear Bound Automata and its applications
Core Java	02	<ol style="list-style-type: none"> Object oriented programming concepts using Java. Knowledge of input, its processing and getting suitable output. Understand, design, implement and evaluate classes and applets. Knowledge and implementation of AWT package.
Operating System	02	<ol style="list-style-type: none"> To provide a understanding of operating system, its structures and functioning Develop and master understanding of algorithms used by operating systems for various purposes.



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Database Management Systems	02	<ol style="list-style-type: none"> 1. Master concepts of stored procedure and triggers and its use. 2. Learn about using PL/SQL for data management 3. Understand concepts and implementations of transaction management and crash recovery
Combinatorics and Graph Theory	02	<ol style="list-style-type: none"> 1. Appreciate beauty of combinatorics and how combinatorial problems naturally arise in many settings. 2. Understand the combinatorial features in real world situations and Computer Science applications. 3. Apply combinatorial and graph theoretical concepts to understand Computer Science concepts and apply them to solve problems
Physical Computing and IoT Programming	02	<ol style="list-style-type: none"> 1. Enable learners to understand System On Chip Architectures. 2. Introduction and preparing Raspberry Pi with hardware and installation. 3. Learn physical interfaces and electronics of Raspberry Pi and program them using practical's 4. Learn how to make consumer grade IoT safe and secure with proper use of protocols
Web Programming	02	<ol style="list-style-type: none"> 1. To design valid, well-formed, scalable, and meaningful pages using emerging technologies. 2. Understand the various platforms, devices, display resolutions, viewports, and browsers that render websites 3. To develop and implement client-side and server-side scripting language programs. 4. To develop and implement Database Driven Websites. Design and apply XML to create a markup language for data and document centric applications.
Funda3mentals of Algorithms	02	<ol style="list-style-type: none"> 1. Understand the concepts of algorithms for designing good program Implement algorithms using Python
Advanced Java	02	<ol style="list-style-type: none"> 1. Understand the concepts related to Java Technology 2. Explore and understand use of Java Server Programming
Computer Networks	02	<ol style="list-style-type: none"> 1. Learner will be able to understand the concepts of networking, which are important for them to be known as a 'networking professionals'. 2. Useful to proceed with industrial requirements and International vendor certifications.
Software Engineering	02	<ol style="list-style-type: none"> 1. Learn and understand the Concepts of Software Engineering 2. Learn and understand Software Development Life Cycle 3. Apply the project management and analysis principles to software project development 4. Apply the design and testing principles to software project development
Linear Algebra using Python	02	<ol style="list-style-type: none"> 1. Appreciate the relevance of linear algebra in the field of computer science. 2. Understand the concepts through program implementation 3. Instill a computational thinking while learning linear algebra.



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.Net Technologies	02	<ol style="list-style-type: none"> 1. Understand the .NET framework 2. Develop a proficiency in the C# programming language 3. Proficiently develop ASP.NET web applications using C# 4. Use ADO.NET for data persistence in a web application
Android Developer Fundamentals	02	<ol style="list-style-type: none"> 1. Understand the requirements of Mobile programming environment. 2. Learn about basic methods, tools and techniques for developing Apps Explore and practice App development on Android Platform. 3. Develop working prototypes of working systems for various uses in daily lives
Artificial Intelligence	02	<ol style="list-style-type: none"> 1. After completion of this course, learner should get a clear understanding of AI and different search algorithms used for solving problems. 2. The learner should also get acquainted with different learning algorithms and models used in machine learning.
Software Testing and Quality Assurance	02	<ol style="list-style-type: none"> 1. Student will understand various software testing methods and strategies. 2. Understand a variety of software metrics, and identify defects and managing those defects for improvement in quality for given software. 3. Design SQA activities, SQA strategy, formal technical review report for software quality control and assurance.
Information and Network Security	02	<ol style="list-style-type: none"> 1. Understand the principles and practices of cryptographic techniques. 2. Understand a variety of generic security threats and vulnerabilities, and identify & analyze particular security problems for a given application. 3. Understand various protocols for network security to protect against the threats in a network
Web Services	02	<ol style="list-style-type: none"> 1. Emphasis on SOAP based web services and associated standards such as WSDL. 2. Design SOAP based / RESTful / WCF services Deal with Security and QoS issues of Web Services
Game Programming	02	<ol style="list-style-type: none"> 1. Learner should study Graphics and gaming concepts with present working style of developers where everything remains on internet and they need to review it, understand it, be a part of community and learn.
Wireless Sensor Networks and Mobile Communication	02	<ol style="list-style-type: none"> 1. After completion of this course, learner should be able to list various applications of wireless sensor networks, describe the concepts, protocols, design, implementation and use of wireless sensor networks. Also implement and evaluate new ideas for solving wireless sensor network design issues.
Cyber Forensics	02	<ol style="list-style-type: none"> 1. The student will be able to plan and prepare for all stages of an investigation - detection, initial response and management interaction, investigate various media to collect evidence,

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		report them in a way that would be acceptable in the court of law.
Information Retrieval	02	1. After completion of this course, learner should get an understanding of the field of information retrieval and its relationship to search engines. It will give the learner an understanding to apply information retrieval models.
Data Science	02	1. After completion of this course, the students should be able to understand & comprehend the problem; and should be able to define suitable statistical method to be adopted.
Ethical Hacking	02	1. Learner will know to identify security vulnerabilities and weaknesses in the target applications. 2. They will also know to test and exploit systems using various tools and understand the impact of hacking in real time machines.



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INFORMATION TECHNOLOGY

1. *Name of Department:* **Department of Information Technology**

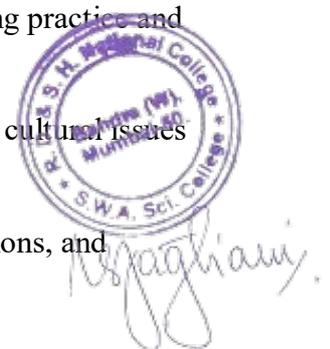
2. *Title of Programme:* **BSc IT**

3. *Programme Outcomes:*

- To think analytically, creatively and critically in developing robust, extensible and
- Highly maintainable technological solutions to simple and complex problems.
- To apply their knowledge and skills to be employed and excel in IT professional careers and/or to continue their education in IT and/or related post graduate programmes.
- To be capable of managing complex IT projects with consideration of the human, financial and environmental factors.
- To work effectively as a part of a team to achieve a common stated goal.
- To adhere to the highest standards of ethics, including relevant industry and organizational codes of conduct.
- To communicate effectively with a range of audiences both technical and non-technical.
- To develop an aptitude to engage in continuing professional development.

4. *Programme Specific Outcomes:*

- Apply the knowledge of mathematics, science and computing in the core information technologies.
- Identify, design, and analyze complex computer systems and implement and interpret the results from those systems.
- Design, implement and evaluate a computer-based system, or process component, to meet the desired needs within the realistic constraints such as economic, environmental, social, political, ethical, health and safety, maneuverability, and sustainability.
- Review literature and indulge in research using research based knowledge and methods to design new experiments, analyze, and interpret data to draw valid conclusions.
- Select and apply current techniques, skills, and tools necessary for computing practice and integrate IT-based solutions into the user environment effectively.
- Apply contextual knowledge to assess professional, legal, health, social and cultural issues during profession practice.
- Analyze the local and global impact of computing on individuals, organizations, and society.
- Apply ethical principles and responsibilities during professional practice.



- Function effectively as a team member or a leader to accomplish a common goal in a multidisciplinary team.
- Communicate effectively with a range of audiences using a range of modalities including written, oral and graphical.
- Apply the knowledge of engineering and management principles to manage projects effectively in diverse environments as a member or a leader in the team.
- Engage in independent and life-long learning for continued professional development.

5. Course Outcomes:

Title of the course	Course credit	Course outcome
Imperative Programming	2	1. To introduce different programming paradigms and develop logic for writing high level language programs. Students would be able to understand the basic concept of programming constructs and Procedure Oriented Programming. 2. To familiarize the students with the basic understanding of flowcharts and algorithms. Students would develop basic understanding of flowcharts, the concept of algorithm and algorithmic thinking.
Digital Electronics	2	1. To make students learn different types of number systems. Students would understand and examine the structure of various number systems and its application in digital design. 2. To make students acquire the basic knowledge of digital logic levels and application of knowledge to understand digital electronics circuits. Students would develop the basic knowledge of digital logic and application of knowledge to understand digital electronics circuits. 3. To prepare students to perform the analysis and design of various digital electronic circuits. Students would develop an ability to analyze and design various digital electronic circuits

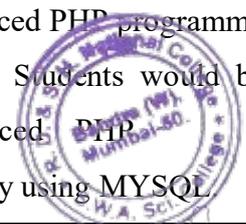


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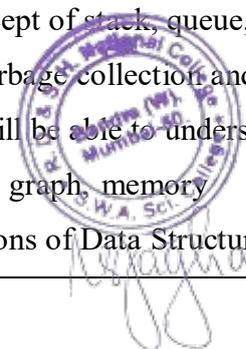
Operating Systems	2	<ol style="list-style-type: none"> 1. To make students learn the fundamentals of Operating Systems. Students would develop an ability to analyze the structure of OS and basic architectural components involved in OS design. 2. To make students learn the mechanisms of OS to handle processes and threads and their communication. Students would develop an ability to compare the various algorithms used for management of memory, CPU scheduling, file handling and I/O operations. 3. To make students gain knowledge on distributed operating system concepts that includes architecture, mutual exclusion algorithms, deadlock detection algorithms and agreement protocols. Students would understand the mutual exclusion, Deadlock detection and agreement protocols of Distributed operating system
Discrete Mathematics	2	<ol style="list-style-type: none"> 1. To make students learn the basic principles of set, basic set equalities, the basic concepts of relations and functions and the basic concepts of graphs and trees. Students would understand the basic principles of set, basic set equalities, the basic concepts of relations and functions. 2. To make students learn writing an argument using logical notation and determine if the argument is valid or invalid. Students would be able to write an argument using logical notation and determine if the argument is valid or invalid. 3. To make students learn the basic concepts of Students would be able to understand basic data structures in mathematics. concepts of graphs and trees



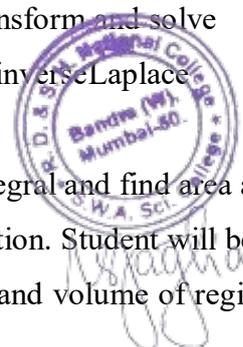
Communication Skills	2	<ol style="list-style-type: none"> 1. Acquaint students with the theoretical landscape of communication as it applies to individual employees in business. Students would understand process, nature and various domains of communication application. 2. To familiarize students with application of this theory for effective written, oral and interpersonal communication. Students would familiarize with basic conventions and principles of effective written, oral and interpersonal communication.
Object Oriented Programming	2	<ol style="list-style-type: none"> 1. To enable students to understand object-oriented programming. Students would be able to understand the basic concept of Object Oriented Programming. 2. To explain the difference between object-oriented programming and procedural programming. Students would be able to understand the basics of computer programming. The problem-solving approaches in different programming languages, variables, operators. 3. To teach the various types of statements and looping constructs. Students would be able to understand the purpose of control statements: selection and looping statements.
Microprocessor Architecture	2	<ol style="list-style-type: none"> 1. To enable the students to learn the concept of assembly languages and acquire knowledge about 8085 microprocessors. Students will learn to apply the fundamentals of assembly language and acquire basic knowledge of microprocessors. 2. To educate the students about 8085 architecture and instruction set. Students would be able to understand the history and architecture of microprocessors and 8085 instructions set.
Web Programming	2	<ol style="list-style-type: none"> 1. To make the students learn web history, website organization, HTML, graphics use, page and site design, with a brief look at CSS, and JavaScript. Students would be able to learn standard compliant CSS and JavaScript to present HTML5 pages. 2. To enable students learn the basic and advanced PHP programming with Database connectivity using MySQL. Students would be able to understand the basic and advanced PHP programming with Database connectivity using MySQL.



Numerical and Statistical Methods	2	<ol style="list-style-type: none"> 1. To make the students analyze the errors obtained in the numerical solution of problems. Students will be able to analyze the errors obtained in the numerical solution of problems. 2. To help students to learn the use of appropriate numerical method to determine approximate solution of algebraic and transcendental equations, system of linear equations, ordinary differential equation and integration. Students will be able to use appropriate numerical method to determine approximate solution of, algebraic and transcendental equations, system of linear equation, ordinary differential equation and integration. 3. To make students learn modelling and solving linear programming problems. Students will be able to model and solve linear programming problems.
Green Computing	2	<ol style="list-style-type: none"> 1. Upon completion of the course, students should be able to: - give an account of the concept green IT, - give an account of environmental perspectives on IT use, - give an account of standards and certifications related to sustainable IT products, - describe green IT in relation to technology
Python Programming	2	<ol style="list-style-type: none"> 1. To explain a basic introduction to object-oriented and procedural programming using Python. Students will be able to understand why Python is a useful scripting language for developers. 2. To acquire knowledge and programming skills in python to solve problems in different domains 3. Students will learn how to design and program Python applications.
Data Structures	2	<ol style="list-style-type: none"> 1. To enable students to understand the representation and use of primitive data types, built in data structures and allocation used in memory. Students will be able to understand the representation and use of primitive data types, built in data structures and allocation used in memory. 2. To enable students to understand the concept of stack, queue, link list, tree, graph, memory allocation, garbage collection and applications of Data Structures. Students will be able to understand the concept of stack, queue, link list, tree, graph, memory allocation, garbage collection and applications of Data Structures



Computer Networks	2	<ol style="list-style-type: none"> 1. To help students acquire basic knowledge about data communications and computer networking. Students will be able to acquire basic knowledge of the taxonomy and terminology related to computer networking and enumerates the layers of OSI model and TCP/IP model. 2. To assist student to learn about the different models and devices related to networks 3. Students will be able to acquire basic knowledge about routing and classification the routing protocols and analysis of assignment of the IP addresses for the given network.
Database Management Systems	2	<ol style="list-style-type: none"> 1. To help students to learn database management system withan emphasis on how to organize, maintain and retrieve information from a DBMS. Students will be able to able todifferentiate Database management system and file processing system. 2. To help students to learn about ER Diagram and their relationships. Students will be able to make an ER Diagram using online softwares 3. To help students learn the concepts of integrity and security. Students will be able to able to understand the concepts of integrity, security and normalization approach.
Applied Mathematics	2	<ol style="list-style-type: none"> 1. Students will be taught the basic concepts of matrices and complex numbers. Student will be able to understand basicconcepts of matrices and complex numbers. 2. Students will be taught to solve linear and higher order differential equations. Student will be able to solve linear and higher order differential equations. 3. Students will be taught the concepts of Laplace and inverse Laplace transform andsolve differential equations by using Laplace and inverseLaplace transform. Student will be able to understand concepts of Laplace and inverse Laplace transform and solve differential equations by using Laplace and inverseLaplace transform. 4. Students will be taught to solve multiple integral and find area and volume of regions by using multiple integration. Student will be able to solvemultiple integral and find area and volume of regions by using multiple integration



Introduction to Embedded Systems	2	<ol style="list-style-type: none"> 1. To acquire knowledge about the basic working of a microcontroller system and its programming using high level languages. Student will be able to understand the difference between the general computing system and the embedded system and recognize its classification. 2. To provide experiential learning to integrate hardware and software for microcontroller application systems. Student will learn to integrate hardware and software for microcontroller application systems.
Computer Oriented Statistical Techniques	2	<ol style="list-style-type: none"> 1. Students will be taught to apply t-test and Chi-Square test for independence and Goodness of fit. Student will be able to analyze ungrouped and grouped data using measures of location and dispersion. 2. Students will be taught to perform test of hypothesis as well as calculate confidence interval for a population parameter for single sample and double sample. Student will be able to perform test of hypothesis as well as calculate confidence interval for a population parameter for single sample and double sample. 3. Students will be taught to analyze ungrouped and grouped data using measures of location and dispersion. Student will be able to apply Student's t-test and Chi-Square test for independence and Goodness of fit. 4. Students will be taught to compute and interpret results of bivariate and multivariate regression and correlation analysis for forecasting. Student will be able to compute and interpret results of bivariate and multivariate regression and correlation analysis for forecasting.



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Software Engineering	2	<ol style="list-style-type: none"> 1. Students will be provided with the knowledge of basic Software engineering methods and practices, and their appropriate application. Student will be able to understand the different process models and project management concepts. 2. Students will be taught software engineering layered technology and Process framework. Student will be able to develop skills for cost estimation for software development and understand the software risks 3. Students will be given a general understanding of software process models such as the waterfall and evolutionary models. Student will be able to enhance teamwork ability in project scheduling and apply the concepts of software quality assurance. 4. To make the students understand software requirements and the SRS documents. Student will be able to make a SRS for a real time project.
Computer Graphics and Animation	2	<ol style="list-style-type: none"> 1. To make students learn the use of components of graphics system. Student will be able to learn basic concepts used in computer graphics. 2. To make students learn to convert the basic geometrical primitives and transform the shapes to fit them as per the picture definition. Student will be able to implement various algorithms to scan, convert the basic geometrical primitives, transformations, Area filling, clipping. 3. To make students comprehend and analyze the fundamentals of animation Student will be able to describe the importance of viewing and projections in 2D and 3D and also to define the fundamentals of animation, virtual reality and its related technologies.

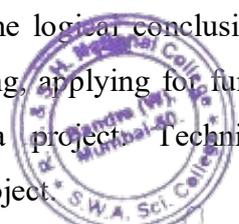


Core java	2	<ol style="list-style-type: none"> 1. To provide knowledge about basic Java language syntax and semantics to write Java programs. Student will be able to understand how to design, implement, test, debug, and document programs using basic Java language syntax and semantics. 2. To assist students to understand the fundamentals of object-oriented programming in Java to design GUI applications Student will be able to implement object-oriented programming concepts effectively. 3. To teach how to design a graphical user interface (GUI) using applets and AWT in Java. Student will be able to demonstrate how to achieve reusability using inheritance, interfaces and packages and describes faster application development can be achieved
Software Project Management	2	<ol style="list-style-type: none"> 1. Students will be able to learn different techniques of choosing Methodologies & Technologies, process models to manage and complete software project successfully. 2. They will be able to identify issues that could lead to project success or failure. Students will also get acquainted with concept of resource management, project manager responsibilities, team building & risk Management. 3. Tools & techniques for project estimating & scheduling will be presented through this course.
Internet of Things	2	<ol style="list-style-type: none"> 1. Students will be explored to the interconnection and integration of the physical world and the cyber space. They are also able to design & develop IOT devices. Networks . Able to understand building blocks of internet of Things and characteristics.
Advanced Web Programming	2	<ol style="list-style-type: none"> 1. A course that takes the principles learned in .net and applies them to the environment of the web. This course covers topics ranging from programming a basic, web-based shopping cart to integrating the application to a back-end database. 2. Topics covered in this course will include securing a web application, validating user input, managing web session state, using master template pages and themes for site consistency web application data source connections and more.



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Artificial Intelligence	2	1. AI is an introductory course in Artificial Intelligence. The goal isto acquire knowledge on intelligent systems and agents, formalization of knowledge, reasoning with and without uncertainty, machine learning and applications at a basic level.
Enterprise Java	2	1. Enterprise Java is the use of Java for application development in enterprise-scale software, and merges a collection of APIs and application servers that implement those APIs. Enterprise Java also includes related technologies, such as the Spring Framework.
Project Dissertation	2	1. It provides complete guidance & support of developing software project. 2. It actually helps us to create document before implementation of software project.
Software Quality Assurance	2	1. Establish organizational procedures and standards for quality. 2. Select procedures and standards for a particular project. 3. Ensure quality procedures and standards are followed by the software development team. Quality Management should be independent from project management.
Security in Computing	2	1. An ability to apply knowledge of computing and mathematics appropriate to the discipline. 2. An ability to identify, formulate, and develop solutions to computational challenges. 3. An ability to design, implement, and evaluate a computational system to meet desired needs within realistic constraints.
Cyber Laws	2	1. To regulate criminal activities in cyberspace. 2. It touches almost all aspects of transactions and activities on and concerning the Internet, the World Wide Web and Cyberspace.
Project Implementation	2	1. Project implementation (or project execution) is the phase where visions and plans become reality. This is the logical conclusion, after evaluating, deciding, visioning, planning, applying for funds and finding the financial resources of a project. Technical implementation is one part of executing a project.



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<p>Geographic Information Systems</p>	<p>2</p>	<ol style="list-style-type: none"> 1. GIS provides the capability to relate previously unrelated information, through the use of location as the "key index variable". 2. Locations and extents that are found in the Earth's <u>spacetime</u>, are able to be recorded through the date and time of occurrence, along with x, y, and z <u>coordinates</u>; representing, <u>longitude</u> (x), <u>latitude</u> (y), and <u>elevation</u> (z). 3. All Earth-based, spatial-temporal, location and extent references, should be relatable to one another, and ultimately, to a "real" physical location or extent. This key characteristic of GIS, has begun to open new avenues of scientific inquiry and studies.
<p>Business Intelligence</p>	<p>2</p>	<ol style="list-style-type: none"> 1. Business intelligence (BI) comprises the strategies and technologies used by enterprises for the data analysis and management of business information. 2. Common functions of business intelligence technologies include reporting, online analytical processing, analytics, dashboard development, data mining, process mining, complex event processing, business performance management, benchmarking, text mining, predictive analytics, and prescriptive analytics. BI technologies can handle large amounts of structured and sometimes unstructured data to help identify, develop, and otherwise create new strategic business opportunities. They aim to allow for the easy interpretation of these big data.



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