



YSPM's, Yashoda Technical Campus

Metric No- 2.6.1

Vision & Mission statement of campus





YSPM's

YASHODA TECHNICAL CAMPUS

VISION

Yashoda Technical Campus aspires to be a role model for institutional excellence and to emerge as a Leader in Technical & Management Education and Research by Providing value based Quality education with World class infrastructure and strengthening strategic linkage with Industry, Premier Institutions and thereby fostering excellence in teaching, research and community service to meet educational, social and economic needs of the region and the nation to create human society.

MISSION

- To Provide opportunities to students and faculty to acquire higher qualification and experience with continuous learning opportunities
- To impart quality education by implementing state-of-the-art teaching learning methods to enrich the academic competency, credibility and integrity of the students.
- To empower the students with current knowledge, skills and right attitude in order to meet the challenges of future & develop competence towards serving the ever changing needs of Industry and Society.
- To create and maintain a vibrant environment to promote excellence in the research and extension activities.

GOALS

- Confer quality based education.
- To pace up with latest trends in technology.
- Application of technical knowledge and research activities for the benefit of society.
- To arrange expert lectures by eminent persons from academics and industry.
- Inculcate social and human values to become responsible citizen.
- Establish Engineering, Pharmacy and management with state of the infrastructure.
- Arrange different programs for overall development of students.

OBJECTIVE POLICY

- To facilitate students with state of the art infrastructure learning environment
- To develop moral, ethical and social values in students.
- To impart quality education through well qualified faculty and eminent personalities.
- Conduct faculty development and research based programs.
- To impart skills to develop entrepreneurs.



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PO's, PEO's, PSO's




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PO's, PSO's and PEO's of the MCA Program Offered by the University

PO's.

PO1. Computational Knowledge: Understand and apply mathematical foundation, computing and domain knowledge for the conceptualization of computing models from defined problems.

PO2. Problem Analysis: Ability to identify, critically analyze and formulate complex computing problems using fundamentals of computer science and application domains.

PO3. Design / Development of Solutions: Ability to transform complex business scenarios and contemporary issues into problems, investigate, understand and propose integrated solutions using emerging technologies.

PO4. Conduct Investigations of Complex Computing Problems: Ability to devise and conduct experiments, interpret data and provide well informed conclusions.

PO5. Modern Tool Usage: Ability to select modern computing tools, skills and techniques necessary for innovative software solutions

PO6. Professional Ethics: Ability to apply and commit professional ethics and cyber regulations in a global economic environment.

PO7. Life-long Learning: Recognize the need for and develop the ability to engage in continuous learning as a Computing professional.

PO8. Project Management and Finance: Ability to understand, management and computing principles with computing knowledge to manage projects in multidisciplinary environments.

PO9. Communication Efficacy: Communicate effectively with the computing community as well as society by being able to comprehend effective documentations and presentations.

PO10. Societal & Environmental Concern: Ability to recognize economical, environmental, social, health, legal, ethical issues involved in the use of computer technology and other consequential responsibilities relevant to professional practice.

PO11. Individual & Team Work: Ability to work as a member or leader in diverse teams in multidisciplinary environment.



PO12. Innovation and Entrepreneurship: Identify opportunities, entrepreneurship vision and use of innovative ideas to create value and wealth for the betterment of the individual and society.

PEO's

| | | |
|----------------|--|---|
| PEO I | Technical Expertise | Implement fundamental domain knowledge of core courses for developing effective computing solutions by incorporating creativity and logical reasoning. |
| PEO II | Successful Career | Deliver professional services with updated technologies in Computer application based career. |
| PEO III | Interdisciplinary and Life Long Learning | Develop leadership skills and incorporate ethics, team work with effective communication & time management in the profession. Undergo higher studies, certifications and technology research as per market needs. |

PSO's

Program Specific Outcomes (PSO's)

PSO 1. Ability to pursue careers in IT industry/ consultancy/ research and development, teaching and allied areas related to computer applications.

PSO 2. Comprehend, explore and build up computer programs in the areas allied to Algorithms, System Software, Multimedia, Web Design and Big Data Analytics for efficient design of computer-based systems of varying complexity.



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Program Outcomes

Pharmacy Graduate will be able to –

PO 1. Pharmacy Knowledge: Possess knowledge and comprehension of the core and basic knowledge associated with the profession of pharmacy, including biomedical sciences; pharmaceutical sciences; behavioral, social, and administrative pharmacy sciences; and manufacturing practices.

PO 2. Planning Abilities: Demonstrate effective planning abilities including time management, resource management, delegation skills and organizational skills. Develop and implement plans and organize work to meet deadlines.

PO3.Problem analysis: Utilize the principles of scientific enquiry, thinking analytically, clearly and critically, while solving problems and making decisions during daily practice. Find, analyze, evaluate and apply information systematically and shall make defensible decisions.

PO4.Modern tool usage: Learn, select, and apply appropriate methods and procedures, resources, and modern pharmacy-related computing tools with an understanding of the limitations.

PO5.Leadership skills: Understand and consider the human reaction to change, motivation issues, leadership and team-building when planning changes required for fulfillment of practice, professional and societal responsibilities. Assume participatory roles as responsible citizens or leadership roles when appropriate to facilitate improvement in health and well-being.

PO6. Professional Identity: Understand, analyze and communicate the value of their professional roles in society (e.g. health care professionals, promoters of health, educators, managers, employers, employees).

PO7. Pharmaceutical Ethics: Honour personal values and apply ethical principles in professional and social contexts. Demonstrate behavior that recognizes cultural and personal variability in values, communication and lifestyles. Use ethical frameworks; apply ethical principles while making decisions and take responsibility for the outcomes associated with the decisions.

PO8. Communication: Communicate effectively with the pharmacy community and with society at large, such as, being able to comprehend and write effective reports, make effective presentations and documentation, and give and receive clear instructions.

PO9. The Pharmacist and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety and legal issues and the consequent responsibilities relevant to the professional pharmacy practice.

PO10.Environment and sustainability: Understand the impact of the professional pharmacy solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO11. Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change. Self-assess and use feedback effectively from others to identify learning needs and to satisfy these needs on an ongoing basis.



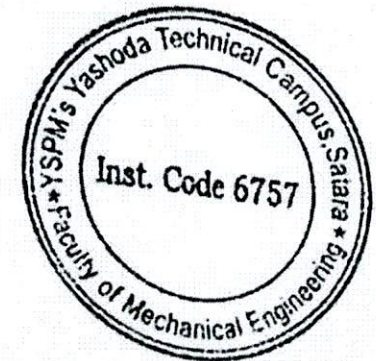
Program Outcomes

Engineering Graduate will be able to –

- PO 1. **Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- PO 2. **Problem analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- PO3. **Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specific needs with appropriate consideration for the public health and safety, and the cultural, social, and environmental considerations
- PO4. **Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- PO5. **Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
- PO6. **The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice
- PO7. **Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
- PO8. **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- PO9. **Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- PO10. **Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give
- PO11. **Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
- PO12. **Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.



| PSOs | |
|------|---|
| 1 | Make the students employable in engineering industries. |
| 2 | Motivate the students for higher studies and research. |



| Pos | |
|------------|---|
| PO1 | Apply Knowledge of Management Theories and Practices to Solve Business Problems |
| PO2 | Foster Analytical and Critical Thinking Abilities for Data Based Decision Making |
| PO3 | Ability to Understand Analyses and Communicate Global, Economic, Legal and Ethical Aspects of Business. |
| PO4 | Ability to Develop Value Based Leadership Abilities |
| PO5 | Ability to Lead Themselves and Others in the Achievement of Organizational Goals, Contributing Effectively to a Team Environment. |
| PO6 | Develop Skill on Analyzing Business Data Application and Of Relevant Analysis and Problem Solving |
| PO7 | Identify Business Opportunities And Develop Effective Oral Communication Especially In Business Applications. |




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CO-PO Mapping



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NAAC- B⁺

Name of the course: HAP-I

Semester: I

YashodaShikshanPrasarakMandal's
Yashoda Technical Campus,

Faculty of Pharmacy Wadhe, NH-4, Satara – 41501

Course outcomes

Course Code: BP101T

Class: I B.Pharm

After completion of course students will be able to

| CO | Course Outcomes |
|-----------|---|
| BP101TC01 | Explain gross morphology, anatomy & physiology of various organs & systems of human body their structural organization, life processes, homeostasis, anatomical terminologies and also cellular & tissue level of organization. |
| BP101TC02 | Analyze the importance of integumentary and skeletal system along with their structure & function and also skeletal muscle organization, muscle contraction, neuromuscular junction and joints. |
| BP101TC03 | Appraise the importance of lymphatic & reticulo endothelial system along with body fluids, hemopoiesis, hematology & blood group systems. |
| BP101TC04 | Understand anatomy & physiology of peripheral nervous system, origin and function of spinal & cranial nerves and also special senses and their disorders. |
| BP101TC05 | Explain components, structure & function of cardiovascular system and also conduction system of heart, cardiac cycle, electrocardiogram & disorders of heart. |

CO-PO mapping

| | PO1 | PO 2 | PO 3 | PO 4 | PO 5 | PO 6 | PO 7 | PO 8 | PO 9 | PO 10 | PO 11 |
|------------------------|-----|------|---------|------|------|------|------|------|------|-------|-------|
| Code | | | | | | | | | | | |
| BP101TC01 | 3 | - | - | 2 | - | 2 | - | 2 | 1 | - | 3 |
| BP101TC02 | 3 | - | - | 2 | - | 1 | - | 1 | | - | 3 |
| BP101TC03 | 3 | - | 2 | 1 | - | 2 | - | 1 | 1 | - | 3 |
| BP101TC04 | 3 | - | 1 | 1 | - | 2 | - | 1 | 1 | - | 3 |
| BP101TC05 | 3 | - | 2 | 2 | 1 | 2 | - | 2 | 1 | - | 3 |
| Average | 3 | - | 1.66667 | 1.6 | 1 | 1.8 | - | 1.4 | 1 | - | 3 |
| Average Roundup | 3 | - | 2 | 2 | 1 | 2 | - | 1 | 1 | - | 3 |

Correlation level 1,2,3 as defined below

1- Slight 2- Moderate 3 High

Kadamb
Course co-ordinator
Ms. P. B. Kadamb

A.P. Jadhav
Mrs. A.P. Jadhav



A.P. Jadhav
NBA co-ordinator
Yashoda Technical Campus
Satara



(Signature)
HOD



YashodaShikshanPrasarakMandal's
Yashoda Technical Campus,
 Faculty of Pharmacy Wadhe, NH-4, Satara – 41501
Co-PO mapping Justification

Name of the course: HAP-I

Course Code: BP101T

Semester: I

Class: I B.Pharm

| CO No. | PO's Mapped | Level | Justification |
|-----------|-------------|-------|--|
| BP101TCO1 | PO1 | 3 | Strongly mapped because student can gain pharmacy knowledge from anatomy & physiology, cellular & tissue level organization, basic life processes. |
| | PO4 | 2 | Moderately mapped because there may be moderate usage of modern tools while studying anatomy & physiology of various organs. |
| | PO6 | 2 | Moderately mapped because professional identity reflects from student as a pharmacist after gaining knowledge of anatomy & physiology, cellular & tissue level organization, basic life processes. |
| | PO8 | 2 | Moderately mapped because after gaining knowledge of anatomy & physiology of various organs student can communicate effectively by using specific terminologies. |
| | PO9 | 1 | Slightly mapped may help to assess health issue because of homeostasis disruption. |
| | PO11 | 3 | Strongly mapped because information is useful lifelong for students. |
| BP101TCO2 | PO1 | 3 | Strongly mapped because student can gain pharmacy knowledge from studying various systems of body & joints. |
| | PO4 | 2 | Moderately mapped because there may be moderate usage of modern tools while studying integumentary and skeletal system |
| | PO6 | 1 | Slightly mapped because professional identity reflects from student as a pharmacist after gaining knowledge of various systems of body & joints. |
| | PO8 | 1 | Slightly mapped because after gaining knowledge of integumentary and skeletal system student can communicate effectively by using specific terminologies. |
| | PO11 | 3 | Strongly mapped because information is useful lifelong for students. |
| BP101TCO3 | PO1 | 3 | Strongly mapped because student can gain pharmacy knowledge from studying body fluids & blood and lymphatic system |
| | PO3 | 2 | Moderately mapped because student will be able to analyse various problems related to blood disorders, blood transfusion etc. |



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| PO4 | 1 | Moderately mapped because there may be moderate usage of modern tools while studying lymphatic & reticulo endothelial system along with body fluids |
| PO6 | 2 | Moderately mapped because professional identity reflects from student as a pharmacist after gaining knowledge of body fluids & blood and lymphatic system. |
| PO8 | 1 | Slightly mapped because after gaining knowledge of lymphatic & reticulo endothelial system along with body fluids student can communicate effectively by using specific terminologies. |
| PO9 | 1 | Slightly mapped because knowledge gained may help to assess health issue related to body fluids & blood and lymphatic system. |
| PO11 | 3 | Strongly mapped because information is useful lifelong for students. |

BP101TCO4

| | | |
|------|---|---|
| PO1 | 3 | Strongly mapped because student can gain pharmacy knowledge from studying peripheral nervous system & special senses. |
| PO3 | 1 | Slightly mapped because student will be able to analyse various problems like disorders of sense organs. |
| PO4 | 1 | Slightly mapped because there may be moderate usage of modern tools while studying anatomy & physiology of peripheral nervous system and also special senses |
| PO6 | 2 | Moderately mapped because professional identity reflects from student as a pharmacist after gaining knowledge of peripheral nervous system & special senses. |
| PO8 | 1 | Slightly mapped because after gaining knowledge of anatomy & physiology of peripheral nervous system and also special senses student can communicate effectively by using specific terminologies. |
| PO9 | 1 | Slightly mapped because knowledge gained may help to assess health issue related to peripheral nervous system & special senses. |
| PO11 | 3 | Strongly mapped because information is useful lifelong for students. |

BP101TCO5

| | | |
|-----|---|---|
| PO1 | 3 | Strongly mapped because student can gain pharmacy knowledge from studying cardiovascular system. |
| PO3 | 2 | Moderately mapped because student will be able to analyse various problems like disorders of cardiovascular system. |
| PO4 | 2 | Moderately mapped because there may be moderate usage of modern tools while studying cardiovascular system |
| PO5 | 1 | Slightly mapped because gained knowledge may help to develop leadership skills e.g. take care of family member having BP and check pulse rate of patient. |
| PO6 | 2 | Moderately mapped because professional identity reflects from student as a pharmacist after gaining knowledge of cardiovascular system. |
| PO8 | 2 | Moderately mapped because after gaining knowledge of cardiovascular system student can communicate effectively by using specific terminologies. |
| PO9 | 1 | Slightly mapped because knowledge gained may help to assess health issue related to cardiovascular system. |



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| | PO11 | 3 | Strongly mapped because information is useful lifelong for students. |
|--|------|---|--|

Kadam

Course co-ordinator

Mrs. P. B. Kadam Mrs. AP Jadhav

AA

NBA co-ordinator

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HOD





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YashodaShikshanPrasarakMandal's
Yashoda Technical Campus,
 Faculty of Pharmacy Wadhe, NH-4, Satara – 41501

Course outcomes

Name of the course: HAP-II

Course Code: BP201T

Semester: II

Class: I B.Pharm

After completion of course students will be able to

| CO | Course Outcomes |
|-----------|--|
| BP201TC01 | Discuss the anatomy and physiology of the nervous system and pathophysiology of diseases affecting the nervous system. |
| BP201TC02 | Explain anatomy and physiology of Digestive system and pathophysiology of related diseases. Formation and role of energetic. |
| BP201TC03 | Explain anatomy and physiology of respiratory system , urinary system and pathophysiology of related diseases. |
| BP201TC04 | Describe the anatomy and physiology of the endocrine glands and pathophysiology of of hypo and hyper secretion of above endocrine glands and related diseases. |
| BP201TC05 | Explain anatomy and physiology of human reproductive system and introduction to genetics. |

CO-PO mapping

| | PO1 | PO 2 | PO 3 | PO 4 | PO 5 | PO 6 | PO 7 | PO 8 | PO 9 | PO 10 | PO 11 |
|------------------------|-----|------|------|------|------|------|------|------|------|-------|-------|
| Code | | | | | | | | | | | |
| BP201TC01 | 3 | - | - | - | - | 2 | - | 3 | 2 | - | 2 |
| BP201TC02 | 3 | - | - | - | - | 2 | - | 3 | 2 | - | 2 |
| BP201TC03 | 3 | - | - | - | - | 2 | - | 3 | 2 | - | 2 |
| BP201TC04 | 3 | - | - | - | - | 2 | - | 3 | 2 | - | 2 |
| BP201TC05 | 3 | - | - | - | - | 2 | - | 3 | 2 | - | 2 |
| Average | 3 | - | - | - | - | 2 | - | 3 | 2 | - | 2 |
| Average Roundup | 3 | - | - | - | - | 2 | - | 3 | 2 | - | 2 |

Correlation level 1,2,3 as defined below

1- Slight 2- Moderate 3 High

Kadam
 Course co-ordinator
 Ms. P. B. Kadam



[Signature]
 NBA co-ordinator
 DIRECTOR
 Yashoda Technical Campus
 Satara



[Signature]
 HOD



YashodaShikshanPrasarakMandal's
Yashoda Technical Campus,
 Faculty of Pharmacy Wadhe, NH-4, Satara – 41501
Co-PO mapping Justification

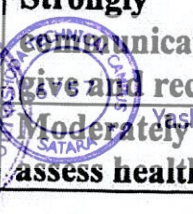
Name of the course: HAP-II

Course Code: BP201T

Semester: II

Class: I B.Pharm

| CO No. | PO's Mapped | Level | Justification |
|-----------|-------------|-------|--|
| BP201TCO1 | PO1 | 3 | Strongly mapped because student can gain pharmacy knowledge from studying nervous system. |
| | PO6 | 2 | Moderately mapped because professional identity reflects from student as a pharmacist after gaining knowledge of nervous system. |
| | PO8 | 3 | Strongly mapped because students will be able to communicate effectively by using specific terminologies and give and receive clear instructions, patient counseling |
| | PO9 | 2 | Moderately mapped because knowledge gained may help to assess health issue related to nervous system. |
| | PO11 | 2 | Moderately mapped because information is useful lifelong for students. |
| BP201TCO2 | PO1 | 3 | Strongly mapped because student can gain pharmacy knowledge from studying digestive system & energetic. |
| | PO6 | 2 | Moderately mapped because professional identity reflects from student as a pharmacist after gaining knowledge of digestive system & energetic. |
| | PO8 | 3 | Strongly mapped because students will be able to communicate effectively by using specific terminologies and give and receive clear instructions, patient counseling . |
| | PO9 | 2 | Moderately mapped because knowledge gained may help to assess health issue related to digestive system & energetic. |
| | PO11 | 2 | Moderately mapped because information is useful lifelong for students. |
| BP201TCO3 | PO1 | 3 | Strongly mapped because student can gain pharmacy knowledge from studying respiratory & urinary system. |
| | PO6 | 2 | Moderately mapped because professional identity reflects from student as a pharmacist after gaining knowledge of respiratory & urinary system. |
| | PO8 | 3 | Strongly mapped because students will be able to communicate effectively by using specific terminologies and give and receive clear instructions, patient counseling . |
| | PO9 | 2 | Moderately mapped because knowledge gained may help to assess health issue related to respiratory & urinary system. |



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| BP201TCO4 | PO11 | 2 | Moderately mapped because information is useful lifelong for students. |
| | PO1 | 3 | Strongly mapped because student can gain pharmacy knowledge from studying endocrine system. |
| | PO6 | 2 | Moderately mapped because professional identity reflects from student as a pharmacist after gaining knowledge of endocrine system. |
| | PO8 | 3 | Strongly mapped because students will be able to communicate effectively by using specific terminologies and give and receive clear instructions, patient counseling . |
| | PO9 | 2 | Moderately mapped because knowledge gained may help to assess health issue related to endocrine system. |
| | PO11 | 2 | Moderately mapped because information is useful lifelong for students. |
| BP201TCO5 | PO1 | 3 | Strongly mapped because student can gain pharmacy knowledge from studying reproductive system& genetics. |
| | PO6 | 2 | Moderately mapped because professional identity reflects from student as a pharmacist after gaining knowledge of reproductive system& genetics. |
| | PO8 | 3 | Strongly mapped because students will be able to communicate effectively by using specific terminologies and give and receive clear instructions, patient counseling . |
| | PO9 | 2 | Moderately mapped because knowledge gained may help to assess health issue related to reproductive system& genetics. |
| | PO11 | 2 | Moderately mapped because information is useful lifelong for students. |

Kadam
 Course co-ordinator
 P.B. Kadam

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 NBA co-ordinator

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NAAC- B⁺

Name of the course: POC-II

Semester: III

Yashoda Shikshan Prasarak Mandal's
Yashoda Technical Campus,
 Faculty of Pharmacy Wadhe, NH-4, Satara – 41501

Course outcomes

Course Code: BP301T

Class: S.Y.B.Pharm

After completion of course students will be able to

| CO | Course Outcomes |
|-----------|---|
| BP301TC01 | Explain general methods of preparations, structures, reactions & reactivity of organic compounds |
| BP301TC02 | Describe structure, mechanisms and orientation reactions, uses of phenols, aromatic amines & aromatic acids |
| BP301TC03 | Summarize the chemistry & quality determination of fats & oils |
| BP301TC04 | Understand the synthesis, reactions & uses of polynuclear hydrocarbons |
| BP301TC05 | Integrate theories & limitations of stabilities of cyclo alkanes, reactions of cyclo alkanes |

CO-PO mapping

| | PO1 | PO 2 | PO 3 | PO 4 | PO 5 | PO 6 | PO 7 | PO 8 | PO 9 | PO 10 | PO 11 |
|------------------------|-----|------|------|------|------|------|------|------|------|-------|-------|
| Code | | | | | | | | | | | |
| BP301TC01 | 3 | 2 | 2 | 2 | - | 2 | 1 | 1 | 2 | 2 | 2 |
| BP301TC02 | 3 | 2 | 2 | 2 | - | 2 | 1 | 1 | 2 | 2 | 2 |
| BP301TC03 | 3 | 3 | 3 | 2 | 1 | 2 | 2 | 1 | 3 | 1 | 2 |
| BP301TC04 | 3 | 2 | 3 | 2 | - | 2 | 1 | 1 | 2 | 2 | 2 |
| BP301TC05 | 3 | 2 | 2 | 2 | - | 2 | 2 | 2 | 2 | 2 | 2 |
| Average | 3 | 2.2 | 2.4 | 2 | 1 | 2 | 1.4 | 1.2 | 2.2 | 1.8 | 2 |
| Average Roundup | 3 | 2 | 2 | 2 | 1 | 2 | 1 | 1 | 2 | 2 | 2 |

Correlation level 1,2,3 as defined below

1- Slight 2- Moderate 3 High

Ravak
 Course co-ordinator



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 NBA co-ordinator
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Yashoda Shikshan Prasarak Mandal's
Yashoda Technical Campus,
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CO-PO mapping Justification

Name of the course: Medicinal Chemistry I

Course Code: BP402T

Semester: IV

Class: S.Y.B.Pharm

| CO No. | PO's Mapped | Level | Justification |
|-----------|-------------|-------|--|
| BP301TCO1 | PO1 | 3 | Strongly mapped to pharmacy knowledge as the students will explain general methods of preparations, structures, reactions & reactivity of organic compounds . |
| | PO2 | 2 | Moderately mapped to planning abilities as the students will explain general methods of preparations, structures, reactions & reactivity of organic compounds . |
| | PO3 | 2 | Moderately mapped to problem analysis as the students will explain general methods of preparations, structures, reactions & reactivity of organic compounds . |
| | PO4 | 2 | Moderately mapped to modern tool usage as the students will explain general methods of preparations, structures, reactions & reactivity of organic compounds . |
| | PO6 | 2 | Moderately mapped to professional identity as the students will explain general methods of preparations, structures, reactions & reactivity of organic compounds . |
| | PO7 | 1 | Slightly mapped to communication as the students will explain general methods of preparations, structures, reactions & reactivity of organic compounds |
| | PO8 | 1 | Slightly mapped to communication as the students will explain general methods of preparations, structures, reactions & reactivity of organic compounds |
| | PO9 | 2 | Moderately mapped to pharmacist and society as the students will explain general methods of preparations, structures, reactions & reactivity of organic compounds |
| | PO10 | 2 | Slightly mapped to environment and sustainability as the students will explain general methods of preparations, structures, reactions & reactivity of organic compounds |
| | PO11 | 2 | Moderately mapped to life-long learning as the students will explain general methods of preparations, structures, reactions & reactivity of organic compounds |
| | BP301TCO2 | PO1 | |
| PO2 | | 2 | Moderately mapped to planning abilities as the students will describe structure, mechanisms and orientation reactions, uses of phenols, aromatic amines & aromatic acids |

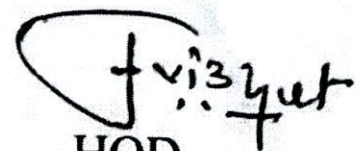
| | | | |
|-----------|------|---|---|
| | PO3 | 2 | Moderately mapped to problem analysis as the students will describe structure, mechanisms and orientation reactions, uses of phenols,aromatic amines & aromatic acids |
| | PO4 | 2 | Moderately mapped to modern tool usage as the students will describe structure, mechanisms and orientation reactions, uses of phenols,aromatic amines & aromatic acids |
| | PO6 | 2 | Moderately mapped to professional identity as the students will describe structure, mechanisms and orientation reactions, uses of phenols,aromatic amines & aromatic acids |
| | PO7 | 1 | Slightly mapped to pharmaceutical ethics as the students will describe structure, mechanisms and orientation reactions, uses of phenols,aromatic amines & aromatic acids |
| | PO8 | 1 | Slightly mapped to communication as the students will acquire th describe structure, mechanisms and orientation reactions, uses of phenols,aromatic amines & aromatic acids |
| | PO9 | 2 | Moderately mapped to pharmacist and society as the students will describe structure, mechanisms and orientation reactions, uses of phenols,aromatic amines & aromatic acids |
| | PO10 | 2 | Moderately mapped to environment and sustainability as the students will describe structure, mechanisms and orientation reactions, uses of phenols,aromatic amines & aromatic acids |
| | PO11 | 2 | Moderately mapped to life-long learning as the students will describe structure, mechanisms and orientation reactions, uses of phenols,aromatic amines & aromatic acids |
| BP301TCO3 | PO1 | 3 | Strongly mapped to pharmacy knowledge as the students will summarize the chemistry & quality determination of fats & oils |
| | PO2 | 3 | Strongly mapped to planning abilities as the students will summarize the chemistry & quality determination of fats & oils |
| | PO3 | 3 | Strongly mapped to problem analysis as the students will summarize the chemistry & quality determination of fats & oils . |
| | PO4 | 2 | Moderately mapped to modern tool usage as the students will summarize the chemistry & quality determination of fats & oils |
| | PO5 | 1 | Slightly mapped to communication as the students summarize the chemistry & quality determination of fats & oils |
| | PO6 | 2 | Moderately mapped to professional identity as the students will summarize the chemistry & quality determination of fats & oils |
| | PO7 | 2 | Moderately mapped to pharmaceutical ethics as the students will summarize the chemistry & quality determination of fats & oils |
| | PO8 | 1 | Slightly mapped to communication as the students will summarize the chemistry & quality determination of fats & oils |
| | PO9 | 3 | Strongly mapped to pharmacist and society as the students will summarize the chemistry & quality determination of fats & oils |
| | PO10 | 1 | Slightly mapped to environment and sustainability as the students will summarize the chemistry & quality determination of fats & oils |
| | PO11 | 2 | Moderately mapped to life-long learning as the students will learn the chemistry & quality determination of fats & oils |
| BP301TCO4 | PO1 | 3 | Strongly mapped to pharmacy knowledge as the students will understand the synthesis, reactions & uses of polynuclear hydrocarbons |

| | | | |
|-----------|------|---|---|
| | PO2 | 2 | Moderately mapped to planning abilities as the students will understand the synthesis, reactions & uses of polynuclear hydrocarbons |
| | PO3 | 3 | Strongly mapped to problem analysis as the students will understand the synthesis, reactions & uses of polynuclear hydrocarbons |
| | PO4 | 2 | Moderately mapped to modern tool usage as the students will understand the synthesis, reactions & uses of polynuclear hydrocarbons |
| | PO6 | 2 | Moderately mapped to professional identity as the students will understand the synthesis, reactions & uses of polynuclear hydrocarbons |
| | PO7 | 1 | Slightly mapped to communication as the students will understand the synthesis, reactions & uses of polynuclear hydrocarbons |
| | PO8 | 1 | Slightly mapped to communication as the students will understand the synthesis, reactions & uses of polynuclear hydrocarbons & communicate it. |
| | PO9 | 2 | Moderately mapped to pharmacist and society as the students will understand the synthesis, reactions & uses of polynuclear hydrocarbons |
| | PO10 | 2 | Moderately mapped to environment and sustainability as the students will understand the synthesis, reactions & uses of polynuclear hydrocarbons |
| | PO11 | 2 | Moderately mapped to life-long learning as the students will understand the synthesis, reactions & uses of polynuclear hydrocarbons |
| BP301TC05 | PO1 | 3 | Strongly mapped to pharmacy knowledge as the students will integrate theories & limitations of stabilities of cyclo alkanes, reactions of cyclo alkanes |
| | PO2 | 2 | Moderately mapped to planning abilities as the students will integrate theories & limitations of stabilities of cyclo alkanes, reactions of cyclo alkanes |
| | PO3 | 2 | Slightly mapped to problem analysis as the students will integrate theories & limitations of stabilities of cyclo alkanes, reactions of cyclo alkanes |
| | PO4 | 2 | Moderately mapped to modern tool usage as the students will integrate theories & limitations of stabilities of cyclo alkanes, reactions of cyclo alkanes . |
| | PO6 | 2 | Moderately mapped to professional identity as the students will integrate theories & limitations of stabilities of cyclo alkanes, reactions of cyclo alkanes |
| | PO7 | 2 | Moderately mapped to pharmaceutical ethics as the students will integrate theories & limitations of stabilities of cyclo alkanes, reactions of cyclo alkanes |
| | PO8 | 2 | Slightly mapped to communication as the students will integrate theories & limitations of stabilities of cyclo alkanes, reactions of cyclo alkanes |
| | PO9 | 2 | Moderately mapped to pharmacist and society as the students will integrate theories & limitations of stabilities of cyclo alkanes, reactions of cyclo alkanes |
| | | | |

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|--|------|---|---|
| | PO10 | 2 | Slightly mapped to environment and sustainability as the students will integrate theories & limitations of stabilities of cyclo alkanes, reactions of cyclo alkanes |
| | PO11 | 2 | Moderately mapped to life-long learning as the students will integrate theories & limitations of stabilities of cyclo alkanes, reactions of cyclo alkanes |


Course co-ordinator


NBA co-ordinator


HOD





NAAC- B⁺

Yashoda Shikshan Prasarak Mandal's
Yashoda Technical Campus,
Faculty of Pharmacy Wadhe, NH-4, Satara – 41501

Course outcomes (2022-23)

Name of the course: Pharmaceutical Organic Chemistry-III Course Code: BP401T

Semester: IV

Class: S. Y. B. Pharm

After completion of course students will be able to

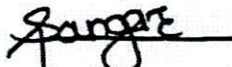
| CO | Course Outcomes |
|-----------|---|
| BP401TC01 | Summarise the stereo chemical aspects of optical isomer |
| BP401TC02 | Explain the stereo chemical aspects of geometric and conformational isomer |
| BP401TC03 | Elaborate five membered heterocyclic compound with structure, synthesis, chemical reactions and medicinal uses. |
| BP401TC04 | Elaborate six membered heterocyclic compound with structure, synthesis, chemical reactions and medicinal uses. |
| BP401TC05 | Describe detailed mechanism of common naming reactions |

CO-PO mapping

| | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 |
|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|
| Code | | | | | | | | | | | |
| BP401TC01 | 3 | 1 | 2 | 3 | 1 | 1 | 2 | 1 | 1 | 2 | 3 |
| BP401TC02 | 3 | 1 | 2 | 3 | 1 | 1 | 2 | 1 | 1 | 2 | 3 |
| BP401TC03 | 3 | 2 | 3 | 2 | 1 | 1 | 2 | 2 | 2 | 2 | 3 |
| BP401TC04 | 3 | 2 | 3 | 2 | 1 | 1 | 2 | 2 | 2 | 1 | 3 |
| BP401TC05 | 3 | 2 | 3 | 3 | 1 | 2 | 3 | 3 | 2 | 2 | 3 |
| Average | 3 | 2 | 3 | 3 | 1 | 1 | 2 | 2 | 2 | 2 | 3 |

Correlation level 1,2,3 as defined below

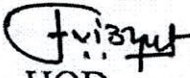
1- Slight 2- Moderate 3 High


Course co-ordinator




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YSPM

NAAC-B⁺

Yashoda Shikshan Prasarak Mandal's
Yashoda Technical Campus,
 Faculty of Pharmacy Wadhe, NH-4, Satara – 41501
CO-PO mapping Justification

Name of the course: Pharmaceutical Organic Chemistry-III

Course Code:BP401T

Semester:IV

Class: S. Y. B.Pharm

| CO No. | PO's Mapped | Level | Justification |
|-----------|-------------|-------|--|
| BP401TC01 | PO1 | 3 | Strongly agree- As it gives Pharmacy Knowledge |
| | PO2 | 1 | Slightly agree- As it inculcate planning ability |
| | PO3 | 2 | Moderately agree- As it develop problem solving skill |
| | PO4 | 3 | Strongly agree- As it emphasis on traditional method & rarely modern |
| | PO5 | 1 | Slightly agree- As it gives leadership roles when appropriate to facilitate improvement in health and well-being |
| | PO6 | 1 | Slightly agree- As it develop professional identity |
| | PO7 | 2 | Moderately agree – As it inculcate professional ethics |
| | PO8 | 1 | Slightly agree- As it communicate the knowledge with community |
| | PO9 | 1 | Slightly agree – As it develop professional identity to serve for society |
| | PO10 | 2 | Moderately agree – As it doesn't provide full aspect regarding Environment and sustainability knowledge |
| | PO11 | 3 | Strongly agree- This learning is for forever |
| BP401TC02 | PO1 | 3 | Strongly agree- As it gives Pharmacy Knowledge |
| | PO2 | 1 | Slightly agree- As it inculcate planning ability |
| | PO3 | 2 | Modertly agree - As it develop problem solving skill |
| | PO4 | 3 | Strongly agree- As it emphasis on traditional method & rarely modern |
| | PO5 | 1 | Slightly agree- As it gives leadership roles when appropriate to facilitate improvement in health and well-being |
| | PO6 | 1 | Slightly agree- As it develop professional identity |
| | PO7 | 2 | Moderately agree- As it inculcate professional ethics |
| | PO8 | 1 | Slightly agree- As it communicate the knowledge with community |
| | PO9 | 1 | Slightly agree- As it develop professional identity to serve for society |
| | PO10 | 2 | Moderately agree- As it doesn't provide full aspect regarding Environment and sustainability knowledge |

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 Satara



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|-----------|------|---|--|
| | PO11 | 3 | Strongly agree- This learning is for forever |
| 3P401TC03 | PO1 | 3 | Strongly agree- As it gives Pharmacy Knowledge |
| | PO2 | 2 | Moderately agree- As it inculcate planning ability |
| | PO3 | 3 | Strongly agree - As it develop problem solving skill |
| | PO4 | 2 | Moderately agree- As it emphasis on traditional method & rarely modern |
| | PO5 | 1 | Slightly agree- As it gives leadership roles when appropriate to facilitate improvement in health and well-being |
| | PO6 | 1 | Slightly agree- As it develop professional identity |
| | PO7 | 2 | Moderately agree- As it inculcate professional ethics |
| | PO8 | 2 | Moderately agree- As it communicate the knowledge with community |
| | PO9 | 2 | Moderately agree- As it develop professional identity to serve for society |
| | PO10 | 2 | Moderately agree- As it doesn't provide full aspect regarding Environment and sustainability knowledge |
| | PO11 | 3 | Strongly agree- This learning is for forever |
| BP401TC04 | PO1 | 3 | Strongly agree- As it gives Pharmacy Knowledge |
| | PO2 | 2 | Moderately agree- As it inculcate planning ability |
| | PO3 | 3 | Strongly agree - As it develop problem solving skill |
| | PO4 | 2 | Moderately agree- As it emphasis on traditional method & rarely modern |
| | PO5 | 1 | Slightly agree- As it gives leadership roles when appropriate to facilitate improvement in health and well-being |
| | PO6 | 1 | Slightly agree- As it develop professional identity |
| | PO7 | 2 | Moderately agree- As it inculcate professional ethics |
| | PO8 | 2 | Moderately agree- As it communicate the knowledge with community |
| | PO9 | 2 | Moderately agree- As it develop professional identity to serve for society |
| | PO10 | 1 | Slightly agree- As it doesn't provide full aspect regarding Environment and sustainability knowledge |
| | PO11 | 3 | Strongly agree- This learning is for forever |
| BP401TC05 | PO1 | 3 | Strongly agree- As it gives Pharmacy Knowledge |
| | PO2 | 2 | Moderately agree- As it inculcate planning ability |
| | PO3 | 3 | Strongly agree - As it develop problem solving skill |
| | PO4 | 3 | Strongly agree- As it emphasis on traditional method & rarely modern |
| | PO5 | 1 | Slightly agree- As it gives leadership roles when appropriate to facilitate improvement in health and well-being |
| | PO6 | 2 | Moderately agree- As it develop professional identity |



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| | | | |
|--|------|---|--|
| | PO7 | 3 | Strongly agree- As it inculcate professional ethics |
| | PO8 | 3 | Strongly agree- As it communicate the knowledge with community |
| | PO9 | 2 | Moderately agree- As it develop professional identity to serve for society |
| | PO10 | 2 | Moderately agree- As it doesn't provide full aspect regarding Environment and sustainability knowledge |
| | PO11 | 3 | Strongly agree- This learning is for forever |

Bhongale

Course co-ordinator

(Ms. P. A. Bhongale)

Jadhav

NBA co-ordinator

(Dr. P. D. Jadhav)

Bhagwat

HOD

(Dr. A. M. Bhagwat)





NAAC- B⁺

Yashoda Shikshan Prasarak Mandal's
Yashoda Technical Campus,
Faculty of Pharmacy Wadhe, NH-4, Satara – 41501

Course outcomes

Name of the course: Medicinal Chemistry-II

Course Code:BP501T

Semester:V

Class: Third Year B.Pharm

After completion of course students will be able to

| CO | Course Outcomes |
|-----------|--|
| BP501TCO1 | Explain physicochemical & pharmacological properties of drugs in class Antihistaminic agents & Anti-neoplastic agents |
| BP501TCO2 | Describe physicochemical & pharmacological properties of drugs in class Anti-angina,Diuretics,Anti-hypertensive Agents |
| BP501TCO3 | Summarize physicochemical & pharmacological properties of drugs in class Anti-arrhythmic Drugs,Anti-hyperlipidemic agents,Coagulant & Anticoagulants & CHF |
| BP501TCO4 | Understand physicochemical & pharmacological properties of drugs acting on Endocrine system |
| BP501TCO5 | Integrate physicochemical & pharmacological properties of drugs in class Antidiabetic agents & Local Anesthetics |

CO-PO mapping

| | PO1 | PO 2 | PO 3 | PO 4 | PO 5 | PO 6 | PO 7 | PO 8 | PO 9 | PO 10 | PO 11 |
|-----------------|-----|------|------|------|------|------|------|------|------|-------|-------|
| Code | | | | | | | | | | | |
| BP501TCO1 | 3 | 2 | 1 | 2 | - | 2 | - | 1 | 2 | 1 | 3 |
| BP501TCO2 | 3 | 2 | 1 | 2 | - | 2 | - | 1 | 2 | 1 | 3 |
| BP501TCO3 | 3 | 2 | 1 | 2 | - | 2 | - | 1 | 2 | 1 | 3 |
| BP501TCO4 | 3 | 2 | 1 | 2 | - | 2 | - | 1 | 2 | 1 | 3 |
| BP501TCO5 | 3 | 2 | 1 | 2 | - | 2 | - | 1 | 2 | 1 | 3 |
| Average | 3 | 2 | 1 | 2 | - | 2 | - | 1 | 2 | 1 | 3 |
| Average Roundup | 3 | 2 | 1 | 2 | - | 2 | - | 1 | 2 | 1 | 3 |

Correlation level 1,2,3 as defined below

1- Slight 2- Moderate 3 High

Course co-ordinator



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NBA co-ordinator



HOD

Name of the course: Medicinal Chemistry-II

Course Code:BP501T

Semester:V

Class: Third Year B.Pharm

| CO No. | PO's Mapped | Level | Justification |
|-----------|-------------|-------|---|
| BP501TCO1 | PO1 | 3 | Strongly agree- It gives Pharmacy Knowledge |
| | PO2 | 2 | Modertly agree - It inculcate planning ability |
| | PO3 | 1 | Slightly agree - It develop problem solving skill |
| | PO4 | 2 | Modertly agree- It emphasis on traditional method & rarely modern |
| | PO6 | 2 | Strongly agree- It develop professional identity |
| | PO8 | 1 | Slightly agree- It slightly help in communication |
| | PO9 | 2 | Modertly agree - It develop professional identity to serve for society |
| | PO10 | 1 | Slightly agree- It doesn't provide full aspect regarding Environment and sustainability knowledge |
| | PO11 | 3 | Strongly agree- This learning is for forever |
| BP501TCO2 | PO1 | 3 | Strongly agree- It gives Pharmacy Knowledge |
| | PO2 | 2 | Modertly agree - It inculcate planning ability |
| | PO3 | 1 | Slightly agree - It develop problem solving skill |
| | PO4 | 2 | Modertly agree- It emphasis on traditional method & rarely modern |
| | PO6 | 2 | Strongly agree- It develop professional identity |
| | PO8 | 1 | Slightly agree- It slightly help in communication |
| | PO9 | 2 | Modertly agree - It develop professional identity to serve for society |
| | PO10 | 1 | Slightly agree- It doesn't provide full aspect regarding Environment and sustainability knowledge |
| | PO11 | 3 | Strongly agree- This learning is for forever |
| BP501TCO3 | PO1 | 3 | Strongly agree- It gives Pharmacy Knowledge |
| | PO2 | 2 | Modertly agree - It inculcate planning ability |
| | PO3 | 1 | Slightly agree - It develop problem solving skill |
| | PO4 | 2 | Modertly agree- It emphasis on traditional method & rarely modern |
| | PO6 | 2 | Strongly agree- It develop professional identity |
| | PO8 | 1 | Slightly agree- It slightly help in communication |
| | PO9 | 2 | Modertly agree - It develop professional identity to serve for society |

| | | | |
|-----------|------|---|---|
| | PO10 | 1 | Slightly agree- It doesn't provide full aspect regarding Environment and sustainability knowledge |
| | PO11 | 3 | Strongly agree- This learning is for forever |
| BP501TCO4 | PO1 | 3 | Strongly agree- It gives Pharmacy Knowledge |
| | PO2 | 2 | Modertly agree - It inculcate planning ability |
| | PO3 | 1 | Slightly agree - It develop problem solving skill |
| | PO4 | 2 | Modertly agree- It emphasis on traditional method & rarely modern |
| | PO6 | 2 | Strongly agree- It develop professional identity |
| | PO8 | 1 | Slightly agree- It slightly help in communication |
| | PO9 | 2 | Modertly agree - It develop professional identity to serve for society |
| | PO10 | 1 | Slightly agree- It doesn't provide full aspect regarding Environment and sustainability knowledge |
| | PO11 | 3 | Strongly agree- This learning is for forever |
| BP501TCO5 | PO1 | 3 | Strongly agree- It gives Pharmacy Knowledge |
| | PO2 | 2 | Modertly agree - It inculcate planning ability |
| | PO3 | 1 | Slightly agree - It develop problem solving skill |
| | PO4 | 2 | Modertly agree- It emphasis on traditional method & rarely modern |
| | PO6 | 2 | Strongly agree- It develop professional identity |
| | PO8 | 1 | Slightly agree- It slightly help in communication |
| | PO9 | 2 | Modertly agree - It develop professional identity to serve for society |
| | PO10 | 1 | Slightly agree- It doesn't provide full aspect regarding Environment and sustainability knowledge |
| | PO11 | 3 | Strongly agree- This learning is for forever |

S Rohan

Course co-ordinator

Abh

NBA co-ordinator

F. V. J. Patil

HOD



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Yashoda Technical Campus
Satara





NAAC- B⁺

Yashoda Shikshan Prasarak Mandal's
Yashoda Technical Campus,
 Faculty of Pharmacy Wadhe, NH-4, Satara – 41501

Course outcomes

Name of the course: Medicinal Chemistry III

Course Code: BP601T

Semester: VI

Class: T.Y.B.Pharm

After completion of course students will be able to

| CO | Course Outcomes |
|-----------|--|
| BP601TC01 | Explain physicochemical & pharmacological properties of drugs in class Antibiotics. |
| BP601TC02 | Describe physicochemical & pharmacological properties of drugs in class Antimalarial & concept of prodrugs. |
| BP601TC03 | Summarize physicochemical & pharmacological properties of drugs in class Anti-tubercular Agents, Anti tubercular antibiotics, Urinary tract anti-infective agents, Antiviral agents. |
| BP601TC04 | Understand drugs acting on Antifungal agents, Anti-protozoal Agents, Anthelmintics, Sulphonamides and Sulfones with their physicochemical & pharmacological properties. |
| BP601TC05 | Integrate modern techniques of rational drug design like quantitative structure activity relationship (QSAR), combinatorial chemistry and Computer aided drug design. |

CO-PO mapping

| | PO1 | PO 2 | PO 3 | PO 4 | PO 5 | PO 6 | PO 7 | PO 8 | PO 9 | PO 10 | PO 11 |
|------------------------|-----|------|------|------|------|------|------|------|------|-------|-------|
| Code | | | | | | | | | | | |
| BP601TC01 | 3 | 2 | 1 | 2 | - | 2 | - | 1 | 2 | 1 | 2 |
| BP601TC02 | 3 | 2 | 1 | 2 | - | 2 | - | 1 | 2 | 1 | 2 |
| BP601TC03 | 3 | 2 | 1 | 2 | - | 2 | - | 1 | 2 | 1 | 2 |
| BP601TC04 | 3 | 2 | 1 | 2 | - | 2 | - | 1 | 2 | 1 | 2 |
| BP601TC05 | 3 | 2 | 1 | 3 | 2 | 2 | - | 1 | 2 | 1 | 2 |
| Average | 3 | 2 | 1 | 2.2 | - | 2 | - | 1 | 2 | 1 | 2 |
| Average Roundup | 3 | 2 | 1 | 2 | 2 | 2 | - | 1 | 2 | 1 | 2 |

Correlation level 1,2,3 as defined below

1- Slight 2- Moderate 3 High

Devalle
 Course co-ordinator



Devalle
 DIRECTOR
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 Satara
 NBA co-ordinator



Prizyut
 HOD



NAAC- B⁺

Yashoda Shikshan Prasarak Mandal's
Yashoda Technical Campus,
 Faculty of Pharmacy Wadhe, NH-4, Satara – 41501
CO-PO mapping Justification

Name of the course:

Course Code:



Semester:

Class: ---- B.Pharm

| CO No. | PO's Mapped | Level | Justification |
|-----------|-------------|-------|--|
| BP601TCO1 | PO1 | 3 | Strongly mapped to pharmacy knowledge as the students will understand detailed knowledge about physicochemical & pharmacological properties of drugs in class Antibiotics. |
| | PO2 | 2 | Moderately mapped to planning abilities as the students will acquire the detailed knowledge about physicochemical & pharmacological properties of drugs in class Antibiotics. |
| | PO3 | 1 | Slightly mapped to problem analysis as the students will acquire the detailed knowledge about physicochemical & pharmacological properties of drugs in class Antibiotics. |
| | PO4 | 2 | Moderately mapped to modern tool usage as the students will acquire the detailed knowledge about physicochemical & pharmacological properties of drugs in class Antibiotics. |
| | PO6 | 2 | Moderately mapped to professional identity as the students will acquire the detailed knowledge about physicochemical & pharmacological properties of drugs in class Antibiotics. |
| | PO8 | 1 | Slightly mapped to communication as the students will acquire the detailed knowledge about physicochemical & pharmacological properties of drugs in class Antibiotics. |
| | PO9 | 2 | Moderately mapped to pharmacist and society as the students will acquire the detailed knowledge about physicochemical & pharmacological properties of drugs in class Antibiotics. |
| | PO10 | 1 | Slightly mapped to environment and sustainability as the students will acquire the detailed knowledge about physicochemical & pharmacological properties of drugs in class Antibiotics. |
| | PO11 | 2 | Moderately mapped to life-long learning as the students will acquire the detailed knowledge about physicochemical & pharmacological properties of drugs in class Antibiotics. |
| | BP601TCO2 | PO1 | 3 |
| PO2 | | 2 | Moderately mapped to planning abilities as the students will acquire the detailed knowledge about physicochemical & pharmacological properties of drugs in class Antimalarial & concept of prodrugs. |
| PO3 | | 1 | Slightly mapped as to problem analysis the students will acquire the detailed knowledge about physicochemical & pharmacological |

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| | | | properties of drugs in class Antimalarial & concept of prodrugs. |
| | PO4 | 2 | Moderately mapped to modern tool usage as the students will acquire the detailed knowledge about physicochemical & pharmacological properties of drugs in class Antimalarial & concept of prodrugs. |
| | PO6 | 2 | Moderately mapped professional identity as the students will acquire the detailed knowledge about physicochemical & pharmacological properties of drugs in class Antimalarial & concept of prodrugs. |
| | PO8 | 1 | Slightly mapped to communication as the students will acquire the detailed knowledge about physicochemical & pharmacological properties of drugs in class Antimalarial & concept of prodrugs. |
| | PO9 | 2 | Moderately mapped to pharmacist and society as the students will acquire the detailed knowledge about physicochemical & pharmacological properties of drugs in class Antimalarial & concept of prodrugs. |
| | PO10 | 1 | Slightly mapped to environment and sustainability as the students will acquire the detailed knowledge about physicochemical & pharmacological properties of drugs in class Antimalarial & concept of prodrugs. |
| | PO11 | 2 | Moderately mapped to life-long learning as the students will acquire the detailed knowledge about physicochemical & pharmacological properties of drugs in class Antimalarial & concept of prodrugs. |
| BP601TCO3 | PO1 | 3 | Strongly mapped to pharmacy knowledge as the students will understand detailed knowledge about physicochemical & pharmacological properties of drugs in class Anti-tubercular Agents, Anti tubercular antibiotics, Urinary tract anti-infective agents, Antiviral agents. |
| | PO2 | 2 | Moderately mapped to planning abilities as the students will acquire the detailed knowledge about physicochemical & pharmacological properties of drugs in class Anti-tubercular Agents, Anti tubercular antibiotics, Urinary tract anti-infective agents, Antiviral agents. |
| | PO3 | 1 | Slightly mapped to problem analysis as the students will acquire the detailed knowledge about physicochemical & pharmacological properties of drugs in class Anti-tubercular Agents, Anti tubercular antibiotics, Urinary tract anti-infective agents, Antiviral agents. |
| | PO4 | 2 | Moderately mapped to modern tool usage as the students will acquire the detailed knowledge about physicochemical & pharmacological properties of drugs in class Anti-tubercular Agents, Anti tubercular antibiotics, Urinary tract anti-infective agents, Antiviral agents. |
| | PO6 | 2 | Moderately mapped professional identity as the students will acquire the detailed knowledge about physicochemical & pharmacological properties of drugs in class Anti-tubercular Agents, Anti tubercular antibiotics, Urinary tract anti-infective agents, Antiviral agents. |
| | PO8 | 1 | Slightly mapped to communication as the students will acquire the detailed knowledge about physicochemical & pharmacological properties of drugs in class Anti-tubercular Agents, Anti tubercular |

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 Satara

BP601TCO5

| | | | |
|------|---|--|---|
| | | | agents, Anti-protozoal Agents, Anthelmintics, Sulphonamides and Sulfones with their physicochemical & pharmacological properties. |
| PO1 | 3 | | Strongly mapped to pharmacy knowledge as the students will understand detailed knowledge about modern techniques of rational drug design like quantitative structure activity relationship (QSAR), combinatorial chemistry and Computer aided drug design. |
| PO2 | 2 | | Moderately mapped to planning abilities as the students will acquire the detailed knowledge about modern techniques of rational drug design like quantitative structure activity relationship (QSAR), combinatorial chemistry and Computer aided drug design. |
| PO3 | 1 | | Slightly mapped to problem analysis as the students will acquire the detailed knowledge about modern techniques of rational drug design like quantitative structure activity relationship (QSAR), combinatorial chemistry and Computer aided drug design. |
| PO4 | 3 | | Strongly mapped to modern tool usage as the students will understand detailed knowledge about modern techniques of rational drug design like quantitative structure activity relationship (QSAR), combinatorial chemistry and Computer aided drug design. |
| PO6 | 2 | | Moderately mapped professional identity as the students will acquire the detailed knowledge about modern techniques of rational drug design like quantitative structure activity relationship (QSAR), combinatorial chemistry and Computer aided drug design. |
| PO8 | 1 | | Slightly mapped to communication as the students will acquire the detailed knowledge about modern techniques of rational drug design like quantitative structure activity relationship (QSAR), combinatorial chemistry and Computer aided drug design. |
| PO9 | 2 | | Moderately mapped to pharmacist and society as the students will acquire the detailed knowledge about modern techniques of rational drug design like quantitative structure activity relationship (QSAR), combinatorial chemistry and Computer aided drug design. |
| PO10 | 1 | | Slightly mapped to environment and sustainability as the students will acquire the detailed knowledge about modern techniques of rational drug design like quantitative structure activity relationship (QSAR), combinatorial chemistry and Computer aided drug design. |
| PO11 | 2 | | Moderately mapped to life-long learning as the students will acquire the detailed knowledge about modern techniques of rational drug design like quantitative structure activity relationship (QSAR), combinatorial chemistry and Computer aided drug design. |

Deval
Course co-ordinator



Hel
NBA co-ordinator
DIRECTOR
Yashoda Technical Campus
Satara



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HOD



NAAC- B⁺

Yashoda Shikshan Prasarak Mandal's
Yashoda Technical Campus,
 Faculty of Pharmacy Wadhe, NH-4, Satara – 41501

Course Outcomes

Name of the course: Instrumental Methods of Analysis

Course Code: BP701T

Semester: VII

Class: IV B.Pharm

After completion of course students will be able to

| CO | Course Outcomes |
|-----------|--|
| BP701TC01 | Understand and explain UV-Visible Spectroscopy and Fluorimetry |
| BP701TC02 | Understand and describe IR spectroscopy, Flamephotometry, AAS, Nepheloturbidometry |
| BP701TC03 | Understand and explain general chromatography, simple column chromatography, TLC, paper chromatography and electrophoresis |
| BP701TC04 | Understand and describe GC and HPLC |
| BP701TC05 | Understand and explain ion exchange, gel, affinity chromatography |

CO-PO mapping

| | PO1 | PO 2 | PO 3 | PO 4 | PO 5 | PO 6 | PO 7 | PO 8 | PO 9 | PO 10 | PO 11 |
|----------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Code | | | | | | | | | | | |
| BP701TC01 | 3 | 1 | 1 | 2 | 1 | 2 | 2 | 2 | 2 | 1 | 2 |
| BP701TC02 | 3 | 1 | 1 | 2 | 1 | 2 | 2 | 2 | 2 | 1 | 2 |
| BP701TC03 | 3 | 1 | 1 | 2 | 1 | 2 | 2 | 2 | 2 | 1 | 2 |
| BP701TC04 | 3 | 1 | 1 | 2 | 1 | 2 | 2 | 2 | 2 | 1 | 2 |
| BP701TC05 | 3 | 1 | 1 | 2 | 1 | 2 | 2 | 2 | 2 | 1 | 2 |
| Average | 3 | 1 | 1 | 2 | 1 | 2 | 2 | 2 | 2 | 1 | 2 |

Correlation level 1,2,3 as defined below

1- Slight 2- Moderate 3 High

Course co-ordinator



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 Yashoda Technical Campus
 NBA co-ordinator



HOD



Name of the course: Instrumental Methods of Analysis

Course Code: BP701T

Semester: VII

Class: B.Pharm

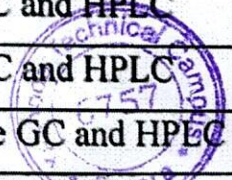
| CO No. | PO's Mapped | Level | Justification |
|-----------|-------------|-------|--|
| BP701TCO1 | PO1 | 3 | Highly mapping with Understand and explain UV-Visible Spectroscopy and Fluorimetry |
| | PO2 | 1 | Slightly mapping with Understand and explain UV-Visible Spectroscopy and Fluorimetry |
| | PO3 | 1 | Slightly mapping with Understand and explain UV-Visible Spectroscopy and Fluorimetry |
| | PO4 | 2 | Moderately mapping with Understand and explain UV-Visible Spectroscopy and Fluorimetry |
| | PO5 | 1 | Slightly mapping with Understand and explain UV-Visible Spectroscopy and Fluorimetry |
| | PO6 | 2 | Moderately mapping with Understand and explain UV-Visible Spectroscopy and Fluorimetry |
| | PO7 | 2 | Moderately mapping with Understand and explain UV-Visible Spectroscopy and Fluorimetry |
| | PO8 | 2 | Moderately mapping with Understand and explain UV-Visible Spectroscopy and Fluorimetry |
| | PO9 | 2 | Moderately mapping with Understand and explain UV-Visible Spectroscopy and Fluorimetry |
| | PO10 | 1 | Slightly mapping with Understand and explain UV-Visible Spectroscopy and Fluorimetry |
| | PO11 | 2 | Moderately mapping with Understand and explain UV-Visible Spectroscopy and Fluorimetry |
| BP701TCO2 | PO1 | 3 | Highly mapping with Understand and describe IR spectroscopy, Flamephotometry, AAS, Nepheloturbidometry |
| | PO2 | 1 | Slightly mapping with Understand and describe IR spectroscopy, Flamephotometry, AAS, Nepheloturbidometry |
| | PO3 | 1 | Slightly mapping with Understand and describe IR spectroscopy, Flamephotometry, AAS, Nepheloturbidometry |
| | PO4 | 2 | Moderately mapping with Understand and describe IR spectroscopy, Flamephotometry, AAS, Nepheloturbidometry |
| | PO5 | 1 | Slightly mapping with Understand and describe IR spectroscopy, Flamephotometry, AAS, Nepheloturbidometry |
| | PO6 | 2 | Moderately mapping with Understand and describe IR spectroscopy, Flamephotometry, AAS, Nepheloturbidometry |
| | PO7 | 2 | Moderately mapping with Understand and describe IR spectroscopy, Flamephotometry, AAS, Nepheloturbidometry |



| | | | |
|-----------|------|---|--|
| | | Flamephotometry, AAS, Nepheloturbidometry | |
| | PO8 | 2 | Moderately mapping with Understand and describe IR spectroscopy, Flamephotometry, AAS, Nepheloturbidometry |
| | PO9 | 2 | Moderately mapping with Understand and describe IR spectroscopy, Flamephotometry, AAS, Nepheloturbidometry |
| | PO10 | 1 | Slightly mapping with Understand and describe IR spectroscopy, Flamephotometry, AAS, Nepheloturbidometry |
| | PO11 | 2 | Moderately mapping with Understand and describe IR spectroscopy, Flamephotometry, AAS, Nepheloturbidometry |
| BP701TCO3 | PO1 | 3 | Highly mapping with Understand and explain general chromatography, simple column chromatography, TLC, paper chromatography and electrophoresis |
| | PO2 | 1 | Slightly mapping with Understand and explain general chromatography, simple column chromatography, TLC, paper chromatography and electrophoresis |
| | PO3 | 1 | Slightly mapping with Understand and explain general chromatography, simple column chromatography, TLC, paper chromatography and electrophoresis |
| | PO4 | 2 | Moderately mapping with Understand and explain general chromatography, simple column chromatography, TLC, paper chromatography and electrophoresis |
| | PO5 | 1 | Slightly mapping with Understand and explain general chromatography, simple column chromatography, TLC, paper chromatography and electrophoresis |
| | PO6 | 2 | Moderately mapping with Understand and explain general chromatography, simple column chromatography, TLC, paper chromatography and electrophoresis |
| | PO7 | 2 | Moderately mapping with Understand and explain general chromatography, simple column chromatography, TLC, paper chromatography and electrophoresis |
| | PO8 | 2 | Moderately mapping with Understand and explain general chromatography, simple column chromatography, TLC, paper chromatography and electrophoresis |
| | PO9 | 2 | Moderately mapping with Understand and explain general chromatography, simple column chromatography, TLC, paper chromatography and electrophoresis |
| | PO10 | 1 | Slightly mapping with Understand and explain general chromatography, simple column chromatography, TLC, paper chromatography and electrophoresis |
| | PO11 | 2 | Moderately mapping with Understand and explain general chromatography, simple column chromatography, TLC, paper chromatography and electrophoresis |
| BP701TCO4 | PO1 | 3 | Highly mapping with Understand and describe GC and HPLC |
| | PO2 | 1 | Slightly mapping with Understand and describe GC and HPLC |
| | PO3 | 1 | Slightly mapping with Understand and describe GC and HPLC |
| | PO4 | 2 | Moderately mapping with Understand and describe GC and HPLC |
| | PO5 | 1 | Slightly mapping with Understand and describe GC and HPLC |
| | PO6 | 2 | Moderately mapping with Understand and describe GC and HPLC |



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| | | | |
|----------|------|---|---|
| | PO7 | 2 | Moderately mapping with Understand and describe GC and HPLC |
| | PO8 | 2 | Moderately mapping with Understand and describe GC and HPLC |
| | PO9 | 2 | Moderately mapping with Understand and describe GC and HPLC |
| | PO10 | 1 | Slightly mapping with Understand and describe GC and HPLC |
| | PO11 | 2 | Moderately mapping with Understand and describe GC and HPLC |
| P701TC05 | PO1 | 3 | Highly mapping with Understand and explain ion exchange, gel, affinity chromatography |
| | PO2 | 1 | Slightly mapping with Understand and explain ion exchange, gel, affinity chromatography |
| | PO3 | 1 | Slightly mapping with Understand and explain ion exchange, gel, affinity chromatography |
| | PO4 | 2 | Moderately mapping with Understand and explain ion exchange, gel, affinity chromatography |
| | PO5 | 1 | Slightly mapping with Understand and explain ion exchange, gel, affinity chromatography |
| | PO6 | 2 | Moderately mapping with Understand and explain ion exchange, gel, affinity chromatography |
| | PO7 | 2 | Moderately mapping with Understand and explain ion exchange, gel, affinity chromatography |
| | PO8 | 2 | Moderately mapping with Understand and explain ion exchange, gel, affinity chromatography |
| | PO9 | 2 | Moderately mapping with Understand and explain ion exchange, gel, affinity chromatography |
| | PO10 | 1 | Slightly mapping with Understand and explain ion exchange, gel, affinity chromatography |
| | PO11 | 2 | Moderately mapping with Understand and explain ion exchange, gel, affinity chromatography |

Jvisyut
Course co-ordinator

AKL
NBA co-ordinator

Jvisyut
HOD



Welo
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NAAC- B⁺

Yashoda Shikshan Prasarak Mandal's
Yashoda Technical Campus,
 Faculty of Pharmacy Wadhe, NH-4, Satara – 41501

Course outcomes

Name of the course: Biostatistics and Research Methodology

Course Code: BP801T

Semester: VIII

Class: B.Pharm

After completion of course students will be able to-

| CO | Course Outcomes |
|-----------|---|
| BP101TC01 | Discuss the applications of Biostatics such as Correlation, Mean, Median, Mode, Range and standard deviation |
| BP101TC02 | Discuss Regression, Probability theory, Sampling technique, Parametric tests and Non Parametric tests in context of research & biostatistics. |
| BP101TC03 | Explain design of experiments for Phases of clinical trials and observational and experimental studies |
| BP101TC04 | Accomplished the operation of M.S. Excel, SPSS, R and MINITAB®, DoE (Design of experiment). |
| BP101TC05 | Accomplished the statistical techniques in Design and Analysis of experiments |


After completion of course students will be able to

CO-PO mapping

| | PO1 | PO 2 | PO 3 | PO 4 | PO 5 | PO 6 | PO 7 | PO 8 | PO 9 | PO 10 | PO 11 |
|------------------------|-----|------|------|------|------|------|------|------|------|-------|-------|
| Code | | | | | | | | | | | |
| BP101TCO1 | 3 | - | 3 | 2 | 1 | 2 | 1 | 1 | - | 1 | 2 |
| BP101TCO2 | 2 | - | 3 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| BP101TCO3 | 3 | - | 2 | 1 | 2 | 2 | 2 | 1 | 2 | 1 | 1 |
| BP101TCO4 | 1 | - | 3 | 3 | 1 | 2 | 1 | - | 1 | 1 | 2 |
| BP101TCO5 | 1 | - | 3 | 2 | - | 2 | 1 | - | - | 1 | 1 |
| Average | 2 | 0 | 2.8 | 2 | 1.25 | 1.8 | 1.2 | 1 | 1.33 | 1 | 1.4 |
| Average Roundup | 2 | 0 | 3 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 |

Correlation level 1,2,3 as defined below

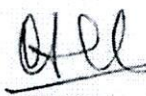
1- Slight 2- Moderate 3 High


 Course co-ordinator




 NBA co-ordinator
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 HOD



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Yashoda Technical Campus,
 Faculty of Pharmacy Wadhe, NH-4, Satara – 41501
Co-PO mapping Justification

Name of the course: Biostatistics and Research Methodology

Course Code: BP801T

Semester: VIII

Class: B.Pharm

| CO No. | PO's Mapped | Level | Justification |
|-----------|-------------|-------|---|
| BP101TCO1 | PO1 | 3 | Strongly mapped as the students will be able to acquire & apply mean, mode, median in research & their professional career. |
| | PO2 | 2 | Moderately mapped as the students will be able to develop & evaluate drug formulations in research & their professional career. |
| | PO4 | 2 | Moderately mapped as the students will be able to apply ethics in their professional career |
| | PO6 | 2 | Moderately mapped as the students will be able to apply analytical skill in research & their professional career |
| | PO10 | 2 | Moderately mapped as the students will be able to analyse problem in research their professional career |
| BP101TCO2 | PO1-10 | 0 | Didn't find planning ability in all CO's. |
| BP101TCO3 | PO1 | 3 | Strongly mapped as the students will be able to apply knowledge of clinical trials in research & their professional career |
| | PO3 | 2 | Moderately mapped as the students will have social awareness in clinical trials & their professional career |
| | PO6 | 2 | Moderately mapped as the students will be able to apply analytical skill (BABE) in research & their professional career |
| | PO7 | 2 | Moderately mapped as the students will be able to develop leadership skill in clinical trials & their professional career |
| | PO9 | 2 | Moderately mapped as the students will be able to have drug & diseases relationship in clinical trials & their professional career |
| BP101TCO4 | PO1 | 3 | Strongly mapped as the students will be able to apply knowledge of Excel & other softwares in research & their professional career |
| | PO6 | 2 | Strongly mapped as the students will be able to analyse problem by Excel & other softwares in research & their professional career |
| | PO11 | 2 | Moderately mapped as the students will be able to recognize the need of Excel & other softwares in research & their professional career |
| BP101TCO5 | PO2 | 3 | Moderately mapped as the students will be able to develop and evaluate experiments using DoE in research & their professional career |
| | PO6 | 2 | Moderately mapped as the students will be able to develop analysis skill problem by DoE in research & their professional career |
| | PO10 | 2 | Moderately mapped as the students will be able to analyse problem in research their professional career |



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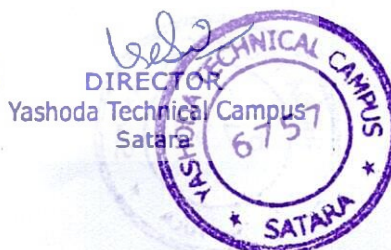
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All Course Co's

MCA I SEM- I

| Subject Name | Co's | Description |
|--|------|--|
| CC101: Introduction to Programming | CO1 | Understand Basic Syntax of Python Programming. |
| | CO2 | Demonstrate and implement concepts of object oriented methodology using Python. |
| | CO3 | Develop problem solving skills and their implementation through Python |
| | CO4 | Design Graphical user Interfaces in Python. |
| CC102 : Computer Architecture and Operating System | CO1 | Understand the architecture and working of hardware components in digital computer |
| | CO2 | Compare different memory devices used in digital computer. |
| | CO3 | Describe the basic concepts and functions of Operating System. |
| | CO4 | Illustrate features and significance of Linux operating system. |
| CC103: RDBMS | CO1 | Understand the fundamentals of relational systems including data models, database architectures, and database manipulations using SQL. |
| | CO2 | Design normalized database for business applications. |
| | CO3 | Understand the use of procedural Structured Query Language (PL/SQL). |
| | CO4 | Demonstrate programs using PL/SQL. |
| 104: Statistical and Mathematical | CO1 | Understand Basic algorithms and techniques of modern data analysis |
| | CO2 | Implement the algorithms using descriptive Statistical Analysis. |
| | CO3 | Apply a variety of methods for explaining, summarizing and presenting data and interpreting results clearly. |
| | CO4 | Perform the data analysis using classification and present the results of the analysis. |
| 105: Principles of Management and Organizational | CO1 | Understand basics of principles of management and organization behavior. |
| | CO2 | Understand concepts of Personality, learning, emotions, motivation and staffing |



| | | |
|--|-----|---|
| Behavior | | & controlling |
| | CO3 | Understand Group behavior, team building, communication and leadership. |
| | CO4 | Understand Organizational culture, change and development. |
| 106: Business Communication | CO1 | Determine competency level with the basic Communication Skills |
| | CO2 | Adapt Proficiency in handling Professional Communication |
| GE107: Elective 2. Knowledge Management | CO1 | Understand concept of knowledge management and technology application for knowledge management. |
| | CO2 | Use the knowledge management tools. |
| | CO3 | Understand knowledge management Applications. |
| | CO4 | Design knowledge management strategy for organization. |

MCA I SEM- II

| Subject Name | Co's | Description |
|---|-------------|---|
| CC201: Web Technology | CO1 | Apply the concept and usages web based programming techniques. |
| | CO2 | Demonstrate the development of XHTML documents using JavaScript and CSS. |
| | CO3 | Design and implement user interactive dynamic web based applications. |
| | CO4 | Demonstrate client side and server side scripting languages and validation techniques. |
| CC202: Data Structure | CO1 | Differentiate between primitive and non-primitive data types. |
| | CO2 | Select appropriate data type/structure to solve the problem. |
| | CO3 | Design and implement appropriate data structures for solving computing problems. |
| | CO4 | Understand and use various file structures. |
| CC202: Big Data Management | CO1 | Identify evolution of Big Data Management. |
| | CO2 | Understand Components and Tools of Big Data. |
| | CO3 | Apply Big Data Management techniques for processing data. |
| | CO4 | Evaluate role of different Big Data Storage Models and NOSQL for Business Applications. |
| CC204 : Data Communication & Network | CO1 | Understand the basic concepts of data communication and Networking. |
| | CO2 | Evaluate the performance of various networking models. |
| | CO3 | Analyze the performance of network on the basis of different services provided by it. |
| | CO4 | Identify security threats to network and tools to control network security. |
| CC205: | CO1 | Understand various software Process Models |




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|-----------------------|-----|---|
| | CO3 | Analyze risk and opportunities involved in IT business projects |
| | CO4 | Prepare feasibility report for a project |
| AEC306 :MOOC | CO1 | Build self learning capabilities through MOOC's. |
| | CO2 | Develop knowledge and skills in emerging areas of information technology. |
| CC309 : Major Project | CO1 | Identify the problem in existing system and develop SRS. |
| | CO2 | Understand the industrial line of work and corporate work culture. |
| | CO3 | Select appropriate technology platform for problem solving |
| | CO4 | Develop application using appropriate technology platform. |
| | CO5 | Test developed application for user acceptance. |
| | CO6 | Write project report in professional format. |

MCA II SEM- IV

| Subject Name | Co's | Description |
|---|------|--|
| CC401 : Artificial Intelligence and Soft Computing | CO1 | Understand building blocks of Artificial Intelligence. |
| | CO2 | Evaluate various AI Techniques for problem solving. |
| | CO3 | Analyze different soft computing techniques for solving problems. |
| | CO4 | Build artificial intelligence and soft computing models for real life scenario. |
| CC402: Advance Java Programing | CO1 | Understand the concept of JDBC, Servlet and its life cycle. |
| | CO2 | Design and develop JSP applications using JSP tags. |
| | CO3 | Develop MVC based Java Applications using Spring and Struts. |
| | CO4 | Apply Java Technology to develop the Small Applications using JSF and Hibernate. |
| CC403: Internet of Things | CO1 | Understand the role of IoT in various application domains. |
| | CO2 | Illustrate different technologies of IoT. |
| | CO3 | Identify various communication protocols used for IoT. |
| | CO4 | Elaborate emerging trends in IoT. |
| DSE404.1: Block Chain Technology | CO1 | Understand the structure of Blockchain |
| | CO2 | Identify basics of cryptocurrency. |
| | CO3 | Analyze different Block chain Vulnerabilities. |
| | CO4 | Determine various applications of Block chain. |
| AEC 405 : Research Methodology | CO1 | Define various terms used in research process |
| | CO2 | Describe research design, sample design and sampling methods |
| | CO3 | Apply appropriate methods for data collection and data analysis for research |



| | | |
|--|-----|---|
| Software Engineering and Project Management | CO2 | Design SRS document for Software Project |
| | CO3 | Understand Software Project Life Cycle |
| | CO4 | Describe Software quality attributes and identify IT project risk |
| GE206: Elective 1. Digital Marketing | CO1 | Understand concept and significance of Digital Marketing. |
| | CO2 | Demonstrate the Technical Elements of Digital Marketing. |
| | CO3 | Learn contemporary developments in Digital Marketing. |
| | CO4 | Use Google analytics tools for generating various reports. |

MCA II SEM- III

| Subject Name | Co's | Description |
|--|------|--|
| CC301: Java Programming | CO1 | Explain and Apply the Object Oriented Concepts for Solving Real Problem. |
| | CO2 | Create, Debug and Run Simple Java Programs using the Java SDK Environment. |
| | CO3 | Develop the Small Applications using networking and Multithreading. |
| | CO4 | Apply Events Management and Layout Managers Using AWT, Swing for ' Developing the Software for Various Problems. |
| CC302:Data Analytics | CO1 | Understand basics of Data analysis. |
| | CO2 | Identify tools available for data analytics in python. |
| | CO3 | Evaluate different libraries of python for data analytics |
| | CO4 | Analyze visualization tools for graphical representation of data in python |
| CC303 : Cyber Security | CO1 | Understand the fundamentals of Cyber security vulnerabilities. |
| | CO2 | Demonstrate different Cyber Security techniques. |
| | CO3 | Apply different Internet and Cyber Security Controls. |
| | CO4 | Describe Information Technology Act 2000. |
| DSE304: 1. Cloud Computing | CO1 | Differentiate between different types and services of cloud computing. |
| | CO2 | Assess the role of virtualization in cloud computing. |
| | CO3 | Identify security issues in cloud computing. |
| | CO4 | Describe risk assessment and management in cloud. |
| AEC305:Entrepreneurship Development | CO1 | Understand the concept and significance of Entrepreneurship |
| | CO2 | Understand eco-system available for entrepreneurship development |



| | | |
|---|-----|---|
| | | work and write research report. |
| | CO4 | Design Research proposal in the area of Computer Application. |
| AEC 406: Personality Development | CO1 | Recognize factors that influence and groom one's personality. |
| | CO2 | Develop good interpersonal skills and employability skills. |
| DSE407 : Seminar | CO1 | Identify and summarize a topic pertaining to recent advancements in IT and prepare a report based on the formatting guidelines. |
| | CO2 | Develop presentation skills using multimedia tools. |
| CC410: Mini Project | CO1 | Identify the problem in existing system. |
| | CO2 | Develop SRS document for proposed system. |
| | CO3 | Develop application using appropriate technology platform. |
| | CO4 | Validate the developed application. |



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MCA-I SEM-I

Course Outcomes CO's: Computer Architecture and Operating System

| | | |
|---|-----|--|
| CC102 : Computer Architecture and Operating System | CO1 | Understand the architecture and working of hardware components in digital computer |
| | CO2 | Compare different memory devices used in digital computer. |
| | CO3 | Describe the basic concepts and functions of Operating System. |
| | CO4 | Illustrate features and significance of Linux operating system. |

CO-PO Matrix of Course

| COs | P01 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|
| CC102-1 | 2 | 1 | | 1 | 2 | | 3 | | | | | | 3 | 1 |
| CC102-2 | 1 | 1 | 1 | 1 | 1 | | 2 | | | | | | 2 | 1 |
| CC102-3 | | 1 | 2 | 1 | | | 1 | | | | | | 1 | 1 |
| CC102-4 | 1 | 1 | 1 | 1 | 1 | | 1 | | | | | | 1 | |

CC102 is the subject code for Computer Architecture and Operating System.

Note:

Correlation/Mapping levels are 1, 2, and 3 respectively.

The levels are defined as follow:

Level 1: Low (Slightly mapped)

Level 2: Medium (Moderately mapped)

Level 3: High (Substantially mapped).



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MCA-I SEM-I

Course Outcomes CO's: Introduction to Python Programming

| Subject Name | Co's | Description |
|---|------|---|
| CC101: Introduction to Programming | CO1 | Understand Basic Syntax of Python Programming. |
| | CO2 | Demonstrate and implement concepts of object oriented methodology using Python. |
| | CO3 | Develop problem solving skills and their implementation through Python |
| | CO4 | Design Graphical user Interfaces in Python. |

CO-PO Matrix of Course

| COs | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|
| CC101-1 | 2 | 2 | 2 | 2 | 2 | | 2 | | | | | | 2 | 2 |
| CC101-2 | 2 | 2 | 3 | 3 | 2 | | 2 | | | | | | 2 | 2 |
| CC101-3 | 2 | 3 | 3 | 3 | 2 | | 3 | | | | | | 3 | 3 |
| CC101-4 | 2 | 2 | 3 | 2 | 2 | | 2 | | | | | | 2 | 3 |

CC101 is the subject code for Introduction to Python Programming.

Note:

Correlation/Mapping levels are 1, 2, and 3 respectively.

The levels are defined as follow:

Level 1: Low (Slightly mapped)

Level 2: Medium (Moderately mapped)

Level3: High (Substantially mapped).



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MCA-I SEM-II

| | | |
|------------------------------|-----|--|
| CC202: Data Structure | CO1 | Differentiate between primitive and non-primitive data types. |
| | CO2 | Select appropriate data type/structure to solve the problem. |
| | CO3 | Design and implement appropriate data structures for solving computing problems. |
| | CO4 | Understand and use various file structures. |

CO-PO Matrix of Course

Subject: Data Structure (CC202)

| Sr. No | COs | P01 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 |
|--------|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|
| 1 | CC202-1 | 2 | | 2 | | 3 | | 2 | | | | | | 2 | 2 |
| | CC202-2 | 2 | 3 | 2 | 3 | 2 | | 2 | | | | | | 2 | 3 |
| | CC202-3 | 2 | 2 | 3 | 3 | 2 | | 3 | | | | | | 3 | 2 |
| | CC202-4 | 2 | 2 | 2 | 2 | 3 | | 3 | | | | | | 2 | 2 |

CC202 is the subject code for Data Structure.

Note:

Correlation/Mapping levels are 1, 2, and 3 respectively.

The levels are defined as follow:

Level 1: Low (Slightly mapped)

Level 2: Medium (Moderately mapped)

Level 3: High (Substantially mapped).



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MCA-I SEM-II

| Subject Name | Co's | Description |
|------------------------------|------|--|
| CC201: Web Technology | CO1 | Apply the concept and usages web based programming techniques. |
| | CO2 | Demonstrate the development of XHTML documents using JavaScript and CSS. |
| | CO3 | Design and implement user interactive dynamic web based applications. |
| | CO4 | Demonstrate client side and server side scripting languages and validation techniques. |

CO-PO Matrix of Course

| COs | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|
| CC201-1 | 2 | 2 | 2 | 2 | 3 | | 2 | | | | | | 2 | 2 |
| CC201-2 | 2 | 2 | 3 | 2 | 2 | | 2 | | | | | | 2 | 3 |
| CC201-3 | 2 | 2 | 3 | 2 | 2 | | 3 | | | | | | 3 | 2 |
| CC201-4 | 2 | 2 | 2 | 2 | 3 | | 3 | | | | | | 2 | 2 |

CC201 is the subject code for Web Technology.

Note:

Correlation/Mapping levels are 1, 2, and 3 respectively.

The levels are defined as follow:

Level 1: Low (Slightly mapped)

Level 2: Medium (Moderately mapped)

Level 3: High (Substantially mapped).



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MCA-II SEM-III

| | | |
|--------------------------------|-----|--|
| CC301: Java Programming | CO1 | Explain and Apply the Object Oriented Concepts for Solving Real Problem. |
| | CO2 | Create Debug and Run Simple Java Programs using the Java SDK Environment. |
| | CO3 | Develop the Small Applications using networking and Multithreading. |
| | CO4 | Apply Events Management and Layout Managers Using AWT, Swing for Developing the Software for Various Problems. |

CO-PO Matrix of Course

CC301: Java Programming

| COs | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|
| CC101-1 | 2 | 3 | 3 | 2 | 2 | | 2 | | | | | | 3 | 3 |
| CC101-2 | 2 | 2 | 3 | 2 | 2 | | 2 | | | | | | 2 | 2 |
| CC101-3 | 2 | 3 | 3 | 3 | 2 | | 3 | | | | | | 3 | 3 |
| CC101-4 | 2 | 2 | 3 | 2 | 2 | | 2 | | | | | | 2 | 3 |

CC301 is the subject code for Java Programming.

Note:

Correlation/Mapping levels are 1, 2, and 3 respectively.

The levels are defined as follow:

Level 1: Low (Slightly mapped)

Level 2: Medium (Moderately mapped)

Level 3: High (Substantially mapped).



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 FACULTY OF MCA

2.6.1 Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the institution are stated and displayed on website Write description in a maximum of 500 words

| Sr. | Name of Document |
|-----|---|
| 1. | Program Outcomes (PO) for the MBA programs of Yashoda Technical institute is structured as per National Board of Accreditation (NBA) guidelines adopted by Shivaji University Kolhapur, being faculty of MBA affiliated to Shivaji University Kolhapur. |
| 2. | Course Outcomes- Taken as per defined in Syllabus of Shivaji University. |



A handwritten signature in blue ink, consisting of a large, stylized initial 'D' followed by a surname that appears to be 'Dharm'.




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SHIVAJI UNIVERSITY, KOLHAPUR-416 004. MAHARASHTRA
PHONE : EPABX-2609000 website- www.unishivaji.ac.in
FAX 0091-0231-2691533 & 0091-0231-2692333 – BOS - 2609094
शिवाजी विद्यापीठ, कोल्हापूर – 416004.
दुरध्वनी (ईपीएबीएक्स) २६०९००० (अभ्यास मंडळे विभाग- २६०९०९४)
फॅक्स : ००९१-०२३१-२६९१५३३ व २६९२३३३.e-mail:bos@unishivaji.ac.in

Ref./SU/BOS/Com & Mgmt./6490

Date : 26/06/2019

To,

The Principal
All Affiliated (Commerce & Management) Colleges/Institutions,
Shivaji University, Kolhapur

Subject : Regarding Syllabi and Equivalence of MBA Part-I (Sem-I/II) Choice Based Credit System (CBCS) degree programme under the Faculty of Commerce & Management.

Sir/Madam,

With reference to the subject mentioned above, I am directed to inform you that the University authorities have accepted and granted approval to the revised syllabi and equivalence of MBA Part-I (Sem-I/II) Choice Based Credit System (CBCS) under the Faculty of Commerce & Management.

This syllabi and equivalence shall be implemented from the academic year 2019-2020 (i.e. from June, 2019) onwards. A soft copy containing the syllabus is attached herewith and it is also available on university website www.unishivaji.ac.in (Online Syllabus).

The question papers on the pre-revised syllabi of above mentioned course will be set for the examinations to be held in October / November 2019 & March / April, 2020. These chances are available for repeater students, if any.

You are therefore, requested to bring this to the notice of all Students and Teachers concerned.

Thanking you,

Yours faithfully,


Dr. Registrar

Encl : As above

Copy to,

1. I/c Dean, Faculty of Commerce & Management
 2. Chairman, BOS under Faculty of Commerce & Management
 3. Director, BOEE
 4. Appointment Section
 5. P. G. Admission Section
 6. O. E. I Section
 7. Affiliation Section (U.G./P.G.)
 8. Computer Center/I.T.
 9. Eligibility Section
 10. Distance Education
 11. P.G. Seminar Section
- for information
- for information and necessary action.




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Shivaji University, Kolhapur

NAAC "A" Grade

Revised Syllabus For

Master of Business Administration (MBA) (CBCS)

Part – I (Sem I & II)

Under the Faculty of Commerce and Management

(To be implemented from June 2019)




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Syllabus For

Master of Business Administration (MBA) (CBCS)

(Subject to the modifications will be made from time to time)

Under the Faculty of Commerce and Management

Program to be implemented from June, 2019

- A.** Ordinance and Regulations:- (as applicable to degree/programme)
B. Shivaji University, Kolhapur, New/Revised Syllabus for Master of Business Administration Part I and II

1. Title : Master of Business Administration (CBCS)
2. Faculty of Commerce & Management
3. Year of Implementation :- MBA-I Semester I and II - Academic Year 2019-20

1. Introduction:

Considering the current requirement and present scenario of globalization and emerging trends in the Industry, Information Technology, there is need to make students aware and synchronize with the skills required in the industry. It is necessary to make changes in present curriculum of MBA.

2. General Objectives of the Course/ Paper:

The main objective of this course is to prepare the executives and managers for top level and middle level management in public cooperative and private sector organizations. Also to prepare students for taking start ups and self employment. The emphasis will therefore, be on developing a role perception of managerial level personnel in the Indian context by exposing them to a wide range of relevant areas, sufficiently in depth so that they may gain the confidence to interact with people at all levels and develop managerial skills for translating policies into action effectively.

Program Educational Outcomes

At the end of MBA program student should take of either of following.

1. Managerial decision making through the application of knowledge of management discipline
2. Set up business enterprise and manage diversified growth of entrepreneurship.



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Program Outcomes:

At the end of MBA program students should be with following abilities.

1. Recognize the functioning of business opportunities involvement of business enterprises and exploring the entrepreneurial opportunities.
2. Develop incubation center and entrepreneurship development center for students who intent to take up start up or grow existing business.
3. Develop skills on analyzing the business data application of relevant analysis and problem solving.
4. Demonstrate a global outlook with the ability to identify aspects of the global business and cross cultural understanding
5. Identify the contemporary social problems, exploring the opportunities for social entrepreneurship, designing business solutions and demonstrate ethical standards in organizational decision making.
6. Develop effective and oral communication especially in business applications, with the use of appropriate technology.
7. Collaborate and lead terms across organizational boundaries and demonstrate leadership qualities, maximize the uses of diverse skill of term members in the related context.

3. Schedule of Teaching and Examination: This is a full time master degree programme. The curriculum of this course is two years divided into four semesters. The teaching for Semester I and III is conducted from 1st August to 15th November (for 14 weeks) and teaching for Semester II, and IV is conducted from 1st January to 15th April (for 14 weeks). There will be an end of semester University examination in December and May for all the semesters. In addition there will be internal examinations for each paper conducted by the respective Institute.

4. Eligibility criteria for Admission: - In order to secure admission to first year of two-year full time MBA course, the candidate should fulfill the following eligibility criteria: • Passed with minimum of 50 % marks in aggregate (45% in case of candidates of backward class categories belonging to Maharashtra State only) in any Bachelor's degree of minimum of three years duration in any discipline recognized by the UGC. • Candidate should appear for the Common Entrance Test (MH-CET), conducted by the competent Authority of Maharashtra State for the MBA Admission.

5. Intake of the Course: As per AICTE approval



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2.6 Student Performance and Learning Outcomes 60

2.6.1 Teachers and students are aware of the stated Programme and course outcomes of the Programmes offered by the institution.

Describe Course Outcomes (COs) for all courses and mechanism of communication within a minimum of 500 characters and maximum of 500 words

File Description:

- Upload any additional information
- Past link for Additional information

Upload COs for all courses (exemplars from Glossary)

| Dept MBA | MBA -I SEM-I | |
|--------------|---------------------------------------|--|
| Subject Code | Name of Subject | COs |
| CC101 | Indian Ethos and Management | <ol style="list-style-type: none"> 1. Understand sources of organizational ethical culture and different behavior 2. Understand the way of righteousness in the Gita 3. Identify the features of Indian ethos 4. Analyze Principles of Management 5. Understand dynamics of ethics in management |
| CC102 | Management Accounting | <ol style="list-style-type: none"> 1. Describe concepts in management accounting. 2. Prepare final account of a company 3. Prepare cost sheet of a company 4. 4. Produce CVP analysis. |
| CC103 | Managerial Economics | <ol style="list-style-type: none"> 1. To introduce the students about managerial economics and its practices 2. To learn the production function and pricing practices 3. To aware about market structure and price determination under different market situations 4. To aware the students about capital budgeting and business cycles |
| CC104 | Information Technology for Management | <p>After completion of course students will be able to -</p> <ol style="list-style-type: none"> 1. Recognize different components of Information Technology. 2. Understand E-commerce models used in a |



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| | | <p>3. Analyze impact of E-banking on the business.</p> <p>4. Design a database.</p> |
| CC105 | Legal And Business Environment | <p>At the end of the course student should be able to</p> <ol style="list-style-type: none"> 1. Understand Legal Aspects of Business with respect to Indian economy. 2. Relate various legal provisions to relevant business aspects and situations. 3. Assess Business Environment in India. 4. Appraise Globalization trends a, challenges and environment for foreign trade and investments |
| CC106 | Organizational Behaviour | <p>1. Relate with the historical growth, factors and model of Organizational Behavior.</p> <p>CO2 Understand the determinants and various theories of personality development.</p> <p>CO3 Understand the concept of perception and the process.</p> <p>CO4 Understand the concept of attitude and values. Elaborate the sources and types of values.</p> <p>CO5 Relate different theories of motivation and Leadership with current situation and know the roles and activities of leadership</p> <p>CO6 Understand the various strategies for managing conflicts in organization .</p> <p>CO7 Understand the concept of organizational culture, organizational change and Development.</p> |
| AECC107 | Soft Skills Development | <p>After the completion of the course, students will be able to:</p> <ol style="list-style-type: none"> 1. understand the soft skills 2. Develop professional etiquettes and manners 3. Develop effective communication skills |
| SECC108 | Optional Group A Chh. Shivaji Maharaj – The Management Guru | <ol style="list-style-type: none"> 1. Describe functions of management. 2. Relate contemporary management with the management by Chh. Shivaji Maharaj. 3. Evaluate the planning and strategic options. 4. Design the planning and strategic options. |
| SECC108 | Optional A Computerized | <p>1. Create an Account of Unit</p> |



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| | Accounting | 2. Prepare financial statements with the help of computerized accounting system. |
| SECC108 | Optional A Personality Development | 1. Students will be able to develop professional personality, positive attitude towards everything. 2. Students will be able to develop good interpersonal relations with other individuals at work place. 3. Students will learn the time management and professional manners and etiquettes. |
| SECC108 | Optional Group A Business Models | 1. The students learn how innovative business models of companies in diverse industries operate. 2. The students understand the components of the business model through various conceptual frameworks. 3. The students apply these frameworks in the analysis of specific company business model cases. |
| SECC108 | Optional Group A Constitution of India | 1. Memorize and describe the articles in constitution. 2. Explain the meaning of different articles in constitution. 3. Summarize the different article in constitution. |
| SECC108 | Optional Group A Creativity and Innovation | 1. Understand building blocks of innovation. 2. Be familiar with processes and methods of creative problem solving. 3. Enhance their creative and innovative thinking skills 4. Be familiar with creative and innovative thinking styles |
| MBA -I SEM-II | | |
| CC201 | Marketing Management | 1. To familiarize students with marketing, and its concepts. 2. To acquaint with new marketing trends and the marketing environment. 3. To study the components of the marketing mix; identify how the firms marketing strategy, marketing mix evolve and adapt to match consumer behavior and perceptions of the product |
| CC202 | Financial Management | 1. Describe strategic financial planning and |




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| | | models. 2. Describe working capital management. 3. Estimate time value of money 4. Analyze statements of accounts. |
| CC203 | Human Resource Management | CO1 Understand the concept, objectives and changing role of HRM CO2 Describe the objectives, benefits and process of HRD CO3 Understand procurement process that includes; HRP, factors affecting Recruitment sources, selection process and placement CO4 Differentiate training and development and understand methods of training CO5 Analyze the need and problems of performance appraisal CO6 Understand factors affecting wage and salary administration and principles of employee benefit programme |
| CC204 | Operations Management | 1. To help student learn operations management system and issues pertaining to management of productivity, manufacturing technology and facilities. 2. To provide students with various elements underline the basic functions of operations management. 3. To familiarize the students with various techniques of inventory control. 4. To familiarize the students with various aspects of quality management |
| CC205 | Management Information System | After completion of course students will be able to - 1. Identify the process of decision making at different management levels in an organization. 2. Understand importance and need of Management Information System in monitoring and controlling the business transactions. 3. Examine the role of different decision support systems in achieving strategic advantage. 4. Recommend different SAP modules applicable for various types of business |

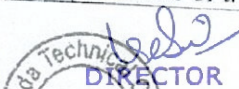
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| CC206 | Research Methodology | CO 1: Define various terms used in research process CO 2: Describe research design, sample design and sampling methods CO 3: Apply appropriate methods for data collection for research work CO4: Use appropriate statistical tools for data analysis and interpretation |
| CC207 | Managerial Skills For Effectiveness | 1. Enable the students to learn the art of getting things done in the modern business world. 2. This course will enable Students to maintain efficiency in the way how employers are performing the working tasks. 3. Will enable skills to manage people and technology with the purpose of effective and efficient fulfillment of their tasks. |
| SECC208 | Option B Total Quality Management | 1. Describe principles of business and social excellence. 2. Illustrate models and quality management methodology for the implementation of total quality management in any sphere of business and public sector. 3. Describe various principles and core concepts of Total Quality Management. 4. Describe principles of total quality management and peculiarities of their implementation. 5. Understand the part Total Quality Management play in management to understand the essential steps for the successful implementation of Total Quality Management. 6. Analyzing and solving problems of organization using quality management systems. |
| SECC208 | Option B Negotiation Skills | 1. Students will learn interview skill. 2. Students will be able to develop confidence in participating in group discussions. 3. Students will able to deal with problematic people. 4. Students will learn negotiation and decision making techniques. |
| SECC208 | Option B Taxation | 1. Explain the terms of GST 2. Compute GST for a given case |



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| | | 3. Understand the process of online submission and documentations |
| SECC208 | Option B E-Business | 1. Understand the concept, need and e-Business components 2) Recognize different Information Technology components required for implementation of ebusiness. 3) Analyze impact of e-business on the performance of organization |
| SECC208 | Option B Computer Applications for Business | 1. Make use of Ms-Office for business applications. 2. Create interactive presentations and documents. 3. Analyze and Visualize business data using Ms-Excel. |
| SECC208 | Option B Behavioral Finance | 1. Understand the concepts of Behavioural Finance. 2. Construct behavioral measurement instrument. 3. Analyze behavior with respect to financial decisions |
| MBA -II SEMESTER-III | | |
| CC301 | STRATEGIC AND CHANGE MANAGEMENT | Students of this course will be able to: 1. Understand the concept and process of strategic management 2. Evaluate external and internal business environment 3. Analyze situational SWOT 4. Understand various tools used for strategic choice 5. Understand the concept of Corporate Governance and CSR |
| CC302 | BUSINESS INTELLIGENCE & ANALYTICS | Students of this course will be able to: 1. Understand the business intelligence essentials 2. Explain various descriptive statistical tools for proper inferences. 3. Generate assignment and transportation models for any organization. 4. Develop Queuing model, Game theory, network analysis for any organization |
| AECC303 | PROJECT REPORT AND VIVA VOCE | 1. Student to practically apply or understand theoretical concepts. 2. Student able to prepare the project report. |
| DSC304 | ELECTIVE – I MARKETING | Students of this course will be able to: |



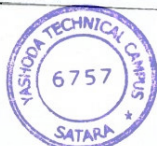

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| | MANAGEMENT PAPER - I BUYING BEHAVIOUR AND BRAND MANAGEMENT | <ol style="list-style-type: none"> 1. Compare consumer behaviour and its effect on buying decision 2. Demonstrate consumer behaviour and buying decision process 3. Application of effective marketing program by understanding buyer behaviour 4. Develop brand building abilities |
| DSC305 | ELECTIVE - I MARKETING MANAGEMENT PAPER – II ADVERTISING AND SALES MANAGEMENT | <p>Students of this course will be able to:</p> <ol style="list-style-type: none"> 1. To develop the understanding of advertising management. 2. To help students analyze different Medias and execute media plan. 3. To develop the understanding of various sales forecasting methods and to know the application of it. 4. To understand and learn the process of Personal Selling. 5. To understand the Logistics & Supply Chain Management practices and its application. |
| DSC306 | ELECTIVE -II HUMAN RESOURCEMANAGEMENT PAPER – I COMPENSATION MANAGEMENT | <p>Students of this course will be able to:</p> <ol style="list-style-type: none"> 1. Discuss the theories, philosophies, techniques and approaches to manage the pay systems. 2. Gain the insight of Compensation management concepts and practices to design pay structure and benefits for better management of human resources. 3. Develop an understanding of various legislations to design the pay systems. 4. Develop the knowledge related to Policy issues of employee benefits in India, voluntary and Government mandated benefits. 5. Enhance necessary critical thinking skills in order to evaluate different jobs and design salary structure 6. Apply the legal aspects in wide range of issues related to Compensation management. |
| DSC307 | ELECTIVE-II HUMAN RESOURCE MANAGEMENT PAPER - II HUMAN RESOURCE DEVELOPMENT | <p>Students of this course will be able to:</p> <ol style="list-style-type: none"> 1. It will help the students to learn the conceptual theme of HRD. 2. Empower the students to design and |



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| | | <p>develop the training modules.</p> <p>3. It will help students to know how to retain the top talent in the organization.</p> <p>4. Incorporate students in performance appraisal, career planning and employee engagement.</p> <p>5. Apply the right evaluation framework of HR.</p> <p>6. Demonstrate the ability to carry out competency mapping</p> |
| DSC306 | ELECTIVE III- FINANCIAL MANAGEMENT PAPER- I INDIAN FINANCIAL SYSTEM | <p>Students of this course will be able to:</p> <ol style="list-style-type: none"> 1. To Describe the Role of Financial Sector in the economy. 2. To recognize availability of various financial markets 3. To analyze the Trading Mechanism in Stock Exchanges. 4. To define different financial services. |
| DSC307 | ELECTIVE III- FINANCIAL MANAGEMENT PAPER- II CORPORATE RESTRUCTURING AND LIQUIDITY MANAGEMENT | <p>Students of this course will be able to:</p> <ol style="list-style-type: none"> 1. To indicate types of restructuring. 2. To assess techniques of cash management. 3. To summarize objectives and provisions of receivables management. 4. To analyze the financial management of sick units |
| DSC306 | ELECTIVE IV PRODUCTION MANAGEMENT PAPER-I OPERATIONS MANAGEMENT STRATEGIES | <p>Students of this course will be able to:</p> <ol style="list-style-type: none"> 1. Describe various Operations Management Strategies. 2. Create comprehensive product development framework. 3. Explain Decision Areas for Formation of operations strategy. 4. Formulate outline of Implementation of production planning & control |
| DSC307 | ELECTIVE- IV PRODUCTION MANAGEMENT PAPER-II MATERIALS & INVENTORY MANAGEMENT | <p>Students of this course will be able to:</p> <ol style="list-style-type: none"> 1. Describe various functions of materials management. 2. Formulate inventory planning with various aspects. 3. Implement various inventory control techniques. 4. Explain various other aspects of Materials Management |
| DSC 306 | ELECTIVE -V IT & SYSTEM MANAGEMENT | <p>Students of this course will be able to:</p> <ol style="list-style-type: none"> 1. Understand emerging Technologies and |



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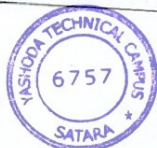
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| | PAPER – I IT STRATEGY & GOVERNANCE | <p>strategic role of IT in strategy</p> <ol style="list-style-type: none"> 2. Develop IT strategy for any manufacturing or service organization. 3. Understand IT governance areas and determine IT governance implementation problems in business organization 4. Develop IT Governance framework for IT enabled organizations. |
| DSC307 | ELECTIVE- V IT & SYSTEM MANAGEMENT PAPER- II INFORMATION SYSTEM SECURITY AND AUDIT | <p>Students of this course will be able to:</p> <ol style="list-style-type: none"> 1. Demonstrate the concepts of information systems audit and security. 2. Estimate the organizations risk management IS controls and data security architecture. 3. Define the application of various types of Computer-Assisted System Audit Tools and Techniques. 4. Design security policy for IT enabled organization. |
| DSC306 | ELECTIVE-VI AGRICULTURAL BUSINESS MANAGEMENT PAPER –I AGRIBUSINESS MANAGEMENT AND PRACTICES | <p>Students of this course will be able to:</p> <ol style="list-style-type: none"> 1. To introduce about the scope of Agribusiness Business in India 2. To provide skills and techniques to run Agribusiness Business 3. To aware about Agribusiness Business laws and legislations |
| DSC307 | ELECTIVE-VI AGRICULTURAL BUSINESS MANAGEMENT PAPER –II AGRI-BUSINESS FINANCE | <p>Students of this course will be able to:</p> <ol style="list-style-type: none"> 1. Understand Agribusiness Business in India 2. Describe the nature of Agri-Business Finance. 3. Describe Institutional and Non Institutional finance for agriculture sector. 4. Understand financial management for Agri-business. |
| DSC306 | ELECTIVE-VII TEXTILE MANAGEMENT PAPER-I TEXTILE MANUFACTURING | <p>Students of this course will be able to:</p> <ol style="list-style-type: none"> 1. Study spinning process for yarn manufacturing and count calculations. 2. Understand the fabric manufacturing process and fabric terminologies. 3. Compare weaving and knitting process and fabrics 4. Classify looms and analyses of factors influencing costing of fabrics |
| DSC 307 | ELECTIVE-VII TEXTILE | <p>Students of this course will be able to:</p> |



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| | MANAGEMENT PAPER-II -INDIAN TEXTILE INDUSTRY | <ol style="list-style-type: none"> 1. Develop an awareness of multiple approaches of Indian textile industry. 2. Learn about the structure of Indian textile Industry. 3. Understand current position of textile industry in India. 4. Understand the scope of technical textile and area of application of technical textiles |
| DSC306 | ELECTIVE VIII- HOSPITALITY MANAGEMENT PAPER I FUNDAMENTALS OF HOSPITALITY MANAGEMENT | <p>Students of this course will be able to:</p> <ol style="list-style-type: none"> 1. Understand nature and characteristics of Hospitality Industry 2. Identify demand and supply in hospitality services 3. Able to analyze 7 P's of marketing of hospitality firm 4. Design blue print for hospitality firm 5. Evaluate services quality of hospitality organization |
| DSC307 | ELECTIVE VIII - HOSPITALITY MANAGEMENT PAPER-II HOTEL MANAGEMENT | <p>Students of this course will be able to:</p> <ol style="list-style-type: none"> 1. Understand various types of hotels and their organization structure. 2. Apply standard housekeeping practices to deliver quality service to the customer. 3. Discriminate among the list of security measure and environment management practices and determine best measures and practices which would lead to increased reliability towards hotel security and environment management among the customers. 4. Evaluate challenges faced by hotel industry in the era of industry 4.0. 5. Design smart hotels and eco-friendly practices in hotel management. |
| DSC306 | ELECTIVE - IX- ENTREPRENEURSHIP DEVELOPMENT PAPER- I PROJECT PLANNING AND IMPLEMENTATION | <p>Students of this course will be able to:</p> <ol style="list-style-type: none"> 1. Understand the concept and significance of project. 2. Understand management of functional dimensions of Project. 3. Analyze risk and opportunities involved in project management. 4. Prepare feasibility report for a project. |
| DSC 307 | ELECTIVE - IX- | <p>Students of this course will be able to:</p> |



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| | ENTREPRENEURSHIP DEVELOPMENT PAPER- II INSTITUTIONAL SUPPORT AND VENTURE FUNDING | <ol style="list-style-type: none"> 1. This course prepares participants for a future career as entrepreneurs. 2. It is designed to give participants practical insights into those business aspects of finance that are particularly important during a firm's early development phases, and to make them more effective in managing and growing the start-up firm. 3. Participants will be able to approach various funding agencies and procure a venture capital funding for the business that they may launch. |
| DSC306 | ELECTIVE – X- INTERNATIONAL BUSINESS PAPER- I PRINCIPLES OF INTERNATIONAL BUSINESS | <p>Students of this course will be able to:</p> <ol style="list-style-type: none"> 1. To explain the concept of International Business 2. To develop the understanding of difference between domestic & international business 3. To bring the awareness of International Business Environment & business strategies |
| DSC307 | ELECTIVE – X- INTERNATIONAL BUSINESS PAPER- II EXPORT AND IMPORT POLICY | <p>Students of this course will be able to:</p> <ol style="list-style-type: none"> 1. To Understand Various International Business Dimensions 2. Export Policy procedure 3. Import Policy Procedure 4. How to start Export and Import Business |
| DSC306 | ELECTIVE -XI BUSINESS ANALYTICS PAPER –I BUSINESS DATA MANAGEMENT | <p>Students of this course will be able to:</p> <ol style="list-style-type: none"> 1. Understand DBMS and components of DBMS. 2. Design database for business applications. 3. Describe various stages in Data Warehouse development process. 4. Evaluate and select appropriate data-mining algorithms |
| DSC307 | ELECTIVE- XI BUSINESS ANALYTICS PAPER- II BUSINESS ANALYTICS IN MANAGEMENT | <p>Students of this course will be able to:</p> <ol style="list-style-type: none"> 1. Understand basics of business analytics 2. Describe business analytics in different functional areas of business 3. Create basic calculations including basic arithmetic calculations and aggregations. 4. Applications of Ms- excel for visualizations of business data |
| DSC306 | Elective XII Digital Marketing | <ol style="list-style-type: none"> 1. Understand the concept and process of |



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| | PAPER- I (Digital Marketing and Strategy) | Digital Marketing. 2. Understand the concept of digital marketing planning and strategy 3. Understand the concept of web based research. |
| DSC307 | Electives XII Digital Marketing PAPER- II (Website Development) | 1. Understand the concept of website development 2. Understand the process of website development 3. Design the website |
| DSC306 | Elective XIII Supply Chain Management Paper I SUPPLY CHAIN CONCEPT AND PLANNING | After completion of course students will be able to-1.Describe various supply chain concept 2. Explain Supply Chain Drivers and Metrics. 3. Analyze Relationship Management in Supply Chain.4.Formulate Planning in a Supply Chain. |
| DSC307 | Elective XIII Supply Chain Management PAPER-II SUPPLY CHAIN STRATEGY | After completion of course students will be able to1. Describe various supply chain strategies. 2. Explain Supply Chain technology. 3. Analyze Strategic supply chain costs. 4. Formulate a Supplier framework in supply Chain |
| SECC308 | OPTIONAL – C II- ERP/SAP | Students of this course will be able to: 1. Understand modules and subsystems of SAP. 2. Understand SAP implementation methodology |
| SECC308 | OPTIONAL – C III- BUSINESS ANALYTICS | Students of this course will be able to: 1. Understand various analytical techniques 2. Formulate business problem using analytical techniques 3. Implement the best analytical technique for optimization |
| SECC308 | OPTIONAL – C* IV- LABOUR LAWS | Students of this course will be able to: 1. Learn about the practical implementation of Industrial Employment Act 1946. 2. Learn about the various provisions of Industrial Dispute Act 1947 3. Learn about the various measures to be taken to resolve the industrial disputes. |
| SECC308 | OPTIONAL – C V- MARKETING RESEARCH | Students of this course will be able to: 1. Explain the concepts related to Marketing |



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| | | Research 2. Applications of Marketing research |
| SECC308 | OPTIONAL – C VI- CUSTOMER RELATIONSHIP MANAGEMENT | Students of this course will be able to: 1. Use effective Customer Relationship Management practices to retain the customers. 2. Construct CRM strategies |
| MBA -II SEMESTER -IV | | |
| CC401 | INNOVATION AND ENTREPRENEURSHIP | 1. Understand the concept of entrepreneurship and related theories 2. Evaluate the profile of successful entrepreneur 3. Analyze entrepreneurial opportunities |
| CC402 | STARTUPS AND NEW VENTURE | Students of this course will be able to: 1. Understand different form of business enterprises 2. Evaluate the role of different institutions providing a support system for new ventures 3. Analyze different business models. 4. Understand factors to be considered to develop feasibility report |
| SECC403 | Employability Skills | Students of this course will be able to: 1. This course shall enable the students to develop various skills needed to perform different roles to be employable, be it as an Employee or Entrepreneur. 2. To enhance an individual's ability to gain initial employment, maintain employment, move between roles within the same organization, obtain new employment if required and (ideally) secure suitable and sufficiently fulfilling work. 3. This course focuses on both the core aspects of the Employability skills. Hard Skills & Soft Skills. |
| DSE404 | ELECTIVE I- MARKETING MANAGEMENT PAPER-III SERVICE MARKETING AND RETAIL MARKETING | Students of this course will be able to: 1. Understanding of the unique challenges inherent in managing and delivering quality services. 2. Analyse and develop the service marketing strategies 3. Understanding of retail formats 4. Develop and understand retail marketing |



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| DSE405 | ELECTIVE I- MARKETING MANAGEMENT PAPER— IV CONTEMPORARY ISSUES IN MARKETING | <p>mix strategies</p> <p>Students of this course will be able to:</p> <ol style="list-style-type: none"> 1. Analyze global marketing environment 2. Illustrate global marketing strategies 3. Analyse and develop rural marketing strategies 4. Understand digital marketing applications 5. Develop an event marketing programme |
| DSE406 | ELECTIVE -II HUMAN RESOURCE MANAGEMENT PAPER -III STRATEGIC HUMAN RESOURCE MANAGEMENT AND INTERNATIONAL PERSPECTIVE | <p>Students of this course will be able to:</p> <ol style="list-style-type: none"> 1. Apply the concepts and knowledge in deployment, expatriate on international assignment. 2. Adopt international HRM strategies 3. Analyze the impact of issues and global imperatives on HR concepts, policies and practices. 4. Differentiate between domestic and international HRM 5. Demonstrate knowledge of developing of HR practices as strategic differentiators 6. Establish the linkage between firm strategy and HR practices of the firm through Resource-based view of Competitive Advantage and Sustained Competitive Advantage. 7. Differentiate between traditional and strategic HRM 8. Develop the strategic HR Tools |
| DSE407 | ELECTIVE -II HUMAN RESOURCE MANAGEMENT PAPER - IV INDUSTRIAL RELATIONS AND LABOUR LAWS | <p>Students of this course will be able to:</p> <ol style="list-style-type: none"> 1. Discuss the theories, techniques and approaches to manage industrial relations 2. Gain the insights of IR concepts and practices to design programs for better industrial relations and peace. 3. Develop an understanding of Industrial Relations Institutions such as employer associations, trade unions and industrial tribunals. 4. Develop the knowledge related to settle the industrial disputes. 5. Enhance necessary critical thinking skills in order to |



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| | | evaluate different labour laws for harmonious employee –management relations. 6. Apply the legal aspects in wide range of issues related to HR |
| DSE406 | ELECTIVE III- FINANCIAL MANAGEMENT PAPER-III: INVESTMENT MANAGEMENT | Students of this course will be able to: 1. Analyze various investment avenues. 2. Demonstrate analytical framework of investments. 3. Evaluate mutual funds and debt instruments. 4. Design investment plans for individual. |
| DSE407 | ELECTIVE III- FINANCIAL MANAGEMENT PAPER-IV INTERNATIONAL FINANCE | Students of this course will be able to: 1. To discuss international financial markets and institutions. 2. To analyze Exchange Rate Mechanism 3. To appraise Export Import Financing Mechanism. 4. To enumerate Financial Management of Multinational Corporations |
| DSE406 | ELECTIVE IV PRODUCTION MANAGEMENT PAPER-III GLOBAL OPERATIONS & LOGISTICS | Students of this course will be able to: 1. Describe various global operations & logistics strategies. 2. Formulate global operations & logistics planning. 3. Explain Risk Management in global operations & logistics 4. Outline effective management of global operations & logistics |
| DSE407 | ELECTIVE IV PRODUCTION MANAGEMENT PAPER- IV WORLD CLASS MANUFACTURING | Students of this course will be able to: 1. To help the students understand the world class manufacturing environment. 2. To familiarize the students to use of IT in manufacturing and JIT Principles 3. To familiarize the students with quality management in world class manufacturing 4. To help students to understand the automation and environmental aspects in world class manufacturing |
| DSE406 | ELECTIVE V : IT & SYSTEM MANAGEMENT PAPER III BUSINESS PROCESS REENGINEERING& ERP | Students of this course will be able to: 1. Make a process model and apply it in the re-design of a process & understand the important role it plays in the development of a BPR project. 2. Understand the various models of ERP. |



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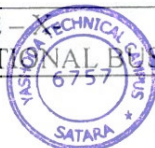


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| | | <p>3. Describe the ERP implementation process and develop ERP implementation plan.</p> <p>4. Understand Oracle ERP features and apply for organizational processes</p> |
| DSE407 | ELECTIVE V IT & SYSTEM MANAGEMENT PAPER IV KNOWLEDGE MANAGEMENT | <p>Students of this course will be able to:</p> <ol style="list-style-type: none"> 1. Understand the core concepts of Knowledge Management. 2. Identify the role of Information Technology in Knowledge Management. 3. Identify knowledge sources in organization and develop KM systems. 4. Analyze the scope of Artificial Intelligence in Knowledge Management. |
| DSE406 | ELECTIVE-VI AGRICULTURAL BUSINESS MANAGEMENT PAPER -III AGRO - PROCESSING INDUSTRIES | <p>Students of this course will be able to:</p> <ol style="list-style-type: none"> 1. To able the students for understand the concept of agro-processing industries. 2. To make the students aware about problems and prospects of agroprocessing industries. |
| DSE407 | ELECTIVE-VI AGRICULTURAL BUSINESS MANAGEMENT PAPER -IV INTERNATIONAL TRADE IN AGRICULTURE | <p>Students of this course will be able to:</p> <ol style="list-style-type: none"> 1. Students get acquainted with the theoretical aspects of international trade. 2. Equip the students with the various theories of international trade. 3. Get familiar with the growth, composition and direction of India's international trade in agriculture. 4. Train the students in business logistics and documentation. |
| DSE406 | ELECTIVE-VII TEXTILE MANAGEMENT PAPER-III APPAREL RETAIL MANAGEMENT | <p>Students of this course will be able to:</p> <ol style="list-style-type: none"> 1. Understand the retailing process. 2. Understand the basics of retail formats. 3. Develop an awareness of retailing concepts. 4. Understand about mall management |
| DSE407 | ELECTIVE-VII TEXTILE MANAGEMENT PAPER - IV FASHION MANAGEMENT | <p>Students of this course will be able to:</p> <ol style="list-style-type: none"> 1. Understand latest trends in domestic and international fashion in Textiles 2. Develop and initialize a fashion vocabulary and basic concepts. 3. Understand about fashion business. 4. Understand concepts of visual |



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| | | merchandising |
| DSE406 | ELECTIVE VIII- HOSPITALITY MANAGEMENT PAPER III TOURISM MANAGEMENT | Students of this course will be able to: 1. To Understand Various Tourism Trends and Tourism Policy in India. 2. To Know Initiatives of Tourism Organization in Tourism Development. 3. To Understand Availability of Tourism Resources and It's marketing |
| DSE407 | ELECTIVE VIII - HOSPITALITY MANAGEMENT PAPER -IV EVENT MANAGEMENT | Students of this course will be able to: 1. Understand the concept and importance of Event Management. 2. Analyze the process of strategic marketing and the need for strategic marketing for events 3. Understand the process of budgeting for events. 4. Analyze the requirement of clients and do the planning of activity. 5. Create plan for various types of events 6. Able to evaluate the plan developed for an events |
| DSE406 | ELECTIVE – IX- ENTREPRENEURSHIP DEVELOPMENT PAPER-III FAMILY BUSINESS MANAGEMENT | Students of this course will be able to: 1. Understand the concept of family business 2. Understand management of functional dimensions of family business 3. Analyze risk and opportunities related to family business 4. Prepare a business plan for family business |
| DSE407 | ELECTIVE – IX- ENTREPRENEURSHIP DEVELOPMENT PAPER- IV ECONOMIC DEVELOPMENT AND ENTREPRENEURSHIP | Students of this course will be able to: 1. To understand the need and importance of Economic development. 2. To study the role of entrepreneurship in the context of economic development. 3. This course prepares participants for a future career as entrepreneurs. |
| DSE406 | ELECTIVE – X- INTERNATIONAL BUSINESS PAPER-III ISSUES IN INTERNATIONAL BUSINESS | Students of this course will be able to: 1. Understanding of International Logistics 2. Understanding role of International transportation. 3. Enhancing knowledge of supply chain management. 4. Creating awareness of Ethics and CSR at international business. |
| DSE407 | ELECTIVE – INTERNATIONAL BUSINESS | Students of this course will be able to: 1. Understand the impact of an international |



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| | PAPER- IV CROSS CULTURAL MANAGEMENT | <p>context on management practices based on culture.</p> <p>2. Explain and evaluate frameworks for guiding cultural and managerial practice in international business.</p> <p>3. Identify the cross cultural issues in the world.</p> <p>4. Understand and appreciate the cultural and managerial practice in international business.</p> |
| DSE406 | ELECTIVE- XI BUSINESS ANALYTICS PAPER- III BUSINESS ANALYTICS USING R | <p>Students of this course will be able to:</p> <p>1. Understand basics of programming and R.</p> <p>2. Install and configure software necessary for data analytics</p> <p>3. Make use of various functions and control statements.</p> <p>4. Analyze data graphically by creating a variety of plots using the appropriate visualization tools of R.</p> |
| DSE407 | ELECTIVE- XI BUSINESS ANALYTICS PAPER- IV CLOUD COMPUTING AND VIRTUALIZATION | <p>Students of this course will be able to:</p> <p>1. Understand the Enabling Technologies and Cloud Computing Models including Infrastructure/Platform /Software.</p> <p>2. Understand the Cloud Operating System, Cloud Architectures including Federated Clouds, Scalability, Performance, Quality of Service, Data centers for Cloud Computing</p> <p>3. Principles of Virtualization platforms, Security and Privacy issues in the Cloud, Virtualization Techniques & Virtualization Technology</p> |
| DSE406 | Elective XII- Digital Marketing PAPER- III - Search Engine Optimization and Online Campaign management | <p>1. Understand the concept of SEO</p> <p>2. Understand the concept of Online campaign management</p> <p>3. Planning for online campaigns</p> |
| DSE407 | Elective XII - -Digital Marketing PAPER- IV Social Media Marketing | <p>1. Understand the concept of Social Media Marketing.</p> <p>2. Perform planning of social media marketing for small business.</p> <p>3. Design campaign using social media</p> <p>4. Plan for the social media research</p> |
| DSE406 | Elective XIII Supply Chain Management PAPER-III Retail Supply Chain Management | <p>After completion of course students will be able to 1. To understand foundational knowledge associated with the supply chain analytics</p> |



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| | | <p>2.To describe the various decision domains in Supply Chain Analytics such as location, network, inventory.</p> <p>3. To analyze the applications of analytics in supply chain.</p> <p>4. To understand core methods of supply chain analytics and modeling and learn how to apply them.</p> |
| DSE407 | Elective XIII Supply Chain Management PAPER-IV Supply Chain Analytics | <p>After completion of course students will be able to</p> <p>1.To understand foundational knowledge associated with the supply chain analytics</p> <p>2.To describe the various decision domains in Supply Chain Analytics such as location, network, inventory.</p> <p>3. To analyze the applications of analytics in supply chain.</p> <p>4. To understand core methods of supply chain analytics and modeling and learn how to apply them.</p> |
| SECC408 | OPTIONAL – D I- CORPORATE FINANCE | <p>Students of this course will be able to:</p> <p>1. To interpret approaches of capital structure decisions.</p> <p>2. To identify types of dividend and dividend policy</p> |
| SECC408 | OPTIONAL – D II- B2B MARKETING | <p>Students of this course will be able to:</p> <p>1. Discuss the importance of Environmental Analysis in B2B Marketing</p> <p>2. Illustrate the 4 P's of Marketing Mix Strategy in B2B Marketing</p> <p>3. Specify the need of Digital Marketing in the new context of B2B</p> |
| SECC408 | OPTIONAL – D III- ECONOMETRICS | <p>Students of this course will be able to:</p> <p>1. Understanding about the importance of Econometrics</p> <p>2. Interlinking Mathematics and Statistics for studying economic phenomenon</p> <p>3. Identify the problems in Econometric models</p> <p>4. Use Econometric models for forecasting</p> |



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| SECC408 | OPTIONAL – D IV- ORGANIZATIONAL DEVELOPMENT | Students of this course will be able to: 1. The Process of diagnosis of the implementation of OD. 2. OD interventions applied in the organization |
| SECC408 | OPTIONAL – D V-SPORTS MANAGEMENT | Students of this course will be able to: 1. Understand sports management. 2. Outline sports marketing plan 3. Apply management techniques effectively in sports event. 4. Identify careers in sports management |
| SECC408 | OPTIONAL – D VI- LOGISTICS & SUPPLY CHAIN MANAGEMENT | Students of this course will be able to: 1. Describe various logistics functions. 2. Formulate logistics framework for any organization. 3. Explain various supply chain management functions. 4. Create supply chain management framework for any organization |

2.6.2 Attainment of Programme outcomes and course outcomes are evaluated by the institution.

Describe the method of measuring the level of attainment of POs ,PSOs and COs in not more than 500

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**MBA – I SEM – I
PAPER – III
Managerial Economics
(Choice-Based Credit system)**

Course Objectives:

1. To introduce the students about managerial economics and its practices
2. To learn the production function and pricing practices
3. To aware about market structure and price determination under different market situations
4. To aware the students about capital budgeting and business cycles

Expected Skills Impartation (Through theory and Practical's):

1. Ability to measure and apply concept of elasticity of demand and demand forecasting
2. Ability to measure production cost and revenue of the business organization
3. Ability to explain and asses the product pricing system in different markets
4. Analytical skills about investment appraisal and capital budgeting

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| Marks : 80 | Total Hours of Teaching :60 | Theory : 40 | Practical : 20 |
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Syllabus Contents

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| Unit 1 : a) Theory | Introduction to Managerial Economics Meaning, features and Scope of Managerial Economics – types and determinants of Demand – Law of Demand –Elasticity of Demand – Price, Income and Cross elasticity of demand – Concept and methods of demand forecasting | 10 Hours |
| b) Practical | Numerical problems on elasticity and case studies | 5 Hours |
| Unit 2: a) Theory | Production, Cost and Revenue Analysis Nature and features of production function – Cobb Douglas Production function and its features – Law of variable proportion and Returns to Scale – Least cost factor combination – Cost concepts and its types – Short run and Long run cost curves – Revenue curves under different market structure | 10 Hours |
| b)Practical | Numerical problems on production, costs and revenue. Decision making problems. Drafting costs curves under different markets and economic circumstances. | 5 Hours |
| Unit 3 : a) Theory | Market Structure and Pricing Practices Classification of Market Structure – Price and Output determination under Monopolistic competition – Characteristics of Oligopoly – Kinked Demand curve – Price Leadership - Pricing Practices: Cost Plus Pricing-Multi Product Pricing - Dumping | 10 Hours |
| b) Practical | Numerical problems on price output determinations, pricing. Diagrams of price and output determinations under different market structures. Case studies. | 5 Hours |
| Unit 4 : a) Theory | Capital Budgeting Business Cycles and Asymmetric Information Concept and significance of capital budgeting – Methods of capital budgeting: NPV – IRR – ARR Concept and phrases of Business cycle: Hicks theory – Schumpeter's theory Asymmetric Information: Moral Hazards and Adverse Selection | 10 Hours |
| b) Practical | Numerical Problems on capital budgeting. Diagrams on business cycle. Case studies | 5 Hours |

Reference Books:

1. Mehata P. L. (2010) Managerial Economics- Analysis and Problems, Himalaya Publishing House, Mumbai



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| <ol style="list-style-type: none"> 2. Gupta G. S (2017). Managerial Economics, McGraw Hill Education , New York, NY USA 3. Paul Keat, Philip K Young, Steve Erfle ,(2014) , Managerial Economics, 7th Edition,, Pearson publication 4. Dominick Salvatore (2016) Managerial Economics Principles and Worldwide Applications Eighth Edition © Oxford University Press 5. Nick Wilkinson (2005) Managerial Economics A Problem Solving Approach, Cambridge University Press, New York 6. Varian, H.R. (1992) Microeconomic Analysis, WW Norton & Co. New York, 7. Michael R. Baye (2010) Managerial Economics and Business Strategy, McGraw-Hill Irwin, New York, NY USA 8. Varshney R. L. and Maheshwari K.L. (2005), Managerial economics text, Problem and Cases, Sultan Chand and Sons, Educational Publishers, New Delhi 9. Dwivedi D. N. (2002) Managerial Economics, 6th Edition, Vikas Publishing House Pvt. Ltd. New Delhi |
| <p>Suggested Additional Readings: National Council of Applied Economics Research <u>EBSCO Discovery Service</u> <u>ProQuest</u></p> |
| <p>Suggested Research Journal : Economic and Political Weekly Finance and Development IUP Journal of Managerial Economics</p> |

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| Master of Business Administration M.B.A. Part-I Semester-I Choice Based Credit System – (CBCS) Paper-IV Information Technology for Management | | | |
| Course Outcome: | After completion of course students will be able to - <ol style="list-style-type: none"> 1. Recognize different components of Information Technology. 2. Understand E-commerce models used in a business. 3. Analyze impact of E-banking on the business. 4. Design a database. | | |
| Expected Skill Impartion | <ol style="list-style-type: none"> 1. Technical Skills regarding IT infrastructure 2. Employability Skills regarding thorough knowledge of IT infrastructure | | |
| Marks: 80 | Total Hours of Teaching: 60 | Theory: 40 | Practical:20 |
| Syllabus contents | | | |
| Unit 1: a) Theory | Information Technology Definition, Components: Hardware, Software, Network: Types, Topology, Communication media, Overview of Internet, Intranet, Extranet, Need of website for organization, Applications of Internet for Management: E-CRM, E-SCM. Introduction to search engine, | | 10 Hours |
| b) Practical | Visit any organization and study their IT infrastructure along with different applications used by organization. | | 5 Hours |
| Unit 2: a) Theory | E-Commerce Introduction to E-Commerce: Defining Commerce; Benefits of E-Commerce; Components of E-Commerce; Types of E-Commerce; Role | | 10 Hours |



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| | of Internet and Web in E-Commerce; Technologies Used; Pre-requisites of E-Commerce; Scope of E-Commerce; Mobile Commerce: Overview of M-Commerce – Introduction to Protocol , Components of Mobile Commerce | |
| Practical | b) Compare different features of E-Commerce and M-Commerce applications of any popular organization (Amazon, Flipkart, Myntra etc.) | 5 Hours |
| Unit 3: a) Theory | E-Banking Electronic Banking: Introduction, Traditional Banking v/s E-Banking; Models for E-banking- Core Banking Solution (CBS), Features and subsystems of CBS; Advantages of E-Banking; Delivery channels, Limitations of E-Banking; Electronic Payment Systems: Prepaid and Postpaid Payment Systems (RTGS/NEFT/BHIM/E-cash),; National Payments Corporation of India; Services of NPCI. | 10 Hours |
| Practical | b) Identify how to send and receive money over UPI through any Mobile payment Systems like Google Pay, PayTm etc. | 5 Hours |
| Unit 4: a) Theory | Database Management System Database Management Systems (DBMS): Definition, Need, Features, Components, Component Architecture of database system, Data dictionary; Database schema, Data models- Relational Model, Network Model, Hierarchical Model; Normalization; Data Warehousing: Concept, Definition, Architecture of Datawarehouse. Data Mining: Definition, Introduction to Data Mining Tools, KDD process | 10 Hours |
| Practical | b) Design a Database for Bank Deposit System.. | 5 Hours |

Reference Books:

1. Introduction to Information Technology Turban, Rainer and Potter John Wiley & Sons, Inc. 2005
2. Introduction to Database System by Date, Eighth Edition, Pearson Education
3. E-Commerce Fundamentals and Applications - Henry Chan, Raymond Lee, Tharam Dillon, Elizabeth Chang, John Wiley & Sons, Inc. 2001
4. E-Commerce (concepts - Models – Strategies), C. S. V. Murthy, Himalaya Publishing House, 2002
5. Computer Fundamentals. B. Ram, New Age Publications, 2003
6. Data Mining Techniques, Arun K. Pujari, Universities Press, 2001

Suggested Additional Reading

ePGPathshala: Engineering and technology Subject: Computer Science
Paper Name: P-12 Web technology
URL: <https://epgp.inflibnet.ac.in/ahl.php?csrno=7>

ePGPathshala: Engineering and technology Subject: Computer Science
Paper Name: P-04 Database Management System
URL: <https://epgp.inflibnet.ac.in/ahl.php?csrno=7>

Suggested Research Journal

Journal of Internet Banking and Commerce ISSN: 1204-5357 <http://www.icommercecentral.com/>

Journal of Internet Banking and Commerce An open access Internet journal
(<http://www.arraydev.com/commerce/jibc/>)



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