

DEFENCE

| Progra mme | Course Code | Course Title | | Topic in the syllabus which has relevance to the developmental needs | | | POs, PSO's & COs |
|---------------|----------------|-----------------|---------|--|--------|--------------------|---------------------|
| | | | Local | National | Region | Global | |
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| | UADS1 | Defence | | Defense | | Defense | PO3 |
| | 11(A) | Mechani | | Mechanism | | Mechan | Socia |
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| | | India | | Armed | | the | comp |
| | | | | Forces | | Indian | etenc |
| | | | | | | Armed | e: |
| | | | | | | Forces | ~~ · |
| | | | | | | | CO4 : |
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| | LIAD01 | Deferrer | In dian | Indian | Indian | In dia a | tones |
| | UADS1 | Defence | Indian | Indian | Indian | Indian Missilas | COA |
| | 21(A) | Mechani | Navy | Missiles | Navy | Missiles | CO4: |
| | | sm of | | Indian Navy | | | Analyse the |
| | | India | | | | | coordination |



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| UADS1 11(B) | Key Concept of National Security | National Power | National Power | National Power | National Power | between civil and military authorities during emergencies CO5: Examine India's maritime security policies and the role of the Indian Navy. PO1 Research- Related Skills CO5: Students will be able to understand various key concept of national security |
|----------------|--|---|---|---|---|--|
| UADS1 21(B) | Key Concept of National Security | Convent ional Non- Convent ional Threats to India | Conventional Non- Conventional Threats to India | Convent ional Non- Convent ional Threats to India | Convent ional Non- Convent ional Threats to India | CO8: Explore the concept of human security and its relationship with |



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| | UADS2 | | Role of | Role of | Role of | Role of | national security. CO1 : |
|------|-----------------|-------------------------------|--|--|--|--|--|
| | 31 (A) | Military Geograp hy- I | Geograp hy In War | Geography In War | Geograp hy In War | Geograp hy In War | Analyze the specific arms and logistics required for effective warfare in different terrains. |
| SYBA | UADS 241 (A) | Military Geograp hy- II | | Sea Warfare | | Sea Warfare | PO4 : Disci plinar y Kno wled ge CO3: Examine the characteristi cs and roles of the Armored Corps in modern warfare. |
| | UADS 231(B) | Geopolit ics-I | Maritim e Boundar ies and Territori al sea(| Maritime Boundaries and Territorial sea(| Maritim e Boundar ies and Territori al sea(| Maritim e Boundar ies and Territori al sea(| PO2 Effective Citizenship and Ethics CO2: Evaluate |



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| | | | | | | how Geopolitics influences national security policies and geopolitical strategies. |
|-----------------|--------------------------------------|------------------------------------|--------------------------------|------------------------------------|------------------------------------|---|
| UADS 241 (B) | Geopolit ics II | Frontier and Boundar ies | Frontier and Boundaries | Frontier and Boundar ies | Frontier and Boundar ies | PO2 Effective Citizenship and Ethics CO1: Understand the concept and role of a buffer and landlocked state in geopolitics. |
| UADS 232 | Internati onal Relation s I | Realism Idealism Marxis m | Realism Idealism Marxism | Realism Idealism Marxis m | Realism Idealism Marxis m | PO1 Research- Related Skill CO5: Select methods of analysis appropriate to research in the student's chosen concentratio n and apply at least one |



| मार्थन केवला प्राप्त प्राप्ति केवला स्वार्थन प्राप्ति केवला सहाविद्यालय, सारामती | ।। सिध्दिरनेकान्तात्।। Anekant Education Society's TULJARAM CHATURCHAND COLLEGE of Arts, Science and Commerce, Baramati - 413102. | | | | |
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|---------------------------------------|-------------|---------------------------------------|----------------------|----------------------|----------------------|-------------|---|
| | | | | | | | of these methods to a understand question in international relations |
| | UADS 242 | Internati onal Relation s II | Power | Power | Power | Power | PO4 Disciplinary Knowledge CO2: Analyze case studies of successful and unsuccessful 1 diplomatic efforts. |
| | UADS 233 | India's Internal Security I | National Security | National Security | National Security | | PO6 Self- directed and Life-long learning CO1: Define and understand the concept of internal security, with a specific focus on India. |
| | UADS 243 | India's Internal | Cybercr ime | Cybercrime | Cybercr ime | Cybercr ime | PO6 Self- directed and |



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| | | Security II | | | | | Life-long learning |
|------|-----------------|--|----------------------|----------------------|----------------------|----------------------|--|
| | | | | | | | CO7: Analyze the coordination mechanisms among various security |
| | DEF- 3501(A) | India's National Security in 21st Century I | National security | National security | National security | National security | agencies. PO6 Self- directed and Life-long learning PO5 Personal and professional competence CO1: Stude nts will get throu gh know |
| ТҮВА | | | | | | | ledge of India' s intern al and |



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| DEF 3601(A) | India's National Security in 21st Century II | | India's nuclear policy | | | exter nal securi ty envir onme nt CO2 : Look East Polic y and Anal yze the geop olitic al factor s that influe nced the initiat ion of the polic y. CO4 : |
|----------------|---|--------------------|------------------------------|--------------------|--------------------|---|
| DEF 3501(B) | War and Contemp orary Warfare I | Nuclear Warfare | Nuclear Warfare | Nuclear Warfare | Nuclear Warfare | CO4: Stude nts will under stand how recen t chang |



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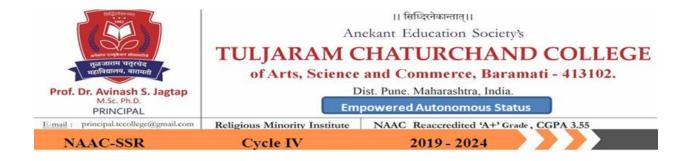
| DEF 3601(B) | War and Contemp orary | Cyber Warfare | Cyber Warfare | Cyber Warfare | Cyber Warfare | es in warfa re affect the utility of the force s in intern ation al relati ons. CO4 : Analyze the impact of |
|----------------|--|-----------------------------------|---|-----------------------------------|-----------------------------------|--|
| | orary Warfare II | | | | | impact of technology on military capabilities and strategic consideratio ns. |
| DEF 3502 | Internati onal and Regional Organiza tions I | | United Nation | | United Nation | CO2: Student will be able to understand the role of United Nations in global peace and security. |
| DEF 3602 | Internati onal and Regional | Internati onal Regiona 1 | International Regional Organization | Internati onal Regiona 1 | Internati onal Regiona l | CO7 : This course provides a comprehens |



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| | Organiza tions II | Organiz ation | | Organiz ation | Organiz ation | ive understandi ng of various regional and international organization s |
|--------------|-----------------------------|----------------------------------|------------------------------|----------------------------------|----------------------------------|--|
| DEF 3503 | Defence Economi cs I | Indian Econom ic System | Indian Economic System | Indian Econom ic System | Indian Econom ic System | CO4: Student will be able to explain and analyze the impact of arm race on the nation's economy. CO5: Student will be able to analyze the complex relations between defence and developmen ts. |
| DEF- 3603 | Defence Economi cs II | War Time Econom y | War Time Economy | War Time Econom y | War Time Econom y | CO2: Identify and understand the characteristi cs of a war- time economy. |





ECONOMICS

| Progra mme | Cours e Code | Course Title | - | • | s which has omental nee | | POs, PSO's & COs |
|--------------------------------------|-----------------|---|---|---|--|---|---|
| | | | Local | Regional | National | Global | |
| F.Y.B.A. (Sem I) Economi cs | UAEC 111 | Indian Econom y Problem s and prospect us - I | 1.Major issues of Develop ment in India 2.Measur es for Populatio n Control | 1.Major issues of Develop ment in India 2.Measur es for Populatio n Control | 1. Major issues of Develop ment in India 2.Measur es for Populatio n Control | 1.Major issues of Develop ment in India 2.Measur es for Populatio n Control | CO 1: Acqua inting studen ts with the proble ms of the econo my. |
| F.Y.B.C om. (Sem I) | UCBE 111 | Micro Economi cs I | 1.Major issues of Develop ment in India 2.Measur es for Populatio n Control | 1.Major issues of Develop ment in India 2.Measur es for Populatio n Control | 1. Major issues of Develop ment in India 2.Measur es for Populatio n Control | 1.Major issues of Develop ment in India 2.Measur es for Populatio n Control | CO 1: Acquainting students with the problems of the economy. PO1Research -Related Skills: |
| | UCBF 111 | Banking and Finance I | Technolo gy in Banking | Technolo gy in Banking | 1.Functio ns of Banks 2.Method s of Remittan ces 3.Functio ns of RBI | Technolo gy in Banking | CO1: To acquaint students with various types & functions of Banks and negotiable instruments and modern technology in banking. PO2 Effective |



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| | | | | | | | Citizenship and Ethics: |
|--|-------------|--------------------------------------|--|---|--|--|---|
| MA I (Sem I) Economi cs (PG) | PAEC 111 | Micro Economi cs I | Role of Governm ent in Organize d Society | Role of Governm ent in Organize d Society | 1.Role of Governm ent in Organize d Society 2. Issues in India's Federal finance | Role of Governm ent in Organize d Society | CO1: To appraise students with various concepts of public revenue and expenditure of the government. |
| | PAEC 112 | Public Finance I | Budget Allocatio n | Financial Reginal imbalanc e | WTO- Important Agreeme nts, Major developm ents since 1995 | WTO- Important Agreeme nts, Major developm ents since 1995 | CO1: To familiarize classical and modern theories of international trade. |
| | PAEC 113 | Internati onal Economi cs I | Debate on Inclusive Growth | Debate on Inclusive Growth | India's Experien ce in Planning | Comparis on of Indian Economy with the world in major economic Indexes | CO1: To understand the undercurrent s behind the policy making and its implementati on. |
| | PAEC 114 | Indian Econom y Policy I | 1.Functio ns of Banks 2.Method s of Remittan ces | Applicati on of credit flow | 1.Major issues of Develop ment in India 2.Measur es for | Modern banking | CO2: To appraise students with various concepts of Banking PO3 Social competence: |



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| 3.Functio | Populatio | |
|-----------|-----------|--|
| ns of RBI | n Control | |

| Progra | Cours | Course | Topic in the syllabus which has relevance to | | | | POs, PSO's |
|----------|--------|----------|--|------------|-----------|-----------|---------------|
| mme | e Code | Title | the develo | pmental ne | eds | | & COs |
| | | | Local | Regional | National | Global | |
| F.Y.B.A. | UAEC | Indian | 1.Major | 1.Major | 1. Major | 1.Major | CO 1: |
| (Sem II) | 121 | Econom | issues of | issues of | issues of | issues of | Acqua |
| Economi | | у | Develop | Develop | Develop | Develop | inting |
| cs | | Problem | ment in | ment in | ment in | ment in | studen |
| | | s and | India | India | India | India | ts with |
| | | prospect | 2.Measur | 2.Measur | 2.Measur | 2.Measur | the |
| | | us - II | es for | es for | es for | es for | proble |
| | | | Populatio | Populatio | Populatio | Populatio | ms of |
| | | | n Control | n Control | n Control | n Control | the |
| | | | | | | | econo |
| | | | | | | | my. |
| | | | | | | | PO2 |
| | | | | | | | Effective |
| | | | | | | | Citizenship |
| | | | | | | | and Ethics: |
| F.Y.B.C | UCBE | Micro | 1.Major | 1.Major | 1. Major | 1.Major | CO 1: |
| om | 121 | Economi | issues of | issues of | issues of | issues of | Acquainting |
| (Sem II) | | cs II | Develop | Develop | Develop | Develop | students with |
| | | | ment in | ment in | ment in | ment in | the problems |
| | | | India | India | India | India | of the |
| | | | 2.Measur | 2.Measur | 2.Measur | 2.Measur | economy. |
| | | | es for | es for | es for | es for | PO1Research |
| | | | Populatio | Populatio | Populatio | Populatio | -Related |
| | | | n Control | n Control | n Control | n Control | Skills: |
| | UCBF | Banking | Technolo | Technolo | 1.Functio | Technolo | CO1: To |
| | 121 | and | gy in | gy in | ns of | gy in | acquaint |
| | | Finance | Banking | Banking | Banks | Banking | students with |
| | | II | | | 2.Method | | various types |
| | | | | | s of | | & functions |
| | | | | | | | of Banks and |



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| | | | | | Remittan ces 3.Functio ns of RBI | | negotiable instruments and modern technology in banking. PO2 Effective Citizenship and Ethics: |
|--|-------------|---------------------------|---|---|--|---|--|
| MA I (Sem II) Economi cs (PG) | PAEC 121 | Micro Economi cs II | Role of Governm ent in Organize d Society | Role of Governm ent in Organize d Society | 1.Role of Governm ent in Organize d Society 2. Issues in India's Federal finance | Role of Governm ent in Organize d Society | CO1: To appraise students with various concepts of public revenue and expenditure of the government. PO7 Environment and Sustainabilit y: PO8 Critical Thinking and Problem solving: |
| | PAEC 122 | Public Finance II | Budget Allocatio n | Financial Reginal imbalanc e | WTO- Important Agreeme nts, Major developm ents since 1995 | WTO- Important Agreeme nts, Major developm ents since 1995 | CO1: To familiarize classical and modern theories of international trade. PO1 Research- Related Skills: |



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| PAEC | Internati | Debate | Debate | India's | Comporis | CO1: To |
|------|-----------|------------------|-----------|-----------|----------|---------------|
| | | | | | Comparis | |
| 123 | onal | on | on | Experien | on of | understand |
| | Economi | Inclusive | Inclusive | ce in | Indian | the |
| | cs II | Growth | Growth | Planning | Economy | undercurrent |
| | | | | | with the | s behind the |
| | | | | | world in | policy |
| | | | | | major | making and |
| | | | | | economic | its |
| | | | | | Indexes | implementati |
| | | | | | | on. PO6 |
| | | | | | | Self-directed |
| | | | | | | and Life-long |
| | | | | | | learning: |
| | | | | | | PO4: |
| | | | | | | Disciplinary |
| | | | | | | Knowledge: |
| | | | | | | PO5 Personal |
| | | | | | | and |
| | | | | | | professional |
| PAEC | Indian | 1.Functio | Applicati | 1.Major | Modern | 1 |
| 124 | Econom | ns of | on of | issues of | banking | CO2: To |
| 121 | y Policy | Banks | credit | Develop | builking | appraise |
| | II | 2.Method | flow | ment in | | students with |
| | 11 | s of | 110 W | India | | various |
| | | Remittan | | 2.Measur | | concepts of |
| | | | | | | Banking |
| | | ces 2 Eurotia | | es for | | PO3 Social |
| | | 3.Functio | | Populatio | | competence: |
| | | ns of RBI | | n Control | | * |



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|-------------|----------------|-----------------|--|--------------------|--------------------|----------------------|----------------------|
| amme | Coue | The | Local | Regional | National | Global | COs |
| S.Y.B. | ECOGE | Bankin | 2.2 | 4 .1 | 1.2 | 3.4 | CO6. |
| А. | N2301 | | ^{2.2} Methods | 4.1 Welfare | Evolution | Modern | Students |
| A. Econo | IN2301 | g & Financ | of | Economic | | | will be |
| | | | Remittan | | of Banking | Technology | |
| mics | | e | ces – | s 3.1 | in India 1.3 | – Concept of ATM, | able to |
| | | | Demand | | 1.5 Structure | Credit | Analyze the |
| | | | Draft, | Meaning and | of Indian | | performan |
| | | | Bankers | Definition. | Banking | Card, Debit Card, | ce of Non- |
| | | | | 3.2 | U | Tele | |
| | | | Cheque, Mail | | System 2.5 | | Banking financial |
| | | | | Pigou's Welfare | 2.3 Nationaliza | Banking, Net | institution |
| | | | Transfer, Telegrap | | tion of | | s and the |
| | | | hic | Economic | Commercia | Banking & Core | measures |
| | | | Transfer, | s 3.3 Social | l Banks – | Banking. | for NBFC |
| | | | Electroni | Welfare | Achieveme | Daliking. | given by |
| | | | c Funds | Function. | nt and | | RBI. |
| | | | Transfer. | 3.4 | Failures. | | кы. СО7. |
| | | | Transfer. | Condition | 2.6 | | Understan |
| | | | | s of Pareto | Banking | | d and |
| | | | | Optimality | Reforms | | remember |
| | | | | Optimanty | after 1991 | | the basics |
| | | | | | | | of Indian |
| | | | | | | | Financial |
| | | | | | | | System |
| | | | | | | | with the |
| | | | | | | | help of |
| | | | | | | | recent |
| | | | | | | | changes |
| | | | | | | | being |
| | | | | | | | adopted. |
| | | | | | | | PO6 Self- |
| | | | | | | | directed |
| | | | | | | | and Life- |
| | | | | | | | long |
| | | | | | | | learning: |



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| | | | 3.7 Practical and Applicati ons - Case studies on productio n functions and costs of single product and multi product firms. | Schedules, Graphs & Equations. 4.1 Barter | - | | PO7 Environm ent and Sustainab lity: PO8 Critical Thinking and Problem solving: CO1. Understan d th basics o national income accountin g. CO2. Understa nd th causes and conseque nces o business cycles. int era st rat es. |
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| | L2303 | Econo mics I | | Syste m and Evolut | and institutiona l set up of | Keynsian Theory of | Apply basic internatio |



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| | | | ion | National | Employme | nal trade |
| | | | and | Income | nt | and |
| | | | Types | accounting | | finance |
| | | | of | in India | | concepts |
| | | | Money | | | to global |
| | | | | | | pricing |
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| | | | | | | profession |
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| ECOGE | Cooper | 2.2 | 2.1 Role | 1.1 History | 1.3 | ai CO 4 |
| N2401 | ation | 2.2 Problems | of Co- | of Co- | | CO 4 Global |
| 112401 | ation | of Co- | operative | operative | | |
| | | | | movement | | Context: |
| | | operative | agricultura l | in India | - | By |
| | | Agricultu | 1 | in maia | | analyzing |



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| of Arts, Science and Commerce, Baramati - 413102. | a basis graphere abused/a | TULJARAM | CHATURCHAND COLLEGE | | | | |
| diast weight for the state of Arts, Science and Commerce, Baramati - 413102. | | An | ekant Education Society's | | | | |
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| | al | Marketing | | empirical |
|---|---------------|----------------------|--|------------------|
| | Aarketin | | | models, |
| g | | 2.2 | | students |
| | .3 | Problems | | will |
| | Aeasures | of Co- | | understand |
| | o solve | operative | | how |
| | he | Agricultur | | countries |
| 1 | roblems | al | | like Japan |
| | of Co- | Marketing | | and China |
| | perative | 2.3 | | have |
| | gricultur | | | shaped |
| | 1 Aarketin | Measures to solve | | their |
| | | the | | economic |
| g | .4 | problems | | trajectories. |
| | Iousing | of Co- | | developme |
| | Co- | operative | | nt. |
| | perative | agricultura | | |
| S | - | l | | PO2 Effective |
| | Progress, | Marketing | | Citizenshi |
| | Problems | | | |
| | nd | 2.4 State | | p and Ethics: |
| m | neasures. | Trading | | PO3 |
| | | Co- | | Social |
| | | operation. | | competen |
| | | 3.4 | | ce: |
| | | NABARD | | PO4 |
| | | _ | | Disciplina |
| | | Objectives | | ry |
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| ECOSP | Micro | 1.7 | 1.2 | 1.2 | 4.1 Welfare | CO4. |
|-------|---------|------------|------------------------------|----------------|-------------|--------------|
| L2402 | Econo | Practical | Monopoly | Monopoly | | Understand |
| | mics II | and | Market - | Market - | 3.1 | factors that |
| | .~ | Applicati | Concept, | Concept, | Meaning | contribute |
| | | ons: Case | Characteri | Characteris | and | to and |
| | | studies on | stics and | tics and | Definition. | detract |
| | | product | short and | short and | | from long- |
| | | differenti | long run | long run | - | term |
| | | ation, | 0 | 8 | Economics | economic |
| | | , | Equilibriu | Equilibriu | 3.3 Social | growth. |
| | | pricing | m, Price | m, Price | Welfare | CO5. |
| | | policy by | Discrimin | Discriminat | Function. | Apply |
| | | firm | ation – | ion – | 3.4 | economic |
| | | | Concept | Concept | Conditions | reasoning |
| | | | and | and Types. | of Pareto | to |
| | | | Types. | 1.3 | Optimality | understand |
| | | | 1.3 | Duopoly – | | the |
| | | | Duopoly – | Concept, | | operation |
| | | | Concept, | Characteris | | of an |
| | | | Characteri | tics | | economy. |
| | | | stics | 1.4 | | CO6. |
| | | | 1.4 | Oligopoly | | Understan |
| | | | Oligopoly | - Concept, | | d the |
| | | | Concept, | Characteris | | interaction |
| | | | Characteri | tics. | | between |
| | | | stics. | 1.5Monopo | | the |
| | | | 1.5Monop | listic | | domestic |
| | | | olistic | Competitio | | economy |
| | | | Competiti | n - | | and the |
| | | | on - | Concept, | | rest of the |
| | | | Concept, | Characteris | | world. |
| | | | Characteri | tics, short | | PO1 |
| | | | stics, short | & long run | | Research- |
| | | | & long | F 111 1 | | Related |
| | | | run | Equilibriu | | Skills: |
| | | | F 1111 1 | m, Selling | | |
| | | | Equilibriu | cost- | | |
| | | | m, Selling | concept. | | |



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| | | cost- concept. 1.6 Perfect Competiti on – Concept, Characteri stics, Price determinat ion in short | Concept, Characteris tics, Price determinati on in short | | |
|----------------|---------------------------|--|---|---|--|
| ECOSP L2403 | Macro Econo mics II | 2.1 Meaning and Types of Inflation 2.2 Causes and Effects of Inflation | 3.1 Meaning and Features of Trade Cycles 3.2 Phases of Trade Cycles 3.3 Policy and Control of Trade Cycles- | 4.3 Principles and Effects of Taxation | CO3. Understan d the roles of fiscal and monetary policy in business cycle. PO2 Effective Citizenshi p and Ethics: PO3 Social competen ce: PO4 Disciplina ry Knowledg e: PO5 Personal and |



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| T.Y.B. | ECOGE | Econo | 1 Maion | 1 Maior | 1 Maion | 1 Maior | CO |
| 1.1. Б . А. | N3501 | Econo. Dev.t | 1.Major issues of | 1.Major issues of | 1. Major issues of | 1.Major issues of | 1: |
| A. Econo | N3301 | | | | | | |
| | | and Dian J | Develop | Developm | Developme | Developme | Acq |
| mics | | Plan. I | ment in | ent in | nt in India | nt in India | uai |
| | | | India | India | 2.Measures | 2.Measures | ntin |
| | | | 2.Measur | 2.Measure | for | for | g |
| | | | es for | s for | Population | Population | stud |
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| | | | | | | | ce: |
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| | ECOGE | Interna | Technolo | Technolog | 1.Functions | Technology | CO1: To |
| | N3502 | tional | gy in | y in | of Banks | in Banking | acquaint |
| | | Econo | Banking | Banking | 2.Methods | | students |
| | | mics I | Ũ | U U | of | | with |
| | | | | | Remittance | | various |
| | | | | | S | | types & |
| | | | | | | | functions |



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| | | | | 3.Functions of RBI | | of Banks and negotiable instrument s and modern technolog y in banking. PO2 Effective Citizenshi p and Ethics: |
|----------------|------------------------------------|--|--|---|--------------------------|---|
| ECOGE N3503 | Eleme. Quan. Tech. que I | 1.Basic Economi c Problems 2. Revenue and Cost Concepts | 1.Major issues of Developm ent in India 2.Measure s for Population Control | 1. Major issues of Developme nt in India 2.Measures for Population Control | Technology in Banking | CO2: To expose Students of Arts to basic Micro Economic s concepts and inculcate an analytical approach to the subject matter. |
| ECOGE N3501 | Econo. Dev.t and Plan. II | Technolo gy in Banking | Technolog y in Banking | 1.Functions of Banks 2.Methods of Remittance s | Technology in Banking | PO1 Research- Related Skills: CO1: To acquaint students |



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| | | | | | 3.Functions | | with |
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| | | Econo | Develop | Developm | Developme | Developme | Citizenshi |
| | | mics II | ment in | ent in | nt in India | nt in India | p and |
| | | | India | India | 2.Measures | 2.Measures | Ethics: |
| | | | 2.Measur | 2.Measure | for | for | PO3 |
| | | | es for | s for | Population | Population | Social |
| | | | Populatio | Population | Control | Control | competen |
| | | | n Control | Control | | | ce: |
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| etwas under understanding etwasmith unterview المعالم المعالية Prof. Dr. Avinash S. Jagtap M.Sc. Ph.D. | TULJARAM CHATURCHAND COLLEGE of Arts, Science and Commerce, Baramati - 413102. Dist. Pune. Maharashtra, India. | | | | | |
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| | ECOGE N3503 | Eleme. Quan. Tech. que II | 1.Major issues of Develop ment in India 2.Measur es for Populatio n Control | 1.Major issues of Developm ent in India 2.Measure s for Population Control | Control | Role of Governmen t in Organized Society | Environm ent and Sustainabi lity: PO8 Critical Thinking and Problem solving: CO1: To acquaint students with various types & functions of Banks and negotiable instrument s and modern technolog y in banking. |
| SYBco m | COMB E2303 | Macro Econo mics I | | | 1.1 Meaning, Nature and Scope of Macro Economics | 4.1 Definitions and Evolution of Money | CO3. Understan d the roles of fiscal and monetary policy in |



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| | Pankin | 2.1 Micro | 1.2 Significanc e and Limitations of Macro Economics 2.1 Various Concepts of National Income | 4.2 Functions of Money Deman d for Money 4.3 Supply of Money and Multiple Credit Creation by Commercia 1 Banks | fighting recessions and inflation. |
|---------------|---------------------------|--|---|--|---|
| COMB F2306 | Bankin g and Fin. I | 2.1 Micro finance. 2.2 Payment banks. 2.3 Small finance Bank. | 1.1 Public sectors Banks (SBI & Nationalize d Banks) Backgroun d, Mergers Banks. 1.2 Private Sectors Banks (Old & New) - Classificati on & Features. 1.3 Cooperativ e Banks (SCB, DCCB, PACS) - Features. | 3.1 NPA- Concept, Classificati on and Criteria. 3.2 Identificati on and Causes of NPA. 3.3 Impact of NPA. 3.4 Manageme nt of NPA. | CO3. Students will be able to understan d the Structure of Indian Banking and financial market as well PO2 Effective Citizenshi p and Ethics: PO3 Social competen ce: PO4 Disciplina |



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| | | | 1.4 Foreign | | ry |
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| | | | Functions. | | PO5 |
| | | | 4.3 | | Personal |
| | | | Functions | | and |
| | | | of RBI | | profession |
| | | | | | al |
| COMB | Macro | | 2.1 | 1.1 | CO5. |
| E2403 | Econo | | Meaning | Meaning | Develop |
| | mics II | | and Types | and | their |
| | | | of Inflation | Concept of | understan |
| | | | 2.2 Causes | Value of | ding and |
| | | | and Effects | Money | expertise |
| | | | of Inflation | | in various |
| | | | 4.3 Types | | matters |
| | | | of Taxation | | relating to |
| | | | 4.4 | | operations |
| | | | Principles | | of a |
| | | | and Effects | | commerci |
| | | | of Taxation | | al bank. |
| | | | | | |
| COMB | Bankin | 1.1 | 2.2 | 4.1 Basel | CO1. The |
| F2406 | g and | Financial | Structure | Norms –II | main |
| | Fin. II | Inclusion- | of | and III | outcome |
| | | Concept | Developme | | of this |
| | | and Need. | nt Banks in | | course is |
| | | 1.2 | India. | | acquaint |
| | | Various | 2.3 Role of | | students |
| | | Initiatives | developme | | with |
| | | for | nt Banks in | | various |
| | | financial | India. | | aspects of |
| | | inclusion. | 2.4 | | financial |
| | | 1.3 Role | Progress | | system, |
| | | of | and | | role |
| | | Financial | Limitations | | ,structure, |
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| | | | | 1.4 Challenge s and Opportuni ties of Financial Inclusion | nt Banks in India. | | current problems faced by the banking sector in India PO2 Effective Citizenshi p and Ethics: PO3 Social competen ce: PO4 Disciplina ry Knowledg e: PO5 Personal and profession al |
|---------------|---------------|------------------------------|---|---|-----------------------|--|--|
| T.Y. B Com | COMIE 3503 | Interna tional. Eco. I | Role of Governm ent in Organize d Society | Role of Governme nt in Organized Society | Governmen | Role of Governmen t in Organized Society | CO1: To appraise students with various concepts of public revenue and expenditur e of the governme |



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| | | | | | | nt. PO2 Effective Citizenshi p and Ethics: |
|---------------|---------------------------|---|---|--|---|--|
| COMB F3505 | Bankin g & Fin. III | 1.Major issues of Develop ment in India 2.Measur es for Populatio n Control | 1. Major issues of Developm ent in India 2.Measure s for Population Control | WTO- Important Agreement s, Major developme nts since 1995 | WTO- Important Agreement s, Major developme nts since 1995 | CO1: To familiariz e classical and modern theories of internatio nal trade. PO2 Effective Citizenshi p and Ethics: |
| COMB F3506 | Bankin g & Fin. IV | Debate on Inclusive Growth | Debate on Inclusive Growth | India's Experience in Planning | Compariso n of Indian Economy with the world in major economic Indexes | CO1: To understan d the undercurr ents behind the policy making and its implement ation. PO4 Disciplina ry Knowledg e: PO5 Personal |



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| 3603 | tional Eco. II | issues of Develop ment in India 2.Measur es for Populatio n Control | issues of Developm ent in India 2.Measure s for Population Control | issues of Developme nt in India 2.Measures for Population Control | issues of Developme nt in India 2.Measures for Population Control | Disciplina ry Knowledg e: PO5 Personal and profession al CO1: To understan d the undercurr ents behind the policy making and its implement ation. |
| COMB F3605 | Bankin g & Fin. V | 1.Major issues of Develop ment in India 2.Measur es for Populatio n Control | 1.Major issues of Developm ent in India 2.Measure s for Population Control | Major issues of Developme nt in India Measures for Population Control | 1.Major issues of Developme nt in India 2.Measures for Population Control | PO4 Disciplina ry Knowledg e: PO5 Personal and profession al. CO1: To understan d the undercurr |



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| | | | | | | | implement ation. |
| | COMB | Bankin | 1.Major | 1.Major | 1. Major | 1.Major | PO4 |
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| | | | India 2 Maggur | India 2 Maggura | 2.Measures | 2.Measures | e: |
| | | | 2.Measur es for | 2.Measure s for | for Population | for Population | PO5 Personal |
| | | | Populatio | Population | Control | Control | and |
| | | | n Control | Control | | | profession |
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| | FC072 | 24 | | | 10 0 | | ation. |
| MA II Econo | ECO53 01 | Macro Econo | | | 1.2 Gross Domestic | | PO4 Disciplina |
| mics | 01 | mics I | | | Product, | | ry |
| (PG) | | | | | Gross | | Knowledg |
| | | | | | National | | e: |
| | | | | | Product, | | PO5 |
| | | | | | Net | | Personal |
| | | | | | Domestic | | and |



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| | | | | | 1.5. | | CO1: To |
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| | | | | | Model | | ation. |
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| | ECO53 | Econo | 1.1 Econ | 2.2 | 1.3 Charac | .4 Mea | CO 3 |
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| | Growth | Grow | to | s of an | Developme | s Growth |
|--|---------|----------|------------|-------------|--------------|--------------|
| | & | th | Economic | Underd | nt- Physical | |
| | Develo | and | Developm | evelop | Quality of | |
| | pment I | Deve | ent- | ed | Life Index; | |
| | 1 | lopm | Vicious | econo | Human | will grasp |
| | | ent | Circle of | my | Developme | the |
| | | 1.2 Econ | Poverty, | 4.4 The | - | intricacies |
| | | omic | Various | Doctrine of | GHDI, | of the New |
| | | Grow | Constraint | Balanced | Gross | Endogenou |
| | | th | S | and | National | s Growth |
| | | and | | Unbalance | Happiness | Theory, |
| | | Inco | | d Growth | and Indices | distinguishi |
| | | me | | | | ng between |
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| | | n- | | | nt- MDGs | by Arrow, |
| | | Kuzn | | | and SDGs | Lucas, and |
| | | ets | | | | Romar. |
| | | Нуро | | | | PO2 |
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| ECO53 | Agribu | 1.2 Role | 1.4 | 4.1Introduc | |
|-------|--------|------------|-------------|----------------|--------------|
| 03 | siness | of | Agricultur | tion: Lewis | |
| | Eco I | agricultur | e as an | theory of | |
| | | e in | | labor | |
| | | Economi | Complem | 4.2 | |
| | | с | entary | Mellor's | |
| | | Develop | between | and | |
| | | ment, | agriculture | Boserup's | |
| | | 1.3 | and | Modl of | |
| | | Changing | Industry. | Agricultura | |
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| | | agricultur | | Developme | |
| | | e in | | nt, | |
| | | economic | | Schultz's | |
| | | developm | | transformat | |
| | | ent, | | ion of | |
| | | ciit, | | traditional | |
| | | | | agriculture. | |
| ECO53 | Resear | | | 4.1 Global | CO 3 |
| 04 | ch | 3.1Classif | | Information | |
| | Metho | ication | | | Analysis: |
| | dology | and | | surfing, | The course |
| | | Tabulatio | | | should |
| | | n. | | g, blogs, | |
| | | 3.2 | | mails. | students |
| | | Graphs | | 4.2 Use of | with the |
| | | and | | | skills to |
| | | Diagrams | | 4.3 | analyze |
| | | | | Presentatio | agricultural |
| | | 3.3 | | n – (| markets, |
| | | Measures | | Drawing on | |
| | | of Central | | U | factors |
| | | Tendencie | | Power | affecting |
| | | s. Mean, | | Point | price |
| | | median | | 4.4Comput | volatility, |
| | | mode | | erized data | |
| | | 3.4 | | processing- | trends, and |
| | | Dispersio | | _ | the impacts |



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| n & | | Excel, | of |
| Correlati | | SPSS. | governmen |
| on. | | 4.5 | t policies |
| 3.5 | | Stages of | and |
| Hypothes | | report | internation |
| is Testing | | writing. | al trade. |
| Chi | | | CO 4 |
| Square | | | Agribusin |
| test | | | ess Value |
| | | | Chain: |
| | | | Students |
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| | | | various |
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| ECO54 01 | Macro Econo mics II | DefinitionMusofMoney,Sor | | and the economic implicatio ns of these interaction s. PO4 Disciplina ry Knowledg |
|-------------|---------------------------|--|---|---|
| | | functionssimof money,assconcept ofs,liquidity.DeMeasurests ofof MoneyMuSupply3.41.2AutLiquidityofmeasurespowaccordingmortoReddyResCommitteBaneeReport.anal1.31.3TheModebateSuprelating to3.5theDedefinitionsouof moneyInfDePulInfcos | nplifying numption terminan of Money altiplier onomy High vered ney, erve ak's lysis of ney pply. finition arces of lation- mand ll lation- st push | Knowledg e: PO5 Personal and profession al competen ce: CO1: To understan d the undercurr ents behind the policy making and its implement ation. |
| | | 3.6 Un | lation employ ent and | |



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| | | | Inflation- Phillips | |
|-------|--------|-------------|------------------------|-------------|
| | | | Curve | |
| ECO54 | Econo | 2.3 | | CO 4 |
| 02 | mic | Dualistic | | Agribusin |
| | Growth | Theories- | | ess Value |
| | & | Social, | | Chain: |
| | Develo | Technolog | | Students |
| | pment | ical and | | should |
| | II | Financial | | gain |
| | | Dualism | | insight |
| | | 2.4 | | into the |
| | | Dependen | | various |
| | | cy Theory | | stages of |
| | | of | | the |
| | | Underdev | | agribusine |
| | | elopment | | ss value |
| | | 4.1 | | chain, |
| | | Changes | | including |
| | | in the Role | | productio |
| | | of | | n, |
| | | Agricultur | | processing |
| | | e during | | , |
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| | | process of | | and |
| | | Economic | | distributio |
| | | Developm | | n. They |
| | | ent | | should |
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| | | Population | | d how |
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| ECO54 03Agribu siness Eco II1.1Introduc4.1CO103siness Eco IIEco IIProblems of agriculture agriculture 1.2Narket of Access, agriculture Domesic finance, 4.2Agricultu ral students bould taken to Subsidies, develop a improveEconomic t.2Students should taken to subsidies, develop a improve1.1Narket agriculture taken to of agriculture e of Indian finance, Agriculture agriculture taken to subsidies, develop a improveImport tother taken to subsidies, develop a improve ding of the agriculture agriculture taken to subsidies, develop a improve ding of the fundament finance, agriculture taken to subsidies, develop a improve ding of the agriculture taken to subsidies, develop a improve ding of the agriculture agriculture tiberalizati concepts finance, of agriculture, taken to agricultura taken the agriculture, taken to agriculture taken the agriculture, taken taken the agriculture, taken | | | | | | ns of these interaction s. PO2 Effective Citizenshi p and Ethics: |
|---|--|--------|--|---|--|---|
| Scheme, ion, Cooperativ market | | siness | | tion: Problems of agriculture finance, 1.2 Measures taken to improve credit flow of agriculture finance 1.3 Sources of agriculture finance, Commercia I Bank, 1.4 Regional Rural Bank, NABARD, Lead Bank Scheme, | Introductio n, Market Access, Domestic 4.2 Support, Export Subsidies, 4.3 Export and Import Performanc e of Indian Agriculture , 4.4 Economic Liberalizati on and its impact on agriculture, WTO ministerial meeting and | Understa nding Agricultu ral Economic s: Students should develop a strong understan ding of the fundament al principles and concepts of agricultura 1 economics , including supply and demand, price determinat ion, |



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| प्रस्ता रप्यस्था गाम्प्रते तुद्धजाराम चतुरचेव महाविदालय, बारामती Prof. Dr. Avinash S. Jagtap | of Arts, Science | CHATURCHAND COLLEGE and Commerce, Baramati - 413102. Dist. Pune. Maharashtra, India. |
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| Structure | and the |
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| and RBI. | role of |
| 3.1 | agriculture |
| Introductio | in the |
| n, Causes | overall |
| and Effects | economy. |
| of | 2 CO 3 |
| fluctuations | Market |
| in | Analysis: |
| Agriculture | The course |
| prices | should |
| 3.2 | equip |
| Agriculture | students |
| price | with the |
| policy in | skills to |
| India – | analyze |
| need, | agricultura |
| objectives, | 1 markets, |
| and | including |
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| nt. | affecting |
| | price |
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| | trends, and |
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| | al trade. |
| | processing |
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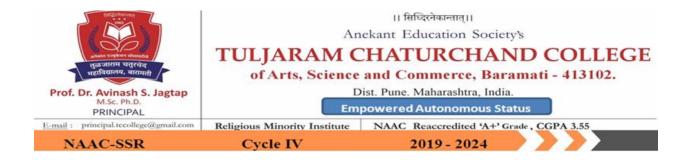
| | | | | | | the economic implicatio ns of sustainabl e farming practices and the use of resources. |
|-------------|---------------------------|---|--|--|--|---|
| ECO54 04 | Moder n Bankin g | 1.1 Nature, structure, Functions and role of financial system in economic developm ent. | 1.4 Balance sheet of a commerci al bank. | 2.6 Reserve Bank of India 2.3 Changing trends in banking sector since 1991. 2.5 Foreign banks in India and their impact on Indian banking sector 3.1Meanin g , Types and features of Non- banking Financial | 4.3 Forms of foreign capital – Foreign Direct Investment [FDI], Pros and cons for FDI in India, 4.4 Regulation of foreign investments – Foreign Investment s Promotion Board 4.5 Working and role of IMF, IBRD, IDA, IFC | CO2. They will be able to describe fundament al concepts behind modern e- banking/m obile banking technologi es. |



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| | | Institutions | |
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| | | | |
| | | in India- | |
| | | 3.2 Role | |
| | | of the Non- | |
| | | banking | |
| | | Financial | |
| | | Institutions | |
| | | in India- | |
| | | 3.4 | |
| | | Functions | |
| | | of Non- | |
| | | banking | |
| | | Financial | |
| | | Institutions | |
| | | in India | |





English

| Progra mme | Course Code | Course Title | - | the syllabus the develor | | | POs, PSO's & |
|-----------------------------------|-------------------------------|------------------------|---|---|---------------------------------|---------|---|
| | | | Local | National | Regional | Global | COs |
| F.Y.B.A [semeste r-1] | UAEN 111 | Compulso ry English | Grammar | Grammar | Grammar | Grammar | CO1) Students learn grammar effectively |
| | Short Story | | | The Child - Premcha nd | The Child - Premcha nd | | PO1) Students are developed for an integrated view about language and literature |
| F.Y.B.C OM [semeste r-1] | UCFE1 11 Short Story | | The Secret of Work- Swami Vivekana nda | The Secret of Work- Swami Vivekana nda | | | PO2) Equipped with literary sensibilities ,the students will stay ahead in the s |



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| EN(\$19mm) | | ।। सिध्दिरनेकान्तात।। |

| S.Y.B.A CO ry English | | Sonnet 116- William Shakespe are | PO3) The students will get genuine command over the English |
|--|---|---|---|
| S.Y.B.A CO ry English [semeste 2301 | | | language, which can be used by them for communica tions at all levels. |
| Poetry | The quality of mercy – William Shakesp eare | The quality of mercy – William Shakesp eare | CO2) Student understands the literary merit, beauty and creative use of language. they get acquainted with the literary genres of prose and poetry |
| Introduc Introduc tion by | | | |



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| | | | Kamla Das | Kamla Das | Kamla Das | | PO4) Student understands the literary merit, beauty and creative use of language. they get acquainted with the literary genres of prose and poetry |
|------|-------------|--|--------------|--------------|--|--|---|
| M.AI | PAEN 111 | English Literature from 1550- 1798 | | | The Spanish Tragedy by Thomas Kyd | The Spanish Tragedy by Thomas Kyd | PSO1) The students get familiar with the major movements and figures of English Literature |
| | | | | | Othello by William Shakesp eare | Othello by William Shakesp eare | CO3) The students develop the literary sensibility and emotional response to the literary text and the |



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| M.A. I | PAEN 112 | English Literature from 1798 to 2000 | | Waiting for Godot | Waiting for Godot | learn to appreciate the literary text. PSO2) To instill values and develop human concern in students through exposure to literary texts. |
|--------|-------------|---|---------------|-------------------------|-------------------------|--|
| | | | | | Lord of the Flies | CO4) To expose students to the artistic and innovative use of language employed by the writers. |
| M.A. I | PAEN 111 | Contempo rary Studies in English Language | Phonolo gy | Phonolo gy | Phonolo gy | CO5) The learn theoretical perspective s and also learn how to apply the acquired linguistic skills in |



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| M.A. IPAEN 114Literary Criticism and TheoryPoetics by AristotlePoetics by AristotlePoetics by AristotlePoetics by AristotlePoetics by AristotleM.A. IIENGEnglishTheoriesTheoriesTheoriesTheoriesStateM.A. IIENGEnglishTheoriesTheoriesTheoriesTheoriesTheories | | | | | Morphol ogy | Morphol ogy | real life situations PSO3) Students understand the basic tools essential for systematic study of language. |
|--|---------|-------------|---------------------|----------------|--|--|---|
| N.A. IIENGEnglishTheoriesTheoriesTheoriesTheoriesTheoriesTheories | M.A. I | | Criticism and | by | by | by | CO6) To enable the students think critical about the literary trends in English |
| | | | | | n and the Individu al Talent by T.S. Eliot | n and the Individu al Talent by T.S. Eliot | develop students analytical skills in interpreting literary |
| 5402 Language of of of of df | M.A. II | ENG 5402 | English Language | Theories of | Theories of | Theories of | |



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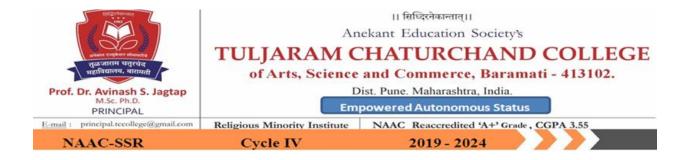
| | | and Literature Teaching | Languag e Learning | Languag e Learning | Languag e Learnin g S English in India | CO8)The students become aware in both the artistry and utility of the English language through the study of literature and basic language skills CO9)The students become competent in literary and linguistic skills. |
|---------|-------------|-------------------------------|--------------------------|---|--|---|
| M.A. II | ENG 5403 | Drama in English | | Romeo and Juliet by Shakesp eare Dr. | Romeo and Juliet by Shakesp eare Dr. | CO10) They learn the dramatic structure, literary devices and analyze its effect on the readers PO5) |
| | | | | Dr. Faustus | Dr. Faustus | r03) |



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| | | | | | | It enables students analyze literature and drama by using appropriate theoretical, historical and cultural apparatus. |
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| M.A. II | ENG 5403 | American Literature | | Slave Narrativ es | Slave Narrativ es | PO6) To introduce students to slave narratives in American Literature |
| | | | | The Turn of the Screw | The Turn of the Screw | |
| | | | | | | |





GEOGRAPHY

| Progra mme | Cours e | Course Title | - | ne syllabus y omental nee | | elevance to | POs, PSO's & COs |
|---------------|-------------|-------------------------------------|---------------------------------|------------------------------|-----------------------------|-----------------------------|--|
| | Code | | Local | National | Regional | Global | |
| | GEO 1101 | Physical Geograp hy | Global Warming | Global Warming | Global Warming | Global Warming | CO-1. Students will able to understand the causes and strategies to face issues of global warming |
| FYBA | GEO 1201 | Human Geograp hy | Migration and its Effects | Populatio n Explosion | Populatio n Explosion | Populatio n Explosion | CO-1. Students will be able to understand the causes and strategies to tackle with migration problem CO- 2.Studemts can develop an d implement different policies to control population explosion. |
| SYBA | GEO2 301 | Environ ment Geograp hy- I | Ecosyste m, Pollution | Ecosyste m, Pollution | Ecosyste m, Pollution | Ecosyste m, Pollution | CO-1 Student s should be able |



| ्राहीवदालय, पारामती प्रकारिया प्रतृत्वेत् प्रहारियालय, पारामती Prof. Dr. Avinash S. Jagtap | TULJARAM C of Arts, Science | ।। सिध्दिरनेकान्तात्।। nekant Education Society's CHATURCHAND COLLEGE and Commerce, Baramati - 413102. bist. Pune. Maharashtra, India. |
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| GEO2 | Geograp | Flood and | Flood and | CO-1 |
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| ap Dist. Pune. Maharashtra, India. Empowered Autonomous Status Religious Minority Institute NAAC Reaccredited 'A+' Grade, CGPA 3 | | | | | |
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| Dist. Pune. Maharashtra, India. | | | | | |
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| GEO2 | Practica | | Projection | | Projection | CO-1 |
| 303 | 1 | | 0 | | 0 | Students can |
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| | | | | | | given region |
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| | | | | | | | issues. |
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| | GEO2 403 | Practica l Geograp hy | Advanced Techniqu es in Mapping | Advanced Techniqu es in Mapping | Advanced Techniqu es in Mapping | Advanced Techniqu es in Mapping | CO-11 Develop practical knowledge and application of cartographica l techniques. |
| | | | | | | | CO-2 To make students aware of the new techniques, accuracy and skills of Map Making. |
| ТҮВА | GEO3 501 | Geograp hy of Tourism | Role of transporta tion and communi cation in tourism | CO-1Students will understand importance of transportation and communicati on in tourism |
| | GEO3 603 | Practica l in statistic al techniqu es | Data collection and analysis | Data collection and analysis | Data collection and analysis | Data collection and analysis | CO-1 Develop skills by problem- solving, field and/or primary and |



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| | | | | | | | secondary data collection, analysis and interpretation |
|-------------------------------|-------------|--|---|----------------------------|----------------------------|----------------------------|---|
| MA I Geogra phy (PG) | GEO 4102 | Principl es of Climato logy | Acid Precipitati on, Global Warming | Climate Change | Climate change | Climate Change | CO-1 Students will able to understand the causes global warming, climate change and acid precipitation. CO-2. Students can find out the remedies to control consequences of such calamities |
| | GEO4 104 | Principl es of Populati on and Settlem ent Geograp hy | Populatio n Dynamics | Populatio n Dynamics | Populatio n Dynamics | Populatio n Dynamics | CO-1 Students knows the approaches and various theories in population and settlement geography. CO-2 Students |



| | | | | | | understood |
|------|----------|-----------|-----------|-----------|-----------|-----------------|
| | | | | | | |
| | | | | | | the dynamics |
| | | | | | | of population |
| | | | | | | and its role in |
| | | | | | | population |
| | | | | | | policies |
| | | | | | | CO-3 |
| | | | | | | Concepts of |
| | | | | | | settlement |
| | | | | | | patterns and |
| | | | | | | types are well |
| | | | | | | understood by |
| | | | | | | students. |
| | | | | | | CO-4 |
| | | | | | | Students are |
| | | | | | | able to apply |
| | | | | | | knowledge of |
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| | | | | | | and |
| | | | | | | settlement |
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| | | | | | | developmenta |
| | | | | | | l planning |
| GEO | Practica | Represent | Represent | Represent | Represent | CO-1. |
| 4105 | l in | ation of | ation of | ation of | ation of | Students will |
| | Physical | weather | weather | weather | weather | able to collect |
| | Geograp | elements | elements | elements | elements | various types |
| | hy | data | data | data | data | of weather |
| | 2 | | | | | elements data |
| | | | | | | and can |
| | | | | | | develop new |
| | | | | | | technologies |
| | | | | | | to collect |
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| | | | | | | CO-2. with |
| | | | | | | weather data |
| | | | | | | students can |
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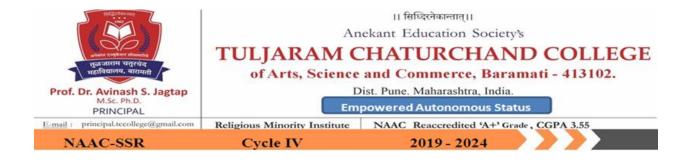
| - | | 1 | 1 | 1 | 1 | |
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| | | | | | | forecast weather conditions at local or regional level. |
| GEO 4204 | Geograp hy of Disaster Manage ment | Mitigatio n of Disaster | Mitigatio n of Disaster | Mitigatio n of Disaster | Mitigatio n of Disaster | CO-1. Students can implement different strategies for disaster management at local and regional level CO-2. Students can develop warning system for natural disaster like Tsunami, Earthquake. |
| GEO 4205 | Practica l in Surveyi ng | Advance surveying Techniqu es | Advance surveying Techniqu es | Advance surveying Techniqu es | Advance surveying Techniqu es | CO-1. Students will able to carry out the survey for local, regional and national level administrativ e authorities for different purpose like planning of town, |





| | | | | | | | construction of roads, bridge etc. |
|--------|------|-----------|-----------------|-----------------|-----------------|-----------------|--|
| | GEO4 | Practica | Correlatio | Correlatio | | | CO-1 |
| | 214 | 1 of | n, | n, | | | Students are |
| | | Statistic | Inferentia | Inferentia | | | able to apply |
| | | al | 1 Statistics | 1 Statistics | | | various |
| | | Techniq | 1 20000000 | 1 20000000 | | | descriptive |
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| | | hy | | | | | techniques on |
| | | | | | | | geographical |
| | | | | | | | data. |
| | | | | | | | CO-2. |
| | | | | | | | Students will |
| | | | | | | | enable to |
| | | | | | | | correlate |
| | | | | | | | different |
| | | | | | | | geographical |
| | | | | | | | data. |
| | GEO | Watersh | Watershe | Watershe | Watershe | Watershe | CO-1. |
| | 5314 | ed | d | d | d | d | Students will |
| | | manage | Develop | Develop | Develop | Develop | able to |
| | | ment | ment | ment | ment | ment | understand |
| | | | and soil | and soil | and soil | and soil | and develop |
| | | | conservati | conservati | conservati | conservati | different |
| MA I | | | on and | on and | on and | on and | techniques for soil and water |
| Geogra | | | water | water | water | water | conservation |
| phy | | | conservati | conservati | conservati | conservati | CO-2. |
| (PG) | | | on technique | on technique | on technique | on technique | Students can |
| | | | s | s | s | s | implement |
| | | | ~ | ~ | ~ | | different |
| | | | | | | | policies for |
| | | | | | | | sustainable |
| | | | | | | | development |
| | | | | | | | of watershed. |





HINDI

| Progra mme | Course Code | Course Title | _ | Topic in the syllabus which has relevance to the developmental needs | | | | |
|---------------|--|---------------------|---|--|--|---|---|--|
| | | | Local | National | Regional | Global | | |
| B.A. Hindi | FYBA 1) UNHN 111 / UNHN 121 | 1)सामा न्य हिंदी | स्थानीय प्रासंगिक ताः प्रेमचंद की "ईदगाह" कहानी और निर्मला पुतुल की 'उतनी दूर मत ब्याहना बाबा ['] (कविता) स्थानीय संदर्भों के लिए अत्यधिक प्रासंगिक हैं। | राष्ट्रीय प्रासंगिक ताः माखनला ल चतुर्वेदी की 'पुष्प की अभिलाषा ' तथा धूमिल की 'रोटी और संसद' कविता में राष्ट्रीय प्रासंगिक ता है क्योंकि वे देश के अतीत पर प्रकाश डालते हैं। | क्षेत्रीय प्रासंगिक ताः निर्मला पुतुल की 'उतनी दूर मत ब्याहना बाबा' कविता आदिवासी लोगों की संस्कृति और परंपराओं के बारे में जानकारी प्रदान करती हैं। | वैश्विक प्रासंगिकता : नागार्जुन द्वारा लिखित 'अकाल बाद' कविता में बंगाल में पड़े हुए अकाल का चित्रण किया है। | कार्यक्रम के परिणाम (POs): PO2:- प्रभावी नागरिकता और नैतिकता: सहानुभूतिपूर्ण सामाजिक सरोकार और समानता केंद्रित राष्ट्रीय विकास का प्रदर्शन करना, नैतिक मुद्दों के बारे में जागरूक जागरूकता के साथ कार्य करने और पेशेवर नैतिकता और पेशेवर नैतिकता और पेशेवर नैतिकता और पिममेदारी के प्रति प्रतिबद्ध होने की क्षमता। पाठ्यक्रम परिणाम (COs): | |



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| ENC210mmil | | ।। सिध्दिरनेकान्तात्।। | | | |

| | | | | | | | CO1) राष्ट्रीय ऐक्य, सामाजिक उत्तरदायित्व, वैज्ञानिकता आदि मूल्यों के प्रति छात्रों का ध्यान आकर्षित करना। |
|----------------|---|------------------|--|---|---|--|--|
| B.Com Hindi | FYBCo m 2) UCHN 111 (C) / UNHN 121 (C) | सामान्य हिंदी | जंगल का दाह - स्वयंप्रका श (कहानी) | प्रेम की बिरादरी (व्यंग्य)- हरीशंकर परसाई (कहानी) स्वदेश के प्रति - सुभद्राकु मारी चौहान (कविता) | प्रेम की बिरादरी (व्यंग्य)- हरीशंकर परसाई (कहानी) स्वदेश के प्रति - सुभद्राकु मारी चौहान (कविता) | प्रेम की बिरादरी (व्यंग्य)- हरीशंकर परसाई (कहानी) स्वदेश के प्रति - सुभद्राकुमा री चौहान (कविता) | कार्यक्रम के परिणाम (POs): PO2:- प्रभावी नागरिकता और नैतिकता: सहानुभूतिपूर्ण सामाजिक सरोकार और समानता केंद्रित राष्ट्रीय विकास का प्रदर्शन करना, नैतिक मुद्दों के बारे में जागरूक जागरूकता के साथ कार्य करने और पेशेवर नैतिकता और जिम्मेदारी के |



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| منتقد معولات بالسيري ويد معدلنا بتوريدي بتور أفعاد بني بينيدينا Prof. Dr. Avinash S. Jagtap M.Sc. Ph.D. | TULJARAM CHATURCHAND COLLEGE of Arts, Science and Commerce, Baramati - 413102. Dist. Pune. Maharashtra, India. | | | | |
| | ।। सिध्दिरनेकान्तात्।। Anekant Education Society's | | | | |

| B.A. Hindi | SYBA 1) HIN 2301/ 2401 | सामान्य हिंदी | खेल (कहानी) - जैनेंद्र कुमार गाँव के लड़के (कविता)- सुमित्रानंद न पंत। विज्ञापन लेखन, वृत्तांत लेखन, साक्षात्का र | छावनी में बेघर (कहानी) - अल्पना मिश्र गाँव के लड़के (कविता)- सुमित्रानंद न पंत। विज्ञापन लेखन, वृत्तांत लेखन, साक्षात्का र | उसने कहा था (कहानी)- चंद्रधर शर्मा गुलेरी गाँव के लड़के (कविता)- सुमित्रानंद न पंत। विज्ञापन लेखन, वृत्तांत लेखन, साक्षात्का र | उसने कहा था (कहानी)- चंद्रधर शर्मा गुलेरी गाँव के लड़के (कविता)- सुमित्रानंद न पंत। विज्ञापन लेखन, वृत्तांत लेखन, साक्षात्कार | प्रति प्रतिबद्ध होने की क्षमता। पठियक्रम परिणाम (COs): CO1) हिंदी के गद्य एवं पद्य के प्रतिनिधि रचनाकारों का परिणाम (POs): - PO3:- सामाजिक क्षमता: व्यक्तिगत और व्यक्त करें। वास्तविक और आभासी मीडिया में खुद को प्रभावी ढंग से अभिव्यक्त करने के लिए |
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| | | | | | | | दक्षताओं का प्रभावी उपयोग करें। समूह सेटिंग में बहुसांस्कृतिक संवेदनशीलता प्रदर्शित करें। पाठ्यक्रम परिणाम (COs): - CO1) हिंदी के गद्य एवं पद्य के प्रतिनिधि रचनाकारों का परिचय देना। CO2) पारिभाषिक शब्द, विज्ञापन, भेंटवार्ता/साक्षा ल्कार, रिपोर्ट लेखन आदि हिंदी भाषा के व्यावहारिक क्षेत्रों से |
|-------|---------------|---------|----------------------|----------------------|----------------------|------------------------|--|
| | | | | | | | क्षेत्रों से परिचित कुप्रनाम |
| B.A. | 2) HIN | काव्यशा | काव्य की | काव्य की | काव्य की | काव्य की | कराना। कार्यक्रम के |
| Hindi | 2302/ 2402 | स्त | परिभाषा, काव्य के | परिभाषा, काव्य के | परिभाषा, काव्य के | परिभाषा, काव्य के | परिणाम (POs): - |
| | | | काण्य क तत्व, | काण्य क तत्व, | काण्य क तत्व, | काव्य क तत्व, काव्य | PO8 :- |
| | | | काव्य हेतु तथा | काव्य हेतु तथा | काव्य हेतु तथा | हेतु तथा | आलोचनात्मक सोच और |
| | | | | | | | समस्या |



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| | काव्य के | काव्य के | काव्य के | काव्य के | समाधानः |
|--|----------|----------|----------|----------|-----------------|
| | प्रयोजन | प्रयोजन | प्रयोजन | प्रयोजन | आलोचनात्मक |
| | | | | | सोच के |
| | | | | | कौशल का |
| | | | | | प्रदर्शन करें |
| | | | | | और अपने |
| | | | | | सामाजिक |
| | | | | | परिवेश में |
| | | | | | स्थित |
| | | | | | समस्याओं से |
| | | | | | निपटने, |
| | | | | | व्यवहार्य |
| | | | | | समाधान |
| | | | | | प्रस्तावित |
| | | | | | करने और |
| | | | | | इसके |
| | | | | | कार्यान्वयन में |
| | | | | | मदद करने के |
| | | | | | लिए उच्च क्रम |
| | | | | | के संज्ञानात्मक |
| | | | | | कौशल का |
| | | | | | उपयोग करें। |
| | | | | | पाठ्यक्रम |
| | | | | | परिणाम |
| | | | | | (COs): - |
| | | | | | CO1) काव्य, |
| | | | | | साहित्य की |
| | | | | | परिभाषाओं |
| | | | | | द्वारा काव्य के |
| | | | | | स्वरूप के |
| | | | | | साथ काव्य हेतु |
| | | | | | तथा काव्य के |



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| | | | | | | | प्रयोजनों का ज्ञान कराना। |
|---------------|-----------------|----------|----------|----------|-----------|--------------|--------------------------------|
| B.A. | 2) LUNI | | <u></u> | <u></u> | ककी के | <u></u> | |
| Б.А. Hindi | 3) HIN 2303/ | उपन्यास, | एक पत्नी | एक पत्नी | कबीर के | एक पत्नी | कार्यक्रम के चरित्राज्य |
| TIIIUI | 2303/ | नाटक | के नोट्स | के नोट्स | दोहे | के नोट्स - | परिणाम |
| | 2-105 | तथा | - ममता | - ममता | सूरदास | ममता | (POs): - |
| | | मध्ययुगी | कालिया | कालिया | के पद् | कालिया | PO2:- प्रभावी |
| | | न काव्य | (उपन्यास | (उपन्यास | रहीम के | (उपन्यास) | नागरिकता |
| | | |) |) | दोहे | महाभोज - | और नैतिकताः |
| | | | महाभोज | महाभोज | बिहारी के | मन्नू भंडारी | सहानुभूतिपूर्ण |
| | | | - मन्नू | - मन्नू | दोहे | (नाटक) | सामाजिक |
| | | | भंडारी | भंडारी | | | सरोकार और |
| | | | (नाटक) | (नाटक) | | | समानता |
| | | | | | | | केंद्रित राष्ट्रीय |
| | | | | | | | विकास को |
| | | | | | | | प्रदर्शन करना, |
| | | | | | | | नैतिक और |
| | | | | | | | नैतिक मुद्दों के |
| | | | | | | | बारे में |
| | | | | | | | जागरूक |
| | | | | | | | जागरूकता के |
| | | | | | | | साथ कार्य |
| | | | | | | | करने और |
| | | | | | | | पेशेवर |
| | | | | | | | नैतिकता और |
| | | | | | | | जार जिम्मेदारी के |
| | | | | | | | ाजम्मदारा क प्रति प्रतिबद्ध |
| | | | | | | | |
| | | | | | | | होने की |
| | | | | | | | क्षमता। |
| | | | | | | | पाठ्यक्रम |
| | | | | | | | परिणाम |
| | | | | | | | (COs): - |
| | | | | | | | CO1) |
| | | | | | | | मध्ययुगीन संत |



| मध्यम प्रमुखेला मोजावने मुद्धज्ञाराम चतुरचेव महाविद्यालय, बारामती | TULJARAM CHATURCHAND COLLEGE of Arts, Science and Commerce, Baramati - 413102. | | | | |
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| B.A. | ТҮВА | सामान्य | सुजन | सृजन | सुजन | सुजन | एवं भक्तों के काव्य से छात्रों को परिचित कराना। CO2) हिंदी उपन्यास एवं नाटक के आस्वादन की क्षमता विकसित करना। कार्यक्रम के |
|-------|-------------------------|----------------|---|--|---|---|---|
| Hindi | 1) HIN 3501/ 3601 | हिंदी (G-3) | संदर्भ और मैं (आत्मक थांश) साए में धूप (गज़ल) - दुष्पंतकु मार | र्षवभ और मैं (आत्मक थांश) साए में धूप (गज़ल) - दुष्पंतकु मार | संदर्भ और मैं (आत्मक थांश) साए में धूप (गज़ल) - दुष्पंतकु मार | र्श्वन संदर्भ और मैं (आत्मकथां रा) साए में धूप (गज़ल) - दुष्यंतकुमा र | परिणाम (POs): - PO6 :- स्व- निर्देशित और जीवन भर सीखना: सामाजिक- तकनीकी परिवर्तन के व्यापक संदर्भ में स्वतंत्र और जीवन भर सीखने में संलग्न होने की क्षमता हासिल करना। पाठ्यक्रम परिणाम (COs): - CO1. छात्र काव्य के |



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| | | | | | | | माध्यम से मानवीय मूल्यों को आत्मसात करेंगे। |
|---------------|---------------------------------|---|--------------|-------------------------------|-------------------------------|---------------------------|--|
| B.A. Hindi | TYBA 2) HIN 3502/ 3602 | हिंदी साहित्य का इतिहास (S-3) | भक्तिका ल | भक्तिका ल आधुनिक काल | भक्तिका ल आधुनिक काल | भक्तिकाल आधुनिक काल | कार्यक्रम के परिणाम (POs): - PO6 :- स्व- निर्देशित और जीवन भर सीखना: सामाजिक- तकनीकी परिवर्तन के व्यापक संदर्भ में स्वतंत्र और जीवन भर सीखने में संलग्न होने की क्षमता हासिल करना। पाठ्यक्रम परिणाम (COs): - CO1) हिंदी साहित्य के इतिहास के कालखंडों के नामकरण एवं पृष्ठभूमि का परिचय देना। |



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| B.A. Hindi | TYBA 3) HIN 3503/ 3603 | भाषा विज्ञान (S-4) प्राचीन | भाषा की परिभाषाएं , स्वरुप, हिंदी की विविध बोलियाँ | भाषा की परिभाषाएं , स्वरुप, भाषा की विशेषताएं , भाषा के भेद | भाषा की परिभाषाएं , स्वरुप, भाषा की विशेषताएं , भाषा के भेद | भाषा की परिभाषाएं, स्वरुप, हिंदी की विविध बोलियाँ | कार्यक्रम के परिणाम (POs): - PO4 :- अनुशासनात्म क ज्ञान : पारंपरिक अनुशासन ज्ञान : पारंपरिक अनुशासन ज्ञान और आधुनिक दुनिया में इसके अनुप्रयोगों का मिश्रण प्रदर्शित करें । चुने गए कार्यक्रम से उत्पन्न मजबूत सैद्धांतिक और व्यावहारिक समझ को क्रियान्वित करें । परिणाम (COs): - CO1) छात्रों में भाषा के वैज्ञानिक अध्ययन की दृष्टि निर्माण करना। कार्यक्रम के |
|---------------|---------------------------------|-------------------------------------|---|--|--|--|---|
| Hindi | | तथा | खुसरो की | खुसरो का | का | पद्मावत | परिणाम (POs): - |



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| PAHN 111/ 121 | मध्ययुगी न काव्य / मध्ययुगी न काव्य | पहेलियों / रहीम के दोहे | खड़ीबोली हिंदी के विकास में योगदान / भूषण के | पद्मावत महाकाव्य / रहीम के काव्य नीति | महाकाव्य / रहीम के काव्य नीति | PO1:- अनुसंधान- संबंधित कौशल: चुने हुए क्षेत्र और |
|---------------------|--|-------------------------------|--|---|-------------------------------------|---|
| | | | काव्य में राष्ट्रीय चेतना | | | संबद्ध विषयों में अनुसंधान और उच्च नैभाषिक |
| | | | | | | शैक्षणिक उपलब्धियों के लिए अवसर की तलाश है |
| | | | | | | और और अनुसंधान नैतिकता, |
| | | | | | | बौद्धिक संपदा अधिकारों और साहित्यिक |
| | | | | | | ताहालपर्र चोरी के मुद्दों के बारे में जागरूक है। |
| | | | | | | जागरः प्रहा प्रासंगिक/उचि त प्रश्न पूछने के लिए |
| | | | | | | पूछताछ की भावना और |
| | | | | | | क्षमता प्रदर्शित करें, किसी अनुस्ंधान |
| | | | | | | परियोजना के परिणामों की योजना बनाने, |
| | | | | | | निष्पादित |



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| | | | | | | | करने और रिपोर्ट करने की क्षमता, चाहे वह क्षेत्र में हो या अन्यथा पर्यवेक्षण के तहत। पाठ्यक्रम परिणाम (COs): - CO1) प्राचीन तथा मध्ययुग के प्रतिनिधि कवियों के योगदान के विविध आयामों से छात्रों को परिचित करना। CO2) मध्ययुगीन संत एवं भक्तों के |
|---------------|-----------------------------|-----------------------------------|---|---|---|---|--|
| | | | | | | | |
| M.A. Hindi | MA-I PAHN 112/ 122 | आधुनिक हिंदी कथा साहित्य | हिंदी की श्रेष्ठ कहानियाँ – सिक्का बदल गया | उपन्यास - 'अकाल में उत्सव': पंकज सुबीर कहानी - सिक्का | उपन्यास - 'अकाल में उत्सव': पंकज सुबीर कहानी - सिक्का | उपन्यास - 'अकाल में उत्सव': पंकज सुबीर कहानी - सिक्का | कार्यक्रम के परिणाम (POs): - PO3:- सामाजिक क्षमता: व्यक्तिगत और व्यावसायिक |



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|--|-----------|-----------|-----------|-----------------------|-----------------|
| | - कृष्णा | बदल गया | बदल गया | बदल गया | जीवन में अच्छे |
| | सोबती | - कृष्णा | - कृष्णा | - कृष्णा | पारस्परिक |
| | नाटक : | सोबती / | सोबती | सोबती | संबंध बनाने के |
| | 'फन्दी' - | नाटक : | नाटक : | नाटक : | लिए स्वयं को |
| | शंकर शेष | 'फन्दी' - | 'फन्दी' - | ·फन्दी [,] - | स्पष्ट और |
| | | शंकर शेष | शंकर शेष | शंकर शेष | सटीक रूप से |
| | | | | | व्यक्त करें। |
| | | | | | वास्तविक और |
| | | | | | आभासी |
| | | | | | मीडिया में खुद |
| | | | | | को प्रभावी ढंग |
| | | | | | से अभिव्यक्त |
| | | | | | करने के लिए |
| | | | | | भाषाई |
| | | | | | दक्षताओं का |
| | | | | | प्रभावी |
| | | | | | उपयोग करें। |
| | | | | | समूह सेटिंग में |
| | | | | | बहुसांस्कृतिक |
| | | | | | संवेदनशीलता |
| | | | | | प्रदर्शित करें। |
| | | | | | पाठ्यक्रम |
| | | | | | परिणाम |
| | | | | | (COs): - |
| | | | | | CO1) गद्य की |
| | | | | | प्रमुख विधाओं |
| | | | | | के तात्विक |
| | | | | | स्वरूप का |
| | | | | | परिचय देना। |
| | | | | | CO2) रचना |
| | | | | | के आस्वादन |
| | | | | | एवं समीक्षण |
| | | | | | की क्षमता |
| | | 1 | 1 | | |



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|---|--------------|
| M.Sc. Ph.D. PRINCIPAL Empowered Autonomous St | tatus |

| | | | | | | | विकसित करना। |
|---------------|-----------------------------|---|---|--|--|--|--|
| M.A. Hindi | MA-I PAHN 113/ 123 | भारतीय / पाश्चात्य साहित्य शास्त्र | रस सिद्धांत, अलंकार सिद्धांत, ध्वनि सिद्धांत | रस सिद्धांत, अलंकार सिद्धांत, रीति सिद्धांत सिद्धांत | रस सिद्धांत, अलंकार सिद्धांत, रीति सिद्धांत सिद्धांत | अनुकरण सिद्धांत विरेचन सिद्धांत उदात्त सिद्धांत आई. ए. रिचर्डस् का मनोवैज्ञानि क मूल्यवाद और संप्रेषण सिद्धांत | कार्यक्रम के परिणाम (POs): - PO8 :- आलोचनात्मक सोच और समस्या समस्या समाधान: आलोचनात्मक सोच के कौशल का प्रदर्शन करें और अपने सामाजिक परिवेश में स्थित समस्याओं से निपटने, व्यवहार्य समस्याओं से निपटने, व्यवहार्य समस्याओं से निपटने, व्यवहार्य समाधान प्रस्तावित करने और इसके कार्यान्वयन में मदद करने के लिए उच्च क्रम के संज्ञानात्मक कौशल का उपयोग करें। |



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| | | Thekant Education Society's | | | | |
| | ।। सिध्दिरनेकान्तात्।। | | | | | |

| M.A. Hindi | MA-I PAHN 114/ 124 | विशेष स्तर: विशेष साहित्य | कबीर के दोहे तथा पद उपन्यास् - | कबीर के दोहे तथा पद उपन्यास - | कबीर के दोहे तथा पद उपन्यास - | कबीर के दोहे तथा पद उपन्यास् - | पाठ्यक्रम परिणाम (COs): - CO1) भारतीय तथा पाश्चात्य साहित्यशास्त के सिद्धांतों का ज्ञान कराना। CO2) साहित्यशास्ती य अध्ययन के माध्यम से छात्रों में समीक्षात्मक दृष्टि विकसित करना। कार्यक्रम के परिणाम (POs): - PO2:- प्रभावी |
|---------------|-----------------------------|---|---|---|---|--|---|
| | | कारः कबीर / विशेष विधा : हिंदी उपन्यास | मुक्तिपर्व - मोहनदास नैमिशराय फाँस - संजीव त्यागपत्र - जैनेंद्रकुमा र | मुक्तिपर्व - मोहनदास नैमिशराय फाँस - संजीव त्यागपत्र - जैनेंद्रकुमा र | मुक्तिपर्व - मोहनदास नैमिशराय फाँस - संजीव त्यागपत्र - जैनेंद्रकुमा र | मुक्तिपर्व - मोहनदास नैमिशराय फाँस - संजीव त्यागपत्र - जैनेंद्रकुमा र | नागरिकता और नैतिकताः सहानुभूतिपूर्ण सामाजिक सरोकार और समानता केंद्रित राष्ट्रीय विकास का प्रदर्शन करना, नैतिक और नैतिक मुद्दों के बारे में जागरूक |



| M.Sc. Ph.D. PRINCIPAL <u>E-mail</u> : principal.tccollege@gmail.com NAAC-SSR | Empowered Autonomous Status | | | | | |
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| पुरुवारमा पत्रस्थ महाविधालप, पारामती Prof. Dr. Avinash S. Jagtap | of Arts, Science and Commerce, Baramati - 413102. Dist. Pune. Maharashtra, India. | | | | | |
| | | ।। सिथ्दिलेकान्तात्।। nekant Education Society's CHATURCHAND COLLEGE | | | | |

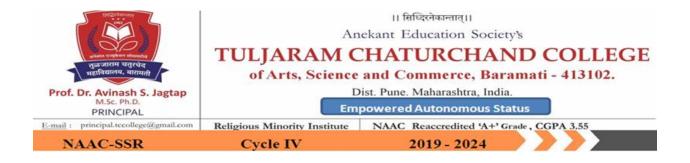
| | | | | | | | जागरूकता के साथ कार्य करने और पेशेवर नैतिकता और जिम्मेदारी के प्रति प्रतिबद्ध होने की क्षमता। पाठ्यक्रम परिणाम (COs): - CO1) कबीर के काव्य की प्रासंगिकता से अवगत कराना। CO2) हिंदी उपन्यासों में अभिव्यक्त मानवी जीवन का परिचय देना। |
|---------------|-----------------------------------|--------------------------|---|---|---|---|---|
| M.A. Hindi | MA-II 1) HIN 5301 / 5401 | आधुनिक काव्य 1 / 2 | गोपा गौतमः जगदीश गुप्त (खंड़का व्य) विशेष कवि कुंवर नारायण | कामायनी - जयशंकर प्रसाद (महाका व्य) गोपा गौतम: जगदीश गुप्त | गोपा गौतमः जगदीश गुप्त (खंड़का व्य) विशेष कवि कुंवर नारायण | कामायनी- जयशंकर प्रसाद (महाकाव्य) गोपा गौतमः जगदीश गुप्त | कार्यक्रम के परिणाम (POs): - PO8 :- आलोचनात्मक सोच और समस्या समस्या समाधान: आलोचनात्मक सोच के |



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| | | | की कविताएँ | (खंड़का व्य) | की कविताएँ | (खंड़काव्य) | कौशल का प्रदर्शन करें और अपने सामाजिक परिवेश में स्थित समस्याओं से निपटने, व्यवहार्य समाधान प्रस्तावित करने और इसके कार्यान्वयन में मदद करने के लिए उच्च क्रम के संज्ञानात्मक कौशल का उपयोग करें। पाठ्यक्रम परिणाम (COs): - CO1. छात्र आधुनिक हिंदी काट्य की |
|---------------|-----------------------------------|--|---|---|--|---|--|
| | | | | | | | काव्य की प्रवृत्तियों से |
| M.A. Hindi | MA-II 2) HIN 5302 / 5402 | भाषा विज्ञान / हिंदी भाषा का ऐतिहासि | भाषा की परिभाषा, स्वरूप, हिंदी भाषा का उद्भव एवं | स्वन विज्ञान वाक्य विज्ञान अर्थ विज्ञान, | हिंदी बोलियों का वर्गीकरण तथा क्षेत्र- | भाषा की परिभाषा, स्वरूप, हिंदी भाषा का उद्भव एवं विकास | परिचय होंगे। कार्यक्रम के परिणाम (POs): - PO4 :- अनुशासनात्म क ज्ञान : |





| | | क विकास | विकास हिंदी का व्याकरणि क स्वरूप और विकास | | हिंदी का व्याकरणि क स्वरूप और विकास | हिंदी का व्याकरणि क स्वरूप और विकास | पारंपरिक अनुशासन ज्ञान और आधुनिक दुनिया में इसके अनुप्रयोगों का मिश्रण प्रदर्शित करें। चुने गए कार्यक्रम से उत्पन्न मजबूत सैद्धांतिक और व्यावहारिक समझ को क्रियान्वित करें। पाठ्यक्रम परिणाम (COs): - CO1) छात्रों में भाषा के वैज्ञानिक अध्ययन की दृष्टि निर्माण करना। |
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| M.A. Hindi | MA-II 3) HIN 5303 / 5403 | हिंदी साहित्य का इतिहास | आदिकाल भक्तिका ल | भक्तिका ल आधुनिक काल | भक्तिका ल आधुनिक काल | भक्तिकाल आधुनिक काल | कार्यक्रम के परिणाम (POs): - PO6 :- स्व- निर्देशित और जीवन भर सीखना: सामाजिक- |



| etan verber draude egasarter draude recharger draude recharger draude Prof. Dr. Avinash S. Jagtap M.Sc. Ph.D. | TULJARAM C of Arts, Science | tekant Education Society's CHATURCHAND COLLEGE and Commerce, Baramati - 413102. vist. Pune. Maharashtra, India. powered Autonomous Status |
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| Hindi | MA-II 4) HIN 5304 / 5404 | वैकल्पि कः आधुनिक हिंदी आलोच ना / वैकल्पि क: लोकसा हित्य | आलोचना - स्वरूप, उद्देश्य, लोकगीतः परिभाषाएँ , विशेषताएँ महाराष्ट्र का लोकना ट्य- तमाशा, गोंधळ | आलोचना और अनुसंधान , आलोचक के गुण, हिंदी आलोचना का विकास क्रम, | हिंदी आलोचना का विकास क्रम, लोकसाहि त्य का स्वरूप, परिभाषाएँ तथा विशेषताएँ , | विडम्बना (आयरनी), अजनबीप न (एलियनेश न), विसंगति (एब्सर्ड), अंतर्विरोध (पैराडॉक्स) , विखंडन (डीकन्स्ट्र क्शन) | तकनीकी परिवर्तन के व्यापक संदर्भ में स्वतंत्र और जीवन भर सीखने में संलग्न होने की क्षमता हासिल करना। पाठ्यक्रम परिणाम (COs): - CO1) हिंदी साहित्य के इतिहास के कालखंडों के नामकरण एवं पृष्ठभूमि का परिचय देना। कार्यक्रम के परिणाम (POs): - PO3:- सामाजिक क्षमता: व्यक्तिगत और व्यावसायिक जीवन में अच्छे पारस्परिक संबंध बनाने के लिए स्वयं को स्पष्ट और सटीक रूप से |
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| econtrative regionation Prof. Dr. Avinash S. Jagtap | TULJARAM C of Arts, Science | ।। सिष्दिरनेकान्तात्।। nekant Education Society's CHATURCHAND COLLEGE and Commerce, Baramati - 413102. Dist. Pune. Maharashtra, India. |
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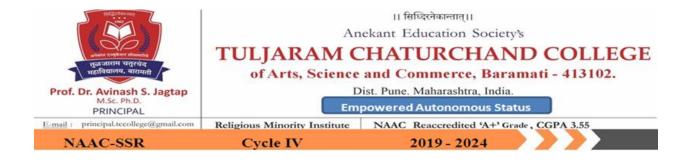
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|-------|--|--|------------------------|
| | | | व्यक्त करें। |
| | | | वास्तविक और |
| | | | आभासी |
| | | | मीडिया में खुद |
| | | | को प्रभावी ढंग |
| | | | से अभिव्यक्त |
| | | | करने के लिए |
| | | | भाषाई |
| | | | |
| | | | दक्षताओं का मः म्ली |
| | | | प्रभावी चर्चे |
| | | | उपयोग करें। |
| | | | समूह सेटिंग में |
| | | | बहुसांस्कृतिक |
| | | | संवेदनशीलता |
| | | | प्रदर्शित करें। |
| | | | पाठ्यक्रम |
| | | | परिणाम |
| | | | (COs): - |
| | | | CO1) |
| | | | आलोचना का |
| | | | स्वरूप, |
| | | | उसकी |
| | | | उपयोगिता |
| | | | और आलोचक |
| | | | के गुण से |
| | | | परिचित |
| | | | कराना। |
| | | | CO2) |
| | | | लोकसाहित्य |
| | | | में सामाजिक |
| | | | प्रथाओं, |
| | | | परंपरांओं और |
| | | | सांस्कृतिक |
| | | | मूल्यों की |
| | | | 10 10 10 |



| Electronic Contraction | | ।। सिघ्दिरनेकान्तात्।। |
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| क्रिका प्रपूर्णन संस्थान तुद्धजाराम चतुरचेद महाविद्यालय, बारामती | | CHATURCHAND COLLEGE and Commerce, Baramati - 413102. |
| Prof. Dr. Avinash S. Jagtap M.Sc. Ph.D. PRINCIPAL | 6 | Dist. Pune. Maharashtra, India. powered Autonomous Status |
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| | | | जीवंत प्रस्तुतियों से परिचित होंगे। |
|--|--|--|---|
| | | | पाराचत हागा |





HISTORY

| Progra mme | Cour se | Course Title | Topic in t | POs, PSO's & | | | |
|---------------|--------------|-----------------|---|---|---|---|--|
| | Code | | Local | National | Regional | Global | COs |
| B.A. | UAH S 111 | Early India | Unit I: Sources | Unit I: Sources | Unit I: Sources | Unit I: Sources | CO 1 Get acquainted with the sources of early Indian history. |
| B.A. | UAH S 111 | Early India | II: Harappan Culture: Bronze Age Civilizatio n | II: Harappan Culture: Bronze Age Civilizatio n | II: Harappan Culture: Bronze Age Civilizatio n | II: Harappan Culture: Bronze Age Civilizatio n | CO 2 Know about the early civilization s in India. |
| B.A. | UAH S 111 | Early India | Unit III: Vedic Culture, Religious Protest: Jainism and Buddhism | Unit III: Vedic Culture, Religious Protest: Jainism and Buddhism | Unit III: Vedic Culture, Religious Protest: Jainism and Buddhism | Unit III: Vedic Culture, Religious Protest: Jainism and Buddhism | CO 3 Understand the socio- religious and economic transformat ions during the 6th Century A.D. |
| B.A. | UAH S 111 | Early India | Unit IV: Emergenc e of the Mahajanp adas and | CO 3 Understand the socio- religious and |



| reasoniciti equerations reasoniciti equeration reasoniciti equeration resolution equeration Prof. Dr. Avinash S. Jagtap M.Sc. Ph.D. PRINCIPAL | TULJARAM C of Arts, Science | ।। सिष्दिरनेकान्तात्।। nekant Education Society's CHATURCHAND COLLEGE and Commerce, Baramati - 413102. Dist. Pune. Maharashtra, India. powered Autonomous Status |
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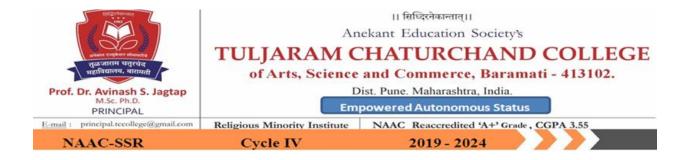
| | | | the Age of the Mauryas | the Age of the Mauryas | the Age of the Mauryas | the Age of the Mauryas | economic transformat ions during the 6th Century A.D. |
|--------|-----------------|---|---|--|---|--|--|
| M.A. I | РАН S 111 | History: Theory and Method | Unit 2 : History and its theories | Unit 2 : History and its theories | Unit 2 : History and its theories | Unit 2 : History and its theories | CO 1 Students will get acquainted with early theories of Historiogra phy. |
| M.A. I | PAH S 111 | History: Theory and Method | Unit 4 : Structurali sm – Post Structurali sm | Unit 4 : Structurali sm – Post Structurali sm | Unit 4 : Structurali sm – Post Structurali sm | Unit 4 : Structurali sm – Post Structurali sm | CO 2 Students will acquire knowledge about modern and most recent theories of History writing. |
| M.A. I | PAH S 112 | Evolutio n of Ideas and Institutio ns in Early India | | Unit 2 : Sources: Perception s, Limitation s, Range | | Unit 2 : Sources: Perception s, Limitation s, Range | CO 1 Students will be able to analyze perceptions , limitations and range of sources of Early India. |



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| M.A. I | PAH | Social | Unit | 3: | Unit | 3: | Unit | 3. | Unit | 3. | CO | 2 | It |
|---------|-----|---------|---------|------------|---------|------------|----------|------------|----------|------------|--------|------------|----|
| WI.A. I | | | | | | | | | | | | | |
| | S | Backgro | | Historical | | Historical | | Historical | | Historical | | highlights | |
| | 114 | und of | Backgr | ou | Backgr | | Backgrou | | Backgrou | | the e | arli | er |
| | | Dalit | nd | of | nd | of | nd | of | nd | of | form | s (| of |
| | | Moveme | Protest | | Protest | | Protest | | Protest | | prote | st | |
| | | nt in | | | | | | | | | from | tł | ne |
| | | Maharas | | | | | | | | | ancie | nt | |
| | | htra | | | | | | | | | till | tł | he |
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| | | | | | | | | | | | whic | h la | id |
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| | | | | | | | | | | | socia | 1 | |
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| | | | | | | | | | | | r peri | iod. | |





LINRARY SCIENCE

| Progra mme | Cou rse | Course Title | - | the syllabus elopmental | | s relevance | POs, PSO's & COs |
|-------------------------|------------------|--|---|--|--|------------------------------------|--|
| | Cod e | | Local | National | Regiona l | Global | |
| B.Lib.I. Sc. (UG) | UBL IS 111 | Foundation s of Library & Informatio n Science | Importan ce of libraries in society. | Library moveme nt | Aware about the five laws | Library Develop ment | To understand purpose, role and importance of libraries in society. To familiarize students with development of libraries in global and India in particular. To make them aware about the five laws of library science. |
| | UBL IS 112 | Informatio n manageme nt and Organizati ons | Manage ment of libraries and informati on Centres | Aware of principle s & functions of manage ment | Manage ment of libraries and informati on Centres. | Leadershi p in the LIS field | CO1: Can apply the skills and attitudes of visioning, entrepreneursh ip, advocacy, planning and Management of libraries and information |



| Casanter and a starter | TULJARAM C | ।। सिध्दिरनेकान्तात्।। nekant Education Society's CHATURCHAND COLLEGE and Commerce, Baramati - 413102. | | | | |
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| | | | | | | centers (LICS) and effective leadership in the LIS field CO2: Training in organization of library work & collection development. |
|------------------|-----------------------------------|---|---|---|---|--|
| | | | | | | CO3: Make aware of principles & functions of management & their application to Librarianship. |
| UBL IS 113 | Reference Service & Sources | structure and uses of reference and informati on sources | structure and uses of reference and informati on sources | structure and uses of reference and informati on sources | structure and uses of reference and informati on sources | CO3. Develop the skills for providing reference and information CO4. Understand the nature, structure and uses of reference and information sources CO5. Identify the primary sources of information |



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| | | | | | | and their characteristics |
|------------------|--|--|--|--|--|--|
| UBL IS 114 | Informatio n Science | Evaluate the informati on sources; resource s | Evaluate the informati on sources; resource s | Evaluate the informati on sources; resource s | Evaluate the informati on sources; resources | CO2: Acquaint with concept of information users. CO3: To make them understand the concept and need of user study, information user. CO4: the basics of information sources and services and how to critically analyse and evaluate the information sources; |
| UBL IS 115 | Knowledg e Organizati on: Classificati on–I (Theory) | Knowled ge as mapped in different classifica tion schemes | Knowled ge as mapped in different classifica tion schemes | Knowled ge as mapped in different classifica tion schemes | Knowled ge as mapped in different classificat ion schemes | resources CO5: Elaborate meaning and types of subjects and modes of subject formation. |



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| | | | | | | CO6: Illustrate knowledge as mapped in different classification schemes CO7: Express the meaning, purpose, functions, theories and canons of library classification. |
|------------------|--|---|---|---|---|---|
| UBL IS 116 | Informatio n Processing : Cataloguin g -I (Theory) | Principle s and theories of library catalogui ng. | Principle s and theories of library catalogui ng. | Principle s and theories of library catalogui ng. | Principles and theories of library catalogui ng. | CO1. How to develop knowledge organization systems CO2. The implications of knowledge organization systems and approaches CO3. The principles and theories of library cataloguing. |



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| رمت مراجع م مراجع مراجع مراج مراجع مراجع مراج | TULJARAM C of Arts, Science | ।। सिध्दिरनेकान्तात्।। nekant Education Society's CHATURCHAND COLLEGE and Commerce, Baramati - 413102. Dist. Pune. Maharashtra, India. powered Autonomous Status |

| | UBL IS 117 | Informatio n Communic ation Technologi es (ICT) in Libraries (Theory) | Develop the library manage ment software for applicati on in different Libraries | Develop the library manage ment software for applicati on in different Libraries | Develop the library manage ment software for applicati on in different Libraries | Develop the library managem ent software for applicatio n in different Libraries | CO3. Skillful use of Internet and its services. CO4. To provide a foundational understanding of information communicatio n technology (ICT) and its components and applications. CO5. To explore the evolution and generations of computers, computer hardwarecomp onents and software types. |
|-------------------------|------------------|--|--|--|--|--|--|
| M.Lib.I. Sc. (PG) | PML IS 111 | Informatio n, Communic ation & Society | Manage informati on resource s and the informati on life- cycle | Manage informati on resource s and the informati on life- cycle | Manage informati on resource s and the informati on life- cycle | Manage informat ion resource s and the informat ion life- cycle | CO1. Can manage information resources and the information life-cycle through the processes of collection development, |



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| M.Sc. Ph.D. PRINCIPAL Empowered Autonomous St | tatus |

| | | | | | | organization, preservation, conservation, access, and dissemination in accordance with physical, virtual, and technical infrastructure and needs. CO2. About the information and r elated concept; CO3. How freedom of information prevails in an advanced society to uphold a democracy; |
|------------------|--|---|---|---|---|---|
| PML IS 112 | Introductio n to Research Methodolo gy | Different methods and techniqu es of research; | Different methods and techniqu es of research; | Different methods and techniqu es of research; | Differen t methods and techniqu es of research ; | CO4. The different methods and techniques of research; CO5. The use of data collection tools, organization and |



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| | | | | | | representation of data; |
|------------------|---|---|---|--|---|--|
| PML IS 113 | Informatio n Retrieval | Indexing systems and techniqu es. | Indexing systems and techniqu es. | Indexing systems and techniqu es. | Indexin g systems and techniqu es. | of data;CO2.Understand the Conceptof informationanalysis,consolidationandrepackaging.CO3.Understand the Indexingsystems andtechniques.CO4.Understand the quality ofgood abstractsand process ofabstracting. |
| PML IS 114 | Manageme nt of Libraries & Informatio n Centers - A | TQM& Marketin g of LIS services. | Human Resource s Manage ment | Applicati on library manage ment systems. | TQM& Marketi ng of LIS services. | CO1. The students are able to identify & describe the characteristic of library management systems. CO2. Study the functions of management & their application to librarianship. |



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| | | | | | | CO3. Familiarize students with the concept of System Analysis, Management of Change TQM & Marketing of LIS services. |
|------------------|--|---|---|---|--|---|
| PML IS 115 | Informatio n Technolog y: (Theory) | System and applicati on software. | System and applicati on software. | System and applicati on software. | System and applicati on software | CO7. To explore the basic ICTs tools in a practical manner. CO8. To learn the usages of system and application software. |



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| Progr amme | Course Code | Cours e Title | Topic in | | which has re nental needs | levance to the | POs, PSO's & |
|-------------------------|----------------|--|--|--|---|---|--|
| | | | Local | National | Regional | Global | COs |
| F.Y. B.A. Sem. I | UAMR1 11 | मराठी साहि त्य : कथा आणि भाषि कौश ल्ये विका स | Stories Languag e Skills मरिआई चा गाडा अण्णाभा ऊ साठे | Multi Language Skills कृष्णविवर- जयंत नारळीकर | Regional Language Skills वळीव- रांकर पाटील | Transleters जेव्हा मी जात चोरली होती – बाबुराव बागुल | Pos. 1) Research -Related -Related Skills: Pso- मराठी भाषा आणि वाड्मयाविष यीचे यीचे प्रगत ज्ञान होईल. Co- साहित्याच्या अभ्यासातून विद्यार्थ्यांच्या सूक्ष्म, विश्लेषक व चिकित्सक अभ्यास अभ्यास वरण्याच्या करण्याच्या क्षमतेमध्ये वाढ होईल. वाढ होईल. |
| F.Y. B.A. Sem. II | UAMR1 21 | मराठी साहि त्य : कविता आणि भाषि क कौरा | Poetry Languag e Skills सिजरक र म्हणतेय माती- कल्पना दुधाळ | Entreprene urs माय,बाप, जीव | Regional Language Skills मृत्यूसोबत, विठोबा | Transleters आईच्या पदराखालून बाय आणि गाय | Po5 Personala nd professio nal competen ce Pso- लेखन- संपादन, लेखनविद्या -, |

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| | | ल्ये विकास | विहीर विहीर | | | | भाषांतर, रूपांतर, अनुवाद, वक्तृत्व कला, नाट्यकला, याअभिव्य क्तीच्या आविष्कार प्रकार व प्रक्रियांविष यी तसेच त्यासंबंधीची माहिती होईल. Co- प्रसार माध्यमांमध्ये विद्यार्थ्यांना आपले विचार निर्भीडपणे मांडण्याचे कौशल्य प्राप्त होईल. |
|-------------------------|----------------|---|--|--|---|--|---|
| F.Y.B. COM Sem. I | UCMR1 11(B) | साहि त्य आणि भाषि क कौश ल्ये विकास | वैचारिक, विषयक इडली, आर्किड आणि मी _लेखक _विठ्ठल कामत | Multi Language Skills निबंध लेखन, भाषिक कौशल्य | Regional Language Skills ललित, वाणिज्य | Job Opportunity व्यावसायिक कौशल्य | PO4: Disciplinar y Knowledge : PSO- वाङ्मयाची आणि जीवनाची |



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| | | | | | | | जाणीव प्रौढ होईल. Co- विद्यार्थ्यांच्या लेखन गुणांना उत्तेजन मिळेल.कार्या लयीन व प्रशासकीय व्यवहार करताना व द्यार्थ्यांना मराठीचा अचूक व प्रभावी वापर करता येईल. |
|-----------------------------|----------------|---------------------------------|---------------------------------|---|--|---|--|
| F.Y.B. COM Sem. II | UCMR1 21(B) | भाषा आणि कौश होका स | अर्ज लेखनः विनंती अर्ज | Multi Language Skills इतिवृत्त लेखन | Regional Language Skills टिप्पणी लेखन | Job Opportunity प्रशासनिक कौशल्य | PO8: Critical Thinking and Problem solving: PSO विद्यार्थ्यांची भाषिक कौशल्याच्या वापरासंबंधी ची क्षमता विकसित होईल. Coभाषिक क्षमता व कौशल्य |



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| EN(\$19mm) | | ।। सिध्दिरनेकान्तात।। | | | | |

| | | | | | | | आत्मसात करता येतील. |
|-----------------------------|----------------|---|---|--|--|--|--|
| S.Y.B. A. Sem. III | MARG EN2301 | आधुनि क मराठी साहि त्य आणि उपयो जित मराठी | Stories Languag e Skills KkuT;ks rh lkfo=hc kbZ Qqys % L=h gDdkpk iz.ksR;k &izk- gjh ujds | Multi Language Skills महर्षी /kksaMksa ds'ko dosZ % निष्काम deZ;ksxh& MkW- u- e- tks'kh | Regional Language Skills egkjktk l;kthjko xk;dokM % दूरदृष्ट्रा jktk&ckc k HkkaM | Transleters MkW- ckcklkgsc vkacsMdj % fo slkBh [kMrj izokl& /kuat; dhj | Po6; Self- directed and Life- long learning: Pso चरित्रात्मक लेखाचे आस्वाद आणि मूल्यमापन करण्याची क्षमता विद्यार्थांमध्ये निर्माण होईल. Co लेखकाच्या समग्र लेखक म्हणून अभ्यासाची जाण विकसित होईल. तसेच विविध साहित्य प्रवाहांची माहिती होईल. उश्या अशा अशा |



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| | | | | | | | आकलनक्षम तेत वाढ होईल. |
|-----------------------------|----------------|--|--|---|---|--|--|
| S.Y.B. A. Sem. III | MARSP L2302 | मराठी साहि त्याती ल विविध साहि त्य प्रवाह | Poetry Languag e Skills निवडक कथा व विविध वाड्मय प्रकारचा अभ्यास | Entreprene urs निवडक कादंबरी, व विविध वाड्मय प्रकारचा अभ्यास | Regional Language Skills निवडक कविता व विविध वाड्मय प्रकारचा अभ्यास | Transleters निवडक नियतकालिके विविध वाड्मय प्रकारचा अभ्यास | Po6. Self- directed and Life- long learning: Pso- लेखकाच्या समग्र लेखक म्हणून अभ्यासाची जाण विकसित होईल तसेच विविध साहित्य प्रवाहांची माहिती होईल व अशा अभ्यासाच्या आकलनक्षम तेत वाढ होईल. Co- आत्मचरित्र, आत्मकथन या वाड्मय प्रकाराचे विद्यार्थ्यांना आकलन होईल. |



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| S.Y.B. A. Sem. III S.Y.B. | MARSP L2303 | अर्वाची न मराठी वाड्म याचा इतिहा स (१८१८ ते १९२०) | Languag e & Literatur e Skill निवडक कथा व विविध वाड्मय प्रकारांचा अभ्यास | Multi Language Skills निवडक कादंबरी, व विविध वाड् प्रकारांचा अभ्यास | Regional Language Skills निवडक कविता व विविध वाड्मय प्रकारांचा अभ्यास Regional | Job Opportunity निवडक नियतकालिके विविध वाड्मय प्रकारांचा अभ्यास | Po4.Disci plinary Knowled ge: Pso-विशिष्ट कालखंडाती ल साहित्याच्या अभ्यासाच्या व्याप्ती बद्दल विद्यार्थ्यांची जाण वाढीस लागण्यास मदत होईल. Co- या संपूर्ण कालखंडाती ल निबंध, कविता, कथा, कवितत, कथा, वादंबरी, नाटक, चरित्र- आत्मचरित्र, या वाड्मय प्रकाराचे विद्यार्थ्यांना आकललन होईल. Po6; Self- |
|---------------------------------------|----------------|--|---|--|---|---|--|
| A. Sem. IV | EN2401 | आधुान क मराठी साहि त्य | Languag e Skills e;kZn'k hy | Language Skills eh vkf.k ek>s | Language Skills lkfgfR;d tM.k?kM. | foLrkj.kkjs f{kfrt& MkW- rkjk HkokGdj | directed and Life- long learning: |



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| | | आणि उपयो जित मराठी | thoukpk vkys[k & Jherh izfrHkkr kbZ ikVhy | ys[ku& MkW- ;w- e- iBk.k | k& jk- x- tk/ko | | Pso चरित्रात्मक लेखाचे आस्वाद आणि मूल्यमापन करण्याची क्षमता विद्यार्थांमध्ये निर्माण होईल. Co लेखकाच्या समग्र लेखक म्हणून अभ्यासाची जाण विकसित होईल. तसेच विविध साहित्य प्रवाहांची माहिती होईल व |
|----------------------------|----------------|--|--|---|---------------------------------------|--|--|
| S.Y.B. A. Sem. IV | MARSP L2402 | मराठी साहि त्याती ल विविध साहि त्य प्रवाह | Languag e Skills | Language Skills कादंबरी - "७२ मैल" अशोक व्हटकर | Entrepren eurs कादंबरीचे घटक | Regional Language Skills कादंबरीचे प्रकार | Anchor कथानक |



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| S.Y.B. A. Sem. IV | MARSP L2403 | अर्वाची न मराठी वाड्म याचा इतिहा स (१९२० ते १९६०) | Languag e Skills | Language & Literature Skill निवडक कथा व विविध वाड्मय प्रकारचा अभ्यास | Multi Language Skills निवडक कादंबरी, व विविध वाड्मय प्रकारचा अभ्यास | Regional Language Skills निवडक कविता व विविध वाड्मय प्रकारचा अभ्यास | Job Opportunit y निवडक नियतकालि के विविध वाड्मय प्रकारचा अभ्यास |
|----------------------------|----------------|--|--|---|---|--|--|
| S.Y.B. A. Sem. IV | PR-1 | Projec t-1 | Languag e Skills विविध भाषिक कौशल्य | Multi Language Skills ग्रंथ परीक्षण | Regional Language Skills कविता | Global अनुवाद कौशल्य | PO3: Social competenc e: PSO. विद्यार्थ्यांची चिकित्सक अभ्यासाची क्षमता विकसित होईल. Co- कौशाल्याची क्षमता विकसित होईल. Co- कौशाल्याची क्षमता विकसित होईल. |
| T.Y.B. A. Sem.V | MARG EN3501 | आधुनि क मराठी साहि त्य प्रकारां चा अभ्या स | Stories Languag e Skills 'उद्याच्या सुंदर दिवसांसा ठी' - डॉ. नागनाथ कोत्ताप ल्ले, | Multi Language Skills ग्रंथ परीक्षण | Regional Language Skills ललित गद्य स्वरूप | Transleters संवाद कौशल्य | PO6: Self- directed and Life- long learning: pso - साहित्याच्या लक्षणांबाबत विचारांची आणि |



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| TYD | | | | | | | वाड्मयीन मूल्यमापना च्या दृष्टीची समज विकसित होईल. co- विद्यार्थ्यांची वाङ्मयीन अभिरुची विकसित झाल्याने साहित्यकृती च्या गुणात्मक मूल्यांची जाणीव होईल |
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| T.Y.B. A. Sem.V | MARSP L3502 | साहि त्य विचार | Languag e Skills व्यवहार भाषा, शास्त्रीय साहित्या ची भाषा व साहित्या ची भाषा यांच्याती ल भेद | Multi Language Skills कलावादी व जीवनवादी या दृष्टीने प्रयोजन विचार | 1. Re gi on al La ng ua ge Sk ill s सा हि रग च र ब्र | आस्वादक | PO4: Discip linary Knowledge : pso- साहित्याच्या लक्षणांबाबत विचारांची आणि वाड्मयीन मूल्यमापना च्या दृष्टीची समज विकसित होईल. |



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| E-mail : principal.tccollege@gmail.com | Religious Minority Institute | NAAC Reaccredited 'A+' Grade, CGPA 3.55 |
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| ENG213month | | ।। सिथ्दिरनेकान्तात्।। |

| | | | | | स्व रू प | | co- साहित्याची निर्मिती प्रक्रिया व आस्वाद प्रक्रियेचे स्वरूप लक्षात येईल. |
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| T.Y.B. A. Sem.V | MARSP L3503 | मराठी चा भाषि क अभ्या स | Languag e Skills बहुभाषि कत्व | Multi Language Skills भाषाभेद | Regional Language Skills बोलीभूगो ल | Transleters अनुवाद | PO4: Discip linary Knowledge : psoविद्यार्थ्यां ची भाषिक अभिव्यक्ती सुधारण्यास तसेच पर्यायाने समाजाची भाषिक अभिवृद्धी विकसित होण्याची प्रक्रिया सुरू होईल. co-भाषा कुलाची संकल्पना समजेल. |
| T.Y.B. A. Sem.V | UAMRS EC SEC-3 | लेखन विषय क नियम | Languag e Skills | Multi Language Skills | Regional Language Skills | Job Opportunity | |



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| T.Y.B. A. Sem.V I | MARG EN3601 | आधुनि क मराठी साहि त्य प्रकारां चा अभ्या स | Stories Languag e Skills "दोन चाक आणि मी' -लेखक- हृषीकेश पाळंदे, | Multi Language Skills प्रवा सवर्णनाचे घटक | Regional Language Skills प्र वास वर्णनाची परंपरा | Transleters प्रवासवर्णनका र | PO6: Self- directed and Life- long learning: pso- साहित्यकृती च्या, साहित्यप्रका रांच्या, तौलनिक अभ्यासाची दिशा, व्याप्ती व मर्यादा याबाबतीत समज निर्माण होण्यास मदत होईल. co- विद्यार्थ्यांची साहित्यप्रका रांचा तौलनिक अभ्यास करण्याची साहित्यप्रका रांचा तौलनिक अभ्यास विकसीत होईल. |
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| T.Y.B. A. Sem.V I | MARSP L3602 | साहि त्य विचार | Languag e Skills आस्वाद काचे गुण | Multi Language Skills लेखक, वाचक | Regional Language Skills अभिरुची नियंत्रित | Transleters साहित्य प्रकार संकल्पना | PO8: Critical Thinking and Problem |



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| T.Y.B. A. Sem.V I | MARSP L3603 | मराठी चा भाषि क अभ्या स | Languag e Skills स्वन विज्ञान | आणि भाषा यांची सामाजिक ता Multi Language Skills अर्थाचे विविध प्रकार | करणारे घटक Regional Language Skills स्वनिम निश्चितीची तत्वे | Transleters रूपिमाचे प्रकार | solving: p s o - वाड्मयीन व सामाजिक प्रश्नांसंबंधी विचार करण्याची जाण वाढीस लागेल co- समाजनिष्ठ साहित्य अभिजात साहित्य असते हे समजेल. PO4:Discip linary Knowledge : p so - मराठी भाषा आणि वाड्मयाविष यीचे प्रगत ज्ञान होईल. co- मराठी भाषेची उत्पत्ती व विकास याचे आकलन होईल. |
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| T.Y.B. A. Sem.V I | PR-1 | Projec t-1 | Languag e Skills | Multi Language Skills | Regional Language Skills | Global अनुवाद कौशल्य | PO3: Social competenc e: PSO. |





| | | | भाषिक कौशल्य चरित्र,आ त्मचरित्र | ग्रंथ परीक्षण | कविता | | विद्यार्थ्यांची चिकित्सक अभ्यासाची क्षमता विकसित होईल. Co- भाषिक कौशल्याची क्षमता विकसित होईल. |
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| S.Y.BS .C. Sem. III | MAR23 01A | मराठी विज्ञान साहि त्य आणि व्याव हारिक मराठी | Stories Languag e Skills विज्ञान कथा | Multi Language Skills वैज्ञानिक दृष्टी | Regional Language Skills तार्किकता | अनुमान | PO8: Critical Thinking and Problem solving: PSO- साहित्पाच्या अभ्यासातून विद्यार्थ्यांच्या सूक्ष्म, विदरलेषक व चिकित्सक अभ्यास करण्याच्या क्षमतेमध्ये वाढ होईल. co- वैज्ञानिक जाणीवा विकसित होतील. |



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| S.Y.BS .C. Sem. VI | MAR24 01A | मराठी विज्ञान साहि त्य आणि व्याव हारिक मराठी | Stories Languag e Skills विज्ञान कथा | Multi Language Skills वैज्ञानिक जाणीव | Regional Language Skills वैज्ञानिक दृष्टिकोन | Transleters वैज्ञानिकता | PO8: Critical Thinking and Problem solving: PSO- साहित्याच्या अभ्यासातून विद्यार्थ्यांच्या सूक्ष्म, विदरलेषक व चिकित्सक अभ्यास करण्याच्या क्षमतेमध्ये वाढ होईल. co- जीवनामध्ये विज्ञानाचा सुयोग्य वापर करायला शिकतील. |
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| M. A. I Sem.I | PAMR1 11 | व्याव हारिक आणि उपयो जित मराठी भाग- १ | Languag e Skill मुद्रित शोधन | Multi Language Skills प्रमाणलेखन | Regional Language Skills मुलाखत लेखन | Job Opportunityti es मुलाखतकार, मुद्रितशोधक | PO4:Discip linary Knowledge : PSO. भाषेचे विविध व्यवहार आणि साहित्याच्या |



| महाविद्यालय, बारामती | ।। सिध्दिलेकान्तात्।। Anekant Education Society's TULJARAM CHATURCHAND COLLEGE of Arts, Science and Commerce, Baramati - 413102. | | | | | |
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| M. A. I | PAMR1 12 | मध्ययु गीन | Literatur e Skill | Literature Knowledg | Regional Language | Job Opportunity | संदर्भातील भाषा व्यवहार याविषयीची आकलनाची क्षमता विकसित होईल. co- व्यवहारिक व उपयोजित भाषेची ओळख होईल तसेच कौशल्य विकसित होतील. Po1 Research- |
|------------|-------------|--|-------------------------|--------------------------------------|-------------------------------------|--------------------|--|
| Sem.I | 12 | गान मराठी वाड्म याचा इतिहा स (प्रारंभ ते १६००) | वाड्मया चा इतिहास | e Skill विविध वाड्मय प्रकार | Skills विविध वाड्मय वाटचाल | लेखक | Related Skills: pso- विशिष्ट कालखंडाती ल साहित्याच्या अभ्यासाच्या व्याप्ती बद्दल विद्यार्थ्यांची जाण वाढीस लागण्यास मदत होईल. co- मराठी भाषेची उत्पत्ती |



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| M. A. I Sem.I | PAMR1 13 | भाषा विज्ञान - त्मक | Languag e Skills स्वन विज्ञान | Multi Language Skills अर्थाचे विविध प्रकार | Regional Language Skills स्वनिम निश्चितीची तत्वे | Transleters बहुभाषिक | विकास व स्थित्यंतराची ओळख होईल. Pol Research- Related Skills: pso- विद्यार्थ्यांची भाषिक अभिव्यक्ती सुधारण्यास तसेच पर्यायाने समाजाची भाषिक अभिवृद्धी |
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| | | | | | | | होण्याची प्रक्रिया सुरू |
| | | | | | | | होईल. |
| | | | | | | | co- विद्यार्थ्यांना |
| | | | | | | | ावधाय्याना शास्त्रीय |
| | | | | | | | दृष्ट्या |
| | | | | | | | भाषेचा |
| | | | | | | | परिचय चोर्चन |
| M. A. | PAMR1 | ग्रामीण | Languag | Multi | Social & | Author | होईल. PO3: Social |
| I | 14 | त्रामाण साहि | e Skill | Language | Regional | ग्रामीण | competenc |
| Sem.I | | त्य | ग्रामीण | विविध | Language | लेखकांचा | e: pso- |
| | | | कथा | बोलींचा | Skills सामाजिक | अभ्यास | लेखकाच्या |
| | | | | अभ्यास | सामाजिक बांधिलकी | | समग्र लेखक म्ह्यान |
| | | | | | | | म्हणून |



| भारता विद्यालय सारामती | ।। सिध्दिरनेकान्तात्।। Anekant Education Society's TULJARAM CHATURCHAND COLLEGE of Arts, Science and Commerce, Baramati - 413102. | | | | |
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| E-mail : principal.tccollege@gmail.com | Religious Minority Institute | NAAC Reaccredited 'A+' Grade, CGPA 3,55 | | | |
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| | | | | | | | अभ्यासाची जाण विकसित होईल तसेच विविध साहित्य प्रवाहांची माहिती होईल व अशा अभ्यासाच्या आकलनक्षम तेत वाढ होईल. co-ग्रामीण कथा कादंबरी व साहित्याचे आकलन |
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| M. A. I Sem.II | PAMR1 21 | व्याव हारिक आणि उपयो जित मराठी भाग- २ | Languag e Skill निवेदन कौशल्य | Multi Language Skills भाषांतर | Language Skills Print, Radio & Television Media Etc. skills अनुवादक | Language Based Job Opportunities जनसंपर्कअधि कारी | होईल.PO5:Personalandprofessionalcompetence:pso-लेखन-संपादन,लेखनविद्या -,भाषांतर,रूपांतर,रूपांतर,अनुवाद,वक्तृत्व |



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| M. A. I | PAMR1 22 | मध्ययु गीन | Languag e Skill | Multi Language | Literature Developm | Language Based Job | कला, नाट्यकला, या अभिव्यक्ती च्या आविष्कार प्रकार व प्रक्रियांविष यी तसेच त्यासंबंधीची माहिती होईल. co-भाषेच्या माध्यमातून चालणाऱ्या व्यवसायाची ओळख होईल. Po1 Research- |
|------------|-------------|--|----------------------------------|---|--|--------------------------|--|
| Sem.II | | गान मराठी वाड्म याचा इतिहा स (प्रारंभ १६०० ते १८१८) | कथा कादंबरी नाटक चरित्र | Language Skills विविध वाड्मयाचा परिचय | nt Skills साहित्य प्रकार, वाटचाल, आलेख | Opportunities समीक्षक | Related Skills: pso- साहित्याविष यीची प्राचीन, मध्ययुगीन, आधुनिक, भारतीय व पाश्चात्य विचारांबाबत समज वाढविण्यास मदत होईल. co-मराठी वाड्मयाची |



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| | ।। सिध्दिलेकान्तात्।। Anekant Education Society's | | | | | |

| | | | | | | | ऐतिहासिक सामाजिक धार्मिक आणि राजकीय पार्श्वभूमी लक्षात येईल. |
|----------------------|-------------|-------------------------------------|---------------------------------------|---|---|--|---|
| M. A. I Sem.II | PAMR1 23 | भाषा विज्ञान - सामा जिक | Languag e Skills सामजिक बोली | Multi Language Skills समाज आणि मानसशास्त्र | RegionalLanguageSkillsस्तियांचीभाषापुरुषांचीभाषा | Transleters ৰहुभाषिक | PO3: Social competenc e: pso-भाषेचे विविध व्यवहार आणि साहित्याच्या व समाजाच्या संदर्भातील भाषा व्यवहार याविषयीची आकलनाची क्षमता विकसित होईल. co- भाषा आणि समाज यांचा परस्पर संबंध लक्षात येईल. |
| M. A. I Sem.II | PAMR2 14 | दलित साहि त्य | Languag e Skill दलित कथा | Multi Language Skills दलित कविता | Social & Regional Language Skills | Language Based Job Opportunities विश्लेषक | PO8: Critical Thinking and |



| म्हाविद्यालय, बादामती | ।। सिघिरनेकान्तात्।। Anekant Education Society's TULJARAM CHATURCHAND COLLEGE of Arts, Science and Commerce, Baramati - 413102. | | | | | |
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| | | | | | दलित आत्मकथन | | Problem solving: pso-एक जबाबदार नागरिक या दष्टीने नैतिक व सामाजिक मूल्ये, साहित्य व सांस्कृतिक मूल्ये, राष्ट्रीय मूल्योंचे संवर्धन व समाजभान याविषयीची |
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| | | | | | | | विद्यार्थ्यांची जाणीव विकसित |
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| | | | | | | | स्वरूप संकल्पनांचा परिचय होईल. |
| M. A. II Sem.II I | MAR53 01 | प्रसार माध्यमे आणि साहि त्य व्यवहा | Languag e Skill वृतपत्राती ल भाषा | Multi Language Skillsचित्रप टातील भाषा | Social & Regional Language Skills समाज माध्यम | Language Based Job Opportunities संपादक, दिग्दर्शक | PO8: Critical Thinking and Problem solving: pso- |
| | | र | | | माष्पम | | वाड्मयीन व सामाजिक |



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| | | | | | मधील भाषा | | प्रश्नांसंबंधी विचार करण्याची जाण वाढीस लागेल. co- विद्यार्थ्यांना मराठीतील वैचारिक साहित्याची ओळख होईल. |
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| M. A. II Sem.II I | MAR53 02 | साहि त्य समीक्षा | Languag e Skill समीक्षका चे गुण | Multi Language Skills समीक्षकाचे पत्थे | Social & Regional Language Skills समीक्षेच्या विविध पद्धती | Language Based Job Opportunities समीक्षक विचारवंत | PO3: Social competenc e and communic ation skills: PSO. विद्यार्थ्यांची भाषिक अभिव्यक्ती सुधारण्यास तसेच पर्यायाने समाजाची भाषिक अभिवृद्धी विकसित होण्याची प्रक्रिया सुरू होईल. co- समाजामध्ये |



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| M. A. II Sem.II I | MAR53 03 | विशेष लेख काचा अभ्या स – मध्ययु गीन | Languag e Skill 현खन বীਲੀ | Multi Language Skills लेखकाची जडणघडण | Social & Regional Language Skills लेखकाची सामाजिक ता सांस्कृतिक परिप्रेक्ष | Language Based Job Opportunities जीवन विषयक दृष्टिकोन | PO5: Personal and profession al competenc e: pso- लेखन- संपादन, लेखनविद्या -, भाषांतर, रूपांतर, अनुवाद, वक्तृत्व कला, नाट्यकला, या अभिव्यक्ती च्या आविष्कार प्रक्रियांविष य अनिवर्धा वक्तृत्व कल्ला, नाट्यकला, पा अभिव्यक्ती च्या आविष्कार प्रक्रियांविष यी तसेच त्यासंबंधीची माहिती होईल. co- हक- श्राव्य माध्यमांसाठी लेखन |



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| ।। सिव्दिरनेकान्तात्।। Anekant Education Society's TULJARAM CHATURCHAND CO | |

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| Sem.II | | साहि | वैचारिक | Skills | Language | Opportunities | 1 |
| Ι | | त्य | लेखक | संत पंत तंत | Skills | प्रवचनकार | : |
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| तुळजाराम चतुरचेव महाविद्यालय, यारायली Prof. Dr. Avinash S. Jagtan | of Arts, Science | and Commerce, Baramati - 413102. |
| a laste trajliner tilmening | | CHATURCHAND COLLEGE |
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| M. A. II Sem.II I | SDC-1 | भाषि क कौरा त्ये | Languag e Skills भाषिक कौशल्य | Multi Language Skills लेखन कौशल्य | Regional Language Skills संकलन | Transleters | PO2: Effective Citizenship and Ethics: pso- लेखकाच्या समग्र लेखक म्हणून अभ्यासाची जाण विकसित होईल तसेच विविध साहित्य प्रवाहांची माहिती होईल व अशा अभ्यासाच्या आकलनक्षम तेत वाढ होईल. |



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| ENG213month | | ।। सिथ्दिरनेकान्तात्।। |

| | | | | | | | ^{co-} लेखकाचा लेखन प्रवास जाणून घेतल्यामुळे विद्यार्थ्यांना वाङ्मयीन निर्मितीची आणि आस्वादाची प्रेरणा मिळेल. |
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| M. A. II Sem IV | MAR54 01 | प्रसार माध्यमे आणि साहि त्य व्यवहा र | Languag e Skill वृतपत्राती ल भाषा | Multi Language Skills चित्रपटाती ल भाषा पटकथा लेखन | Social & Regional Language Skills समाज माध्यम मधील भाषा | Language Based Job Opportunities संपादक, दिग्दर्शक पटकथा लेखक | PO2: Effective Citizenship and Ethics: pso-एक जबाबदार नागरिक या दृष्टीने नैतिक व सामाजिक मूल्ये, नैतिक व सामाजिक मूल्ये, साहित्य व सांस्कृतिक मूल्ये, राष्ट्रीय मूल्ये, राष्ट्रीय मूल्ये, राष्ट्रीय मूल्ये, राष्ट्रीय मूल्ये, राष्ट्रीय मूल्ये, राष्ट्रीय संदर्धन पर्यावरण संदर्धन पर्यावरण संदर्धन, समा जभान याविषयीची विद्यार्थ्यांची |



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| मुळजाराम चतुरचेत महाविद्यालम, बारामती Prof. Dr. Avinash S. Jagtap M.Sc. Ph.D. | of Arts, Science | CHATURCHAND COLLEGE and Commerce, Baramati - 413102. Dist. Pune. Maharashtra, India. powered Autonomous Status |
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| M. A. II Sem | MAR54 02 | साहि त्य संशोध न | Languag e Skill संशोधका चे गुण | Multi Language Skills संशोधन परंपरा | Social & Regional Language Skills अंतर्विद्या क्षेत्रीय संशोधन | Language Based Job Opportunities संशोधक | जाणीव विकसित होई ल. - 0- विद्यार्थ्यांना मराठीतील साहित्याचे साहित्याचे सामाजिक स्वरूप लक्षात येई ल PO6: Self- directed and Life- long learning: PSO. विद्यार्थ्यांची भाषिक अभिव्यक्ती सुधारण्यास तसेच पर्यायाने समाजाची भाषिक अभिवृद्धी विकसित होण्याची प्रक्रिया सुरू होई ल. - 0- समाजामध्ये प्रभावीपणे भाषा वापर |
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| M. A. II Sem | MAR54 03 | विशेष लेख काचा अभ्या स – मध्ययु गीन | Languag e Skill लेखन शैली | Multi Language Skills लेखकाची जडणघडण | Social & Regional Language Skills लेखकाची सामाजिक ता सांस्कृतिक परिप्रेक्ष | Language Based Job Opportunities जीवन विषयक दृष्टिकोन | PO8: Critical Thinking and Problem solving: pso- वाड्मयीन व सामाजिक प्रश्नांसंबंधी विचार करण्याची जाण वाढीस लागेल. co- विद्यार्थ्यांना मराठीतील वैचारिक साहित्याची ओळख होईल. |
| M. A. II Sem | MAR54 04 | साहि त्याचा सामा जिक दृष्टीने अभ्या स | Languag e Skill लेखका ची सामाजि कता | Multi Language Skills सामाजिक बांधिलकी | Social & Regional Language Skills लेखक वाचक आणि भाषा सहसबंध | Language Based Job Opportunities संशोधक | PO2: Effective Citizenship and Ethics: pso-एक जबाबदार नागरिक या दृष्टीने नैतिक व सामाजिक मूल्ये, |



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| | | | | | | | co- विद्यार्थ्यांची चिकित्सक अभ्यासाची क्षमता विकसित होईल. |
| M. A. II Sem | PR-1 | Projec t-1 | शिस्तब द्ध लेखन | मुद्देसुद्पणा | स्थानिक गरज | संशोधक | PO3: Social competenc e and communic ation skills: PSO. विद्यार्थ्यांची भाषिक अभिव्यक्ती सुधारण्यास तसेच पर्यायाने समाजाची भाषिक अभिवृद्धी विकसित होण्याची प्रक्रिया सुरू होईऌ. |



| ्रिक्रास्तम् प्रकारियालय, पारास्त प्रकारियालय, पारास्त Prof. Dr. Avinash S. Jagtap | TULJARAM C of Arts, Science | ।। सिध्दिरनेकान्तात्।। nekant Education Society's CHATURCHAND COLLEGE and Commerce, Baramati - 413102. Dist. Pune. Maharashtra, India. |
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PHILOSOPHY & LOGIC

| Progra mme | Cour se | Course Title | - | Topic in the syllabus which has relevance to the developmental needs | | | |
|---|-------------|---------------------------------------|--|---|---|---|---|
| | Code | | Local | National | Regional | Global | |
| | | | | | | | |
| BA Philoso phy & Logic (UG) | UAP H111 | Introdu ction to Philoso phy | Value of philosoph y, Definition of knowledg e | Value of philosoph y, Definition of knowledg e, Introducti on to nine Darsanas | Value of philosoph y, Introducti on to nine Darsanas | Value of philosoph y, Definition of knowledg e, Introducti on to nine Darsanas | PO1: Acade mic Comp etence : Explor e various branch es of Philos ophy and their interrel ations CO1: The study of Philos ophy helps the student |



| UAP H121 Woral Areas of PH121 Areas of Moral Areas of Philoso Ethics Ethics Ethics Areas of Areas of C01:Studies cities CO2: Studen ts competence: Apply cthics Ethics Ethics C01:Studies cthics CO2: Studen ts competence: Apply cthics Ethics Ethics | | | | r | | | | | | I |
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| UAP H121Moral Philoso phyAreas EthicsAreas FactorsAreas FactorsAreas FactorsPO1:Entrepre neurial and technic al termin ologies cUAP H121Areas PhilosoAreas EthicsAreas FactorsAreas FactorsAreas FactorsAreas FactorsCO1:Studies cUAP H121Areas PhilosoAreas FactorsAreas FactorsAreas FactorsAreas FactorsCO1:Studies cUAP H121Areas PhilosoAreas FactorsAreas FactorsAreas FactorsAreas FactorsCO1:Studies cUAP H121FactorsAreas FactorsAreas FactorsAreas FactorsAreas FactorsCO1:Studies c | | | | | | | | | | |
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| मुळजाराम चतुरचेत महाविद्यालम, बारामती Prof. Dr. Avinash S. Jagtap M.Sc. Ph.D. | ।। सिध्दिरनेकान्तात्।। Anekant Education Society's TULJARAM CHATURCHAND COLLEGE of Arts, Science and Commerce, Baramati - 413102. Dist. Pune. Maharashtra, India. | | | | |
| | | | | | |

| | | | | | | and on a large scale. This helps students to judge our day-to-today practical issues quite reasonably. CO2:To rise social awareness |
|-------------|---|---|---|---|---|---|
| UAL O111 | Traditio n Logic (Deduc tive Logic) | Deductive and Inductive branches of logic | Deductive and Inductive branches of logic | | | CO1: Students get acquainted with the use of logical rules for identifying a valid argument CO2: Encourage of reason |
| UAL O121 | Traditio n Logic (Inducti ve Logic) | Scientific Explanati on- Kinds of scientific Explanati on | Scientific Explanati on- Kinds of scientific Explanati on | Scientific Explanati on- Kinds of scientific Explanati on | Scientific Explanati on- Kinds of scientific Explanati on | PO1: Research Competence :Logically assess the arguments with reference to |



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| | | | | | | their comparative strengths and weakness CO1: Students can understand characteristic s of science CO2: Students well know how we can research scientifically CO3: Students can use the skills in competitive exam |
|--------------|---------------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|---|
| PHIL 2301 | Philoso phy of Indian Saints | Conceptio n of a Saint | Conceptio n of a Saint | Conceptio n of a Saint | Conceptio n of a Saint | CO1: Enhances critical thinking of students CO2: Understand key |
| | | | | | | Philosophical foundation of |



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| | | | | | | the Saints intellectual tradition, particularly insofar the tradition has addressed issues of basic Philosophy. CO3: To acquaint the student with the metaphysical, |
|--------------|-------------------|-----------------------|---------------------|-----------------------|---------------------|---|
| PHIL 2401 | Philoso phy of | Conceptio n of God | Significan ce of | Conceptio n of God | Significan ce of | Stereological and social approaches of selected saints. CO1: Enhances |
| | Indian Saints | | Pasaydan | | Pasaydan | critical thinking of students CO2: To acquaint the student with the metaphysical, Stereological |



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| | | | | | and social approaches of selected saints |
|--|---------------------------|--------------------|---------------------------|--------------------|---|
| HIL Indian 302 & Wester n Philoso phy | Carvaka Philosoph y | Theory of Forms | Carvaka Philosoph y | Theory of Forms | PO1:Academ ic Competence: (i) Know core issues, problems and concerns in both Indian and Western traditions. (ii) Develop the skills for oral and written communicati on with special reference to the quality and organisation of the content CO1: The study of Philosophy helps the students to get acquainted |



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| | | | with different |
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| | | | |
| | | | schools of |
| | | | Indian |
| | | | philosophy |
| | | | like Cārvāka, |
| | | | Jainism and |
| | | | Buddhism as |
| | | | Nāstika |
| | | | schools on the |
| | | | other hand, |
| | | | Sāṁkhya, |
| | | | Yoga, Nyāya, |
| | | | Vaiśeșika, |
| | | | Mimāmsā |
| | | | and Vedānta |
| | | | as Āstika |
| | | | school, on the |
| | | | other hand |
| | | | |
| | | | CO2: Know |
| | | | core issues, |
| | | | problems and |
| | | | concerns in |
| | | | both Indian |
| | | | and Western |
| | | | traditions. |
| | | | CO2. T- |
| | | | CO3: To |
| | | | teach students |
| | | | the |
| | | | Importance of |
| | | | Moral |
| | | | Behavior and |
| | | | Familiarise |



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| Bitting and and | | ।। सिध्दिरनेकान्तात्।। | | | |

| | | | | | them with the resolution of Value conflicts in today's life. |
|--------------|----------------------|----------------------|----------------------|----------------------|---|
| PHII 2402 | Four noble truths | Four noble truths | Four noble truths | Four noble truths | CO1:Student s get acquainted with the epistemologi cal and metaphysical theories of the western philosophers like Socrates, Plato, Descartes, Spinoza, Leibnitz , Locke, Berkeley Hume and Kant. CO2: Know core issues, problems and concerns in both Indian |



| разан тариан тара состати часта состати часта состати часта состати с | TULJARAM CHATURCHAND COLLEGE of Arts, Science and Commerce, Baramati - 413102. Dist. Pune. Maharashtra, India. Empowered Autonomous Status | | | | |
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| | | | | | | and Western traditions. |
|------|---------|------------|-----------|-----------|-----------|-------------------------|
| PHIL | Jain | А | Nature of | Nature of | Six | PO1: |
| 2303 | Philoso | Historical | Anekanta | Anekanta | Dravyas (| Entrepreneuri |
| | phy | Developm | vada | vada | Jiva, | al and Social |
| | | ent of | | | Pudgal, | Competence: |
| | | Jainism | | | Dharma, | Identify |
| | | | | | Adharma, | ethically |
| | | | | | Akasa, | relevant |
| | | | | | Kala) | issues in |
| | | | | | | contemporary |
| | | | | | | life and to |
| | | | | | | deliberate |
| | | | | | | over them |
| | | | | | | CO1: Learn |
| | | | | | | to use Jain |
| | | | | | | Philosophical |
| | | | | | | theories to |
| | | | | | | analyse |
| | | | | | | situations and |
| | | | | | | inform |
| | | | | | | Judgments |
| | | | | | | about |
| | | | | | | Actions. |
| | | | | | | CO2: |
| | | | | | | Comprehend |
| | | | | | | the theory of |
| | | | | | | reality of the |
| | | | | | | systems of |
| | | | | | | Jain |
| | | | | | | philosophy |
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| PHIL 2403 | Jain Philoso phy | Jain Dhyan and Yoga | Jain Dhyan and Yoga | Jain Dhyan and Yoga | Jain Dhyan and Yoga | CO1: Learn to use Jain Philosophical theories to analyse situations and inform Judgments about |
|--------------|------------------------|---------------------------|---------------------------|---------------------------|---------------------------|--|
| | | | | | | Actions. CO2: Comprehend the theory of reality of the systems of Jain philosophy |
| | | | | | | PO1:Entrepr eneurial and Social Competence : Develop an |
| | | | | | | open minded approach and an attitude of respect for |



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| | | | | | | diverse opinions |
|------|--------|----------|----------|----------|----------|---------------------|
| LOG2 | Formal | Symbolic | Symbolic | Symbolic | Symbolic | PO1: |
| 301 | Logic | Logic | Logic | Logic | Logic | Personal and |
| | | | | | | Professional |
| | | | | | | Competence |
| | | | | | | : Process |
| | | | | | | information |
| | | | | | | in a logically |
| | | | | | | consistent |
| | | | | | | manner so as |
| | | | | | | to come up |
| | | | | | | with their |
| | | | | | | own position |
| | | | | | | about a |
| | | | | | | certain topic. |
| | | | | | | CO1:Student |
| | | | | | | s get |
| | | | | | | acquainted |
| | | | | | | with the use |
| | | | | | | of logical |
| | | | | | | rules for |
| | | | | | | identifying a valid |
| | | | | | | argument. |
| | | | | | | Along with |
| | | | | | | these, they |
| | | | | | | also learn |
| | | | | | | existential |
| | | | | | | import, |
| | | | | | | symbolic |
| | | | | | | interpretation |



| | | | , constructing |
|--|--|--|----------------|
| | | | formal proof |
| | | | of .validity, |
| | | | proving |
| | | | invalidity, |
| | | | Quantificatio |
| | | | n theory |
| | | | - |
| | | | CO2: Studies |
| | | | of logic |
| | | | improve the |
| | | | analytical |
| | | | skills and |
| | | | knowledge of |
| | | | the formal |
| | | | techniques of |
| | | | evaluating |
| | | | arguments |
| | | | and |
| | | | deductive. |
| | | | |
| | | | CO3: One |
| | | | learns to |
| | | | validate both |
| | | | knowledge |
| | | | gained and |
| | | | the sources of |
| | | | knowledge |
| | | | through |
| | | | various |
| | | | prescribed |
| | | | means. |
| | | | |





| LOG2 | Formal | Predicate | Predicate | Relational | PO1: |
|------|--------|-----------|-----------|------------|----------------|
| 401 | Logic | Logic | Logic | Logic | Research |
| | | | | | Competence |
| | | | | | : Logically |
| | | | | | assess the |
| | | | | | arguments |
| | | | | | with |
| | | | | | reference to |
| | | | | | their |
| | | | | | comparative |
| | | | | | strengths and |
| | | | | | weaknesses. |
| | | | | | CO1:Student |
| | | | | | s get |
| | | | | | acquainted |
| | | | | | with the use |
| | | | | | of logical |
| | | | | | rules for |
| | | | | | identifying a |
| | | | | | valid |
| | | | | | argument. |
| | | | | | Along with |
| | | | | | these, they |
| | | | | | also learn |
| | | | | | existential |
| | | | | | import, |
| | | | | | symbolic |
| | | | | | interpretation |
| | | | | | , constructing |
| | | | | | formal proof |
| | | | | | of .validity, |
| | | | | | proving |
| | | | | | invalidity, |



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| | | | | | | Quantificatio n theory CO2: Studies of logic improve the analytical skills and knowledge of the formal techniques of evaluating arguments and deductive. |
|--------------|-------------------------------------|--|----------|--|--|---|
| PHIL 3501 | Modern Indian Philoso pher | Thoughts about Shudras and Women | Sarvoday | Thoughts about Shudras and Women Thoughts about Education | Sarvoday Thoughts about Education | CO1: Become effective writers, including writers of high-quality academic prose. CO2: They also study the basic concepts of society, nature and role of family |



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| | | | | | | in society and different theories regarding the relation between individual and society. They also learn about secularism, nature and progress of Social changes, different theories of social changes, discussion |
|------|-------------------|----------------|----------------|----------|----------|---|
| | | | | | | about different political |
| | | | | | | ideals |
| PHIL | Modern | A | A | Democrac | Democrac | CO1: |
| 3601 | Indian Philoso | Mysticism | Mysticism | У | У | Become effective |
| | pher | as a Method | as a Method | | | writers, |
| | Pirer | | uuuu | | | including |
| | | | | | | writers of |
| | | | | | | high-quality |



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| | | | | | | academic prose. CO2: Helps students to love human being only without seeing their caste, creed, religion, etc. CO3: Studies |
|--------------|--|--|--|--|--|---|
| | | | | | | the philosophy of great Indian leaders like Radhakrishna n, Rabindranath Tagore, Iqbal, Ambedkar, etc |
| PHIL 3502 | Indian & Wester n Philoso phy | Nyaya Darshan, Vaisheshi k Darshan, Shankarac harya's Darshan, Ramanuja | Nyaya Darshan, Vaisheshi k Darshan, Shankarac harya's Darshan, Ramanuja | Nyaya Darshan, Vaisheshi k Darshan, Shankarac harya's Darshan, Ramanuja | Nyaya Darshan, Vaisheshi k Darshan, Shankarac harya's Darshan, Ramanuja | PO1: Academic Competence : (i) Know core issues, problems and concerns in both Indian and Western |



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| charya's & | charya's & | charya's & | charya's & | traditions. (ii) |
|------------|------------|------------|------------|------------------|
| madhavac | madhavac | madhavac | madhavac | Develop the |
| harya's | harya's | harya's | harya's | skills for oral |
| Darshan | Darshan | Darshan | Darshan | and written |
| | | | | communicati |
| | | | | on with |
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| | | | | reference to |
| | | | | the quality |
| | | | | and |
| | | | | organisation |
| | | | | of the |
| | | | | content. |
| | | | | CO1: The |
| | | | | study of |
| | | | | Philosophy |
| | | | | helps the |
| | | | | students to |
| | | | | get |
| | | | | acquainted |
| | | | | with different |
| | | | | schools of |
| | | | | Indian |
| | | | | philosophy |
| | | | | like Cārvāka, |
| | | | | Jainism and |
| | | | | Buddhism as |
| | | | | Nāstika |
| | | | | schools on the |
| | | | | other hand, |
| | | | | Sāṁkhya, |
| | | | | Yoga, Nyāya, |
| | | | | Vaiśeșika, |



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| | | | | | | Mimāmsā and Vedānta as Āstika school, on the other hand CO2: To teach students the Importance of Moral Behavior and Familiarise them with resolution of Value conflicts in today life |
|--------------|--|---|---|---|---|---|
| PHIL 3602 | Indian & Wester n Philoso phy | Locke, Berkeley Hume and Kant. | Locke, Berkeley Hume and Kant. | Locke, Berkeley Hume and Kant. | Locke, Berkeley Hume and Kant. | PO1: Research Competence : (i) Critically evaluate approaches, theories, positions, norms, values. (ii) Analyse concepts and to trace their historical development. |



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| | | | | | | CO1:Student |
|------|---------|------------|------------|-------------|-------------|-----------------|
| | | | | | | s get |
| | | | | | | acquainted |
| | | | | | | with the |
| | | | | | | epistemologi |
| | | | | | | cal and |
| | | | | | | metaphysical |
| | | | | | | theories of the |
| | | | | | | western |
| | | | | | | philosophers |
| | | | | | | like Socrates, |
| | | | | | | Plato, |
| | | | | | | Descartes, |
| | | | | | | Spinoza, |
| | | | | | | Leibnitz , |
| | | | | | | Locke, |
| | | | | | | Berkeley |
| | | | | | | Hume and |
| | | | | | | Kant. |
| | | | | | | СО2: То |
| | | | | | | introduce |
| | | | | | | Ancient and |
| | | | | | | Medieval |
| | | | | | | Greek |
| | | | | | | Philosophy as |
| | | | | | | an academic |
| | | | | | | discipline to |
| | | | | | | students. |
| | | : | : | | | |
| PHIL | Jain | Jain Sects | Jain Sects | Introspecti | Introspecti | CO1: Learn |
| 3503 | Philoso | and Their | and Their | on of Jains | on of Jains | to use Jain |
| | phy | Philosoph | Philosoph | on or sams | | Philosophical |
| | Phy | y | y | | | theories to |



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| | | | | | | analyse situations and inform Judgments about Actions. CO2: Comprehend the theory of reality of the systems of Jain philosophy |
|--------------|-----------------|----------------|----------------|---------------------|----------------|--|
| PHIL 3603 | Jain Philoso | Meditatio n | Meditatio n | Seven Principles | Meditatio n | PO1:Researc h |
| | phy | | | | | Competence : (i) Critically evaluate approaches, theories, positions, norms, values. (ii) Analyse concepts and to trace their historical development. CO1: Learn to use Jain Philosophical theories to |



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| | | | | | | analyse situations and inform Judgments about Actions. CO2: Comprehend the theory of reality of the systems of Jain philosophy |
|-------------|--|-----------------------|-----------------------|-----------------------|-----------------------|---|
| LOG3 501 | LOGIC : Method ology of Social Science | Values and Science | Values and Science | Values and Science | Values and Science | PO1:Researc h Competence: Critically evaluate approaches, theories, positions, norms, values CO1: Process information in a logically consistent manner so as to come up with their own position |



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| | | | | | | about a certain topic. CO2: To apply knowledge to new situations to solve problems using required knowledge or skills. |
|-------------|--|-----------------------------|-----------------------------|-----------------------------|-----------------------------|--|
| LOG3 601 | LOGIC : Method ology of Social Science | Research Methodol ogy | Research Methodol ogy | Research Methodol ogy | Research Methodol ogy | CO1: Seeks opportunity for research and higher academic achievements in the chosen field and allied subjects and is aware about research ethics, intellectual property rights and issues of |



| distance regionanti transfer regionanti transf | ।। सिघ्टिरनेकान्तात्।। Anekant Education Society's TULJARAM CHATURCHAND COLLEGE of Arts, Science and Commerce, Baramati - 413102. Dist, Pune, Maharashtra, India. | | | | |
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| | | | plagiarism. |
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| | | | Demonstrate |
| | | | a sense of |
| | | | inquiry and |
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| | | | and report the |
| | | | results of a |
| | | | research |
| | | | project be it |
| | | | in field or |
| | | | otherwise |
| | | | under |
| | | | supervision. |
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| | | | CO2: Process |
| | | | information |
| | | | in a logically |
| | | | consistent |
| | | | manner so as |
| | | | to come up |
| | | | with their |
| | | | own position |
| | | | about a |
| | | | certain topic. |
| | | | СОЗ: То |
| | | | create |
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| | | | something, to |



| म्बिटालेक स्वा अक्रमा प्रकृषिय संग्रिकालि सुद्धजाराम पर्युर्थन महाविद्यालय, प्राराम् | ।। सिध्दिरनेकान्तात्।। Anekant Education Society's TULJARAM CHATURCHAND COLLEGE of Arts, Science and Commerce, Baramati - 413102. | | | | |
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| | | | integrate |
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| | | | ideas into a |
| | | | solution, to |
| | | | propose an |
| | | | action plan, to |
| | | | formulate a |
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SANSKRIT

| Progr amme | Cour se | Cou rse | Topic in the syllabus which has relevance to the developmental needs | | | | |
|----------------------------|-------------|-------------------------------------|--|---------------------------------------|------------------|--|--|
| | Code | Title | Local | National | Regional | Global | & COs |
| BA Sanskri t (UG) | UAS A111 | Sans krit Prav esha - 1 | | Ved va vedanganc ha Parichay | | Subhashit- Sangraha Sinha- Shashakaka tha (Story from Pachatantra) | CO1: Students learn linguisti c skills PSO3. Discipli nary Knowle dge: Demons trate a blend of tradition al knowled ge along with its applicati on in the modern lifestyle |
| | UAS A121 | Sans krit | Janapadaniv eshaha | | Gurvashtak am | Prahelikasa ngraha | CO2:St udents |



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| EN(2) Survey | | ।। सिध्दिरनेकान्तात्।। | | |

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| Englist gaments | | ।। सिध्दिरनेकान्तात्।। | | |

| SAN Sans Shivarajgun Study of Study of Study of PSO3. 2301 krit varnanam Krushiparas Scientific Discip PAri chay -1 Indian Age: Demon - 1 Agriculture) Sanskrit Knowl ge alow y on Ancient Benovi y -1 Indian dge: Demovi y -1 Indian dge: Demovi y it align it align y it it it align it y it it align it align y it it it align it it it </th |
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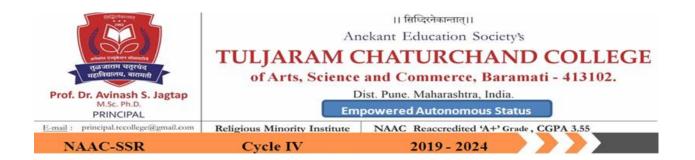
| | | | | CO3: Know the concept of Science in Sanskrit Underst and the linguisti c differen ce in sanskrit from different time periods |
|-------------|-------------------------------------|---|---|--|
| SAN 2401 | Sans krit Paric hay - 2 | 1.Yamaniy amau 2. Dakalabdh i | Study of Mrugpakshi shastra (An ancient Indian text on ZOOLOGY) | CO3: Explore the science in Sanskrit PSO1. Researc h- Related Skills: Develop |



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| Manager and a second | TULJARAM C | CHATURCHAND COLLEGE | | |
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| Ending spectrum | | ।। सिध्दिरनेकान्तात्।। | | |

| | | | | | | inter- disciplin ary research aptitude and indepen dent thinking |
|-----------------------|---|---|--|--|--|---|
| 3501 k H H H | krit Sanskrit Bhas Sahityacha ha Parichay Prab odha | Sans krit Bhas ha Prab odha - 1 | Sanskrut Arsha Mahakavy ancha Parichay | Sanskrit Koriv Lekhanche Vachan | Sanskrit Koriv Lekhanche Vachan | CO1: To study the linguisti c peculiar ities and style of an importa nt texts from Indian Traditio n 'Ramay an' & 'Mahab harata' CO2: To know the historica |





| | | | | | | es from |
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| | | | | | | Sanskrit |
| | | | | | | Texts. |
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| SAN | | Sadyakalin | Sanskrit | Hastalikhits | Hastalikhits | PSO11. |
| 3601 | | Sanskrit | Natyapara | hastracha | hastracha | Identific |
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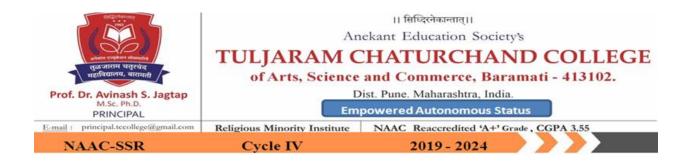
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| ENGENTRUM A | | ।। सिध्दिरनेकान्तात्।। |

| | | | peace and harmon y. CO4: Students can learn the conserv ation |
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1.1 Curriculum Design and Development

1.1.1. Curricula developed and implemented have relevance to the local, regional, national, and global developmental needs, which is reflected in the Programme outcomes (POs) and Course Outcomes(COs) of the Programmes offered by the institution (Qualitative Metrics)

| Progra | Cours | Course | | Topic in the syllabus which has relevance to | | | | | |
|---------|--------|-----------|-----------|--|------------|---------|------------------------|--|--|
| mme | e Code | Title | | the developmental needs | | | | | |
| | | | Local | National | Regional | Global | COs | | |
| F.Y.B.A | UASO | Introduct | Sociology | Culture | Social | Social | COs: 1 | | |
| | 111 | ion to | as a | and | Stratifica | Control | Student | | |
| | UASO | Sociolog | Science | Socializat | tion and | | will be able | | |
| | 121 | У | | ion | Mobility | | to explain | | |
| | | | | | | | social facts | | |
| | | | | | | | and society | | |
| | | | | | | | related | | |
| | | | | | | | concepts. | | |
| | | | | | | | COs: 2 | | |
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| | | | | | | | define and | | |
| | | | | | | | explain | | |
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| | | | | | | | concepts. | | |
| | | | | | | | COs: 3 | | |
| | | | | | | | Student will | | |
| | | | | | | | be able to | | |
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| | | | | | | | show social | | |
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| Activities of the second secon | ।। सिध्दिरनेकान्तात्।। Anekant Education Society's TULJARAM CHATURCHAND COLI of Arts, Science and Commerce, Baramati - 41310 Dist. Pune. Maharashtra, India. | | | | |
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| | | | | | | | Pos: 1 Student will be able to learn how to study the society scientificall y. Pos: 2 Student will be able to understand how the tools of analysis and methods of sociology are applicable to work and involvemen t in their community. |
|---------|-------------|--|---------------------|----------------------------------|----------------------|---------------------|--|
| S.Y.B.A | SOC2 303 | Indian Society : Issues and Problems | Caste and Gender | Problems of Minoritie s | Problems of Youth | Old Age Problems | COs: 1 Studen ts are able to unders tand social issues and are empo wered |



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| | | | social |
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| | | | | | | gical |
| | | | | | | |
| | | | | | | perspe |
| | | | | | | ctives. |
| SOC2 | Foundati | Dominant | Sanskritiz | Theory of | Indology | COs: 1 |
| 302 | on of | Caste | ation | Class | | Students |
| | Sociologi | | | Strugle | | are |
| | cal | | | | | familiarized |
| | Thought | | | | | with social, |
| | | | | | | political, economical |
| | | | | | | and |
| | | | | | | intellectual |
| | | | | | | contexts of |
| | | | | | | emergence |
| | | | | | | of |
| | | | | | | Sociology. |
| | | | | | | COs: 2 |
| | | | | | | Students |
| | | | | | | are able to |
| | | | | | | understand |
| | | | | | | social |
| | | | | | | thoughts. |
| | | | | | | Pos: 1 |
| | | | | | | Students |
| | | | | | | are |
| | | | | | | familiarized |
| | | | | | | with major |
| | | | | | | perspective |
| | | | | | | s and works of some |
| | | | | | | of some Indian |
| | | | | | | sociologists |
| | | | | | | 500101081515 |
| SOC2 | Populatio | Fertility | populatio | Nature | Migration | COs: 1 |
| 301 | n and | and | n and | and | | Students |
| - | Society | Mortality | poverty | character | | are able to |



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| | | | | | istics of Indian populatio n | | understand the nature, scope and concepts related to population studies. COs: 2 Students are able to critically analyze the theoretical perspective of population studies. Pos: 1 Students are able to evaluate the population policy and population profile of India. |
|---------|-------------|-------------------------|------------------------------------|----------------|---------------------------------------|---------------------------|---|
| T.Y.B.A | SOC3 501 | Crime and Society | Crime against SC,ST,DT NT | Cyber Crime | White Collar Crime | Crime against Women | COs: 1 Acquire a broad understandi ng of the |
| | | | | | | | theoretical and empirical approaches taken to understand |



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| | | | relationship |
| | | | between |
| | | | criminal |
| | | | behavior |
| | | | and social, |
| | | | cultural, |
| | | | and |
| | | | institutional |
| | | | forces. |
| | | | COs: |
| | | | 2Learn |
| | | | about the |
| | | | current |
| | | | state of |
| | | | knowledge |
| | | | regarding |
| | | | social |
| | | | variation |
| | | | crime and |
| | | | reactions to |
| | | | crime and |
| | | | the social |
| | | | consequenc |
| | | | es of this |
| | | | variation. |
| | | | COs: 3 |
| | | | Critically |
| | | | analyze the |
| | | | conceptual |
| | | | and |
| | | | empirical |
| | | | underpinnin |



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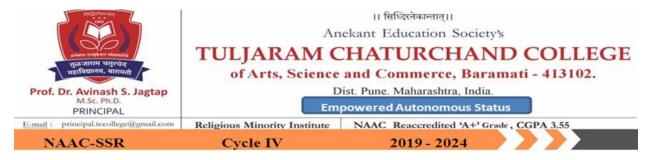
| SOC3 503 | Contemp orary Indian Society | Changing nature of marriage,f amily and household | Economic Develop ment | Agricultu re in Post Independ ence India | Debates around lesbian, gay, bisexual, transgend er & queer(LG BTQ) | g of research on the above topics. Pos: 1 Identify significant new research questions related to the study of crime in society. COs: 1 Students are able to provide an Introductio n of Social Structure & Social Change. COs: 2 Students are able to understand the building of modern India as a nation in its complete |
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| | | | Pos: 1 |
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| | | | Comprehen |
| | | | d the |
| | | | historical |
| | | | context to |
| | | | the current |
| | | | socio- |
| | | | economic |
| | | | trends and |
| | | | problems |
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| Program me | Cours e Code | Course Title | - | elevance to | POs, PSO's & | | |
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| | | | Local | National | Regional | Global | COs |
| U | | | the develo | pmental nee | eds | | PSO's & |
| | | | | | | | in real-world scenarios PO1. Knowledge : To understand and apply the fundamenta l principles, concepts, and methods in diverse areas of |



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| | | | computer |
| | | | science, |
| | | | computer |
| | | | application |
| | | | S, |
| | | | manageme |
| | | | nt, |
| | | | mathematic |
| | | | s, statistics, |
| | | | etc. |
| | | | PO2. |
| | | | Problem |
| | | | Analysis: |
| | | | Identify, |
| | | | analyse and |
| | | | formulate |
| | | | complex |
| | | | real-life |
| | | | computing |
| | | | problems. |
| | | | Attain |
| | | | substantiate |
| | | | d |
| | | | conclusions |
| | | | to solve the |
| | | | problems |
| | | | using |
| | | | fundamenta |
| | | | l principles |
| | | | of |
| | | | computer |
| | | | science and |
| | | | application |
| | | | domains by |
| | | | using |
| | | | various |
| | | | tools and |



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| | | | | | | emerging technologie s. |
|-------------|------------------------------|---|---|---|---|---|
| UBCA 112 | Data Structure using C | Searching , Sorting, Looping, Function, Linked list , Stack, Queue | Searching , Sorting, Looping, Function, Linked list , Stack, Queue | Searching , Sorting, Looping, Function, Linked list , Stack, Queue | Searching , Sorting, Looping, Function, Linked list , Stack, Queue | CO3.Classify different data structures such as stack queues, linked list, trees and graphs CO4.Implem ent linear and non-linear data structures PO3. Design and Developme nt: Design and develop efficient solutions for complex real- world computing problems and design system component s or processes that meet the |



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| | | | | | | synthesis of the information to arrive at valid conclusions |
|-------------|--|----------------------------|----------------------------|----------------------------|----------------------------|---|
| UBCA 113 | Relationa l Database Manage ment System | SQL, Recovery System | SQL, Recovery System | SQL, Recovery System | SQL, Recovery System | CO1.Demonstrate basic elements of relational database management system CO6.Analyze SQL DDL, DML and simple queries. CO7.How Database recovery techniques are used in database management systems (DBMS) to restore a database to a consistent state after a failure or error has occurred. PO3. Design and |



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| | | | the |
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| | | | societal, |
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| | | | | | | ns of complex problems: Ability to research, analyze and Investigate complex computing problems through the design of experiment s, analysis, and interpretati on of data, and synthesis of the information to arrive at valid conclusions |
|-------------|-------------------------------|---|---|---|---|--|
| UBCA 114 | Business Commun ication | Media of Communi cation, Oral Communi cation | Media of Communi cation, Oral Communi cation | Media of Communi cation, Oral Communi cation | Media of Communi cation, Oral Communi cation | CO1.Commu nicate effectively in real life situation. CO2.Disting uish among various levels of organizationa 1 |



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| | | | advanced |
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| | | | PO10. |
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| | | | ation: Able |
| | | | to use |
| | | | interperson |
| | | | al skills |
| | | | and |
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| State State | ।। सिध्दिरनेकान्तात्।। | | | | |

| UBC 115 | CA Principle s and Practices of Manage ment and Organiza tional Behaviou r | Time Managem ent, Leadershi p, Decision Making Environm ent | Time Managem ent, Leadershi p, Decision Making Environm ent | Time Managem ent, Leadershi p, Decision Making Environm ent | Time Managem ent, Leadershi p, Decision Making Environm ent | effectively and accurately and able to comprehen d and write effective reports, design documentat ion, and make effective presentatio ns. CO3: Justify the role of leadership qualities CO4: identify and Analyze the role of planning and decision making. CO5: Understand the nature of time management and time management strategies. PO7. Individual |
|------------|---|---|---|---|---|---|
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| State State | ।। सिध्दिरनेकान्तात्।। | | | | |

| | | | | | | and Team Work: Ability to work effectively as an individual, and as a member or leader as per need in, multidiscip linary teams. |
|-------------|--|---|---|---|---|---|
| UBCA 116 | Compute r Laborato ry I [Based on UBCA11 2] | Array, String, Function, Linked List Stack, Queue | Array, String, Function, Linked List Stack, Queue | Array, String, Function, Linked List Stack, Queue | Array, String, Function, Linked List Stack, Queue | CO4.Implem ent linear and nonlinear data structure CO5.Gain problem solving techniques by use of appropriate data types, control statements. CO6.Handle operations like searching, insertion, deletion, traversing mechanism etc. on various data |



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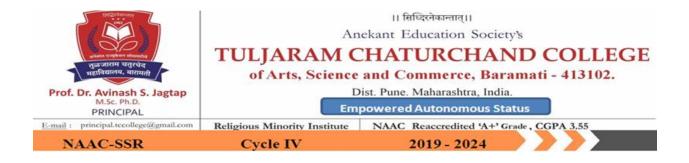
| <u> </u> | 1 | 1 |
|----------|---|-------------|
| | | structures |
| | | PO3. |
| | | Design and |
| | | Developme |
| | | nt: Design |
| | | and |
| | | develop |
| | | efficient |
| | | solutions |
| | | for |
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| | | problems |
| | | and design |
| | | system |
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| | | cultural, |
| | | societal, |
| | | and |
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| | | considerati |
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| | | | | | | complex |
| | | | | | | problems: |
| | | | | | | Ability to |
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| | | | | | | Investigate |
| | | | | | | complex |
| | | | | | | computing |
| | | | | | | problems |
| | | | | | | through the |
| | | | | | | design of |
| | | | | | | experiment |
| | | | | | | s, analysis, |
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| UBCA | Compute | DDL,DM | DDL,DM | DDL,DM | DDL,DM | CO1.Write |
| 117 | r | L | L | L | L | SQL |
| | Laborato | Comman | Comman | Comman | Comman | commands to |
| | ry II | d, Stored | d, Stored | d, Stored | d, Stored | create tables |
| | [Based | Procedure | Procedure | Procedure | Procedure | using |
| | on | s ,Stored | s ,Stored | s ,Stored | s ,Stored | Normalizatio |
| | UBCA11 | Functions | Functions | Functions | Functions | n concepts |
| | 3] | , | , | , | , | and indexes, |





| | Cursor, | Cursor, | Cursor, | Cursor, | insert/update |
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| | 111880100 | 111880100 | 11.880100 | 11.880100 | and query |
| | | | | | data in a |
| | | | | | relational |
| | | | | | DBMS. |
| | | | | | CO2.Execute |
| | | | | | simple and |
| | | | | | nested |
| | | | | | queries |
| | | | | | CO3.Write |
| | | | | | procedures |
| | | | | | and |
| | | | | | functions. |
| | | | | | CO4.Underst |
| | | | | | ands use of |
| | | | | | trigger and |
| | | | | | cursor. |
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| UBCA | Object | Concepts | Concepts | Concepts | Concepts | CO1.Underst |
| 121 | Oriented | of OOP, | of OOP, | of OOP, | of OOP, | and Object |
| | Program | Inheritanc | Inheritanc | Inheritanc | Inheritanc | Oriented |
| | ming | e, Classes | e, Classes | e, Classes | e, Classes | Programmin |
| | using | and | and | and | and | g concepts |
| | C++ | Objects, | Objects, | Objects, | Objects, | using the |
| | | Working | Working | Working | Working | C++ |
| | | with files | with files | with files | with files | language |
| | | | | | | CO2.Describ |
| | | | | | | e the |
| | | | | | | procedural |
| | | | | | | and object- |
| | | | | | | oriented |
| | | | | | | paradigm |
| | | | | | | with |
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| | | | | | | streams, |
| | | | | | | classes, |
| | | | | | | functions, |
| | | | | | | data and |
| | | | | | | objects. |
| | | | | | | CO3.Underst |
| | | | | | | and the |
| | | | | | | principles of |
| | | | | | | data |
| | | | | | | abstraction, |
| | | | | | | inheritance, |
| | | | | | | polymorphis |



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| | | | | | | conclusions |
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| UBCA | Web | HTML5, | HTML5, | HTML5, | HTML5, | CO1:Analyz |
| 122 | Technolo | CSS3, | CSS3, | CSS3, | CSS3, | e the web |
| | gy | JavaScrip | JavaScrip | JavaScrip | JavaScrip | page and |
| | (HTML5 | t | t | t | t | identify its |
| | , CSS3, | | | | | elements and |
| | JavaScrip | | | | | attributes |
| | t, jQuery) | | | | | CO2: Create |
| | | | | | | web pages |



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| | | | using |
| | | | HTML5 and |
| | | | CSS3. |
| | | | CO3: Build |
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| | | | webpage by |
| | | | the use of |
| | | | JavaScript |
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| | | | | | | areas of computer science, computer application s, manageme nt, mathematic s, statistics, etc. |
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| UBCA 124 | Technica 1 Report Writing | Structure and Layout, Planning and Preparati on, Technical Communi cation, Report Writing | Structure and Layout, Planning and Preparati on, Technical Communi cation , Report Writing | Structure and Layout, Planning and Preparati on, Technical Communi cation, Report Writing | Structure and Layout, Planning and Preparati on, Technical Communi cation, Report Writing | CO1:Produce a documentation n plan, including estimates and schedules CO2: Design and structure a document by analyzing the readership and selecting the right information. CO3: Understand the basics of technical communicati on. PO8. Life- Long Learning: Recognize |



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| UBCA 125 | Digital Marketin g | Search Engine Optimizat ion ,Social Media Marketin g | Search Engine Optimizat ion ,Social Media Marketin g | Search Engine Optimizat ion ,Social Media Marketin g | Search Engine Optimizat ion ,Social Media Marketin g | CO1. Identify and implement best practices in business for planning, decision making, problem solving and conflict management CO2. Explain why we get a huge list of webpages as a result of a search CO6. Develop and execute a marketing plan, resource planning, |



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| | | | | | | budgeting planning for successful Business PO11. Innovation, employabil ity, and Entreprene urial skills: Identify opportuniti es, and pursue those opportuniti es to create value and wealth for the betterment of the individual and society at large. |
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| UBCA 126 | Compute r Laborato ry I [Based on UBCA12 1] | Inheritanc e, Function Overloadi ng, file handling | Inheritanc e, Function Overloadi ng, file handling | Inheritanc e, Function Overloadi ng, file handling | Inheritanc e, Function Overloadi ng, file handling | CO1.Develo p applications for a range of problems using OOP's techniques. CO2.Able to develop programs with reusability. |



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| CO3.Handle the exceptior in programing. CO4.Develo p program for file handling PO3. Design and Developme nt: Design and develop efficient solutions for complex real- world computing problems and design system component s or |
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| in programing. CO4.Develo p program for file handling PO3. Design and Developme nt: Design and develop efficient solutions for complex real- world computing problems and design system component |
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| UBCA 127 | Compute r Laborato ry I [Based on UBCA12 2] | HTML5, CSS3, JavaScrip t | HTML5, CSS3, JavaScrip t | HTML5, CSS3, JavaScrip t | HTML5, CSS3, JavaScrip t | CO1.Implem ent the given HTML program. CO2.Able to create and apply CSS styling. CO3.Use JavaScript concept. CO4.Develo p skills required for designing, developing web applications in web technology. CO5.To develop modern interactive web Applications using PHP, XML, HTML. PO3. Design and Developme nt: Design and develop efficient solutions |
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| | | | | | | solutions for |



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| | | | PO4.Condu |
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| | | | complex |
| | | | problems: |
| | | | Ability to |
| | | | research, |
| | | | analyze |
| | | | and |



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| | | | | | | Investigate complex computing problems through the design of experiment s, analysis, and interpretati on of data, and synthesis of the information to arrive at valid conclusions |
|-------------|-------------------------|--|---|---|---|--|
| UBCA 231 | Java Program ming | Introducti on to JAVA, Applet, AWT and Swing Program ming | Introducti on to JAVA , Applet, AWT and Swing Program ming | Introducti on to JAVA , Applet, AWT and Swing Program ming | Introducti on to JAVA , Applet, AWT and Swing Program ming | CO1: Know the different basic concepts of Java programming language. CO3: Develop Software in the Java programming language. PO3. Design and Developme nt: Design and |



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| | | develop |
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| ENCE STREET | ।। सिध्दिरनेकान्तात्।। | | | | |

| | | | | | | Ability to research, analyze and Investigate complex computing problems through the design of experiment s, analysis, and interpretati on of data, and synthesis of the information to arrive at valid conclusions |
|--------------|-----|---|---|---|---|---|
| UBCA 232A | PHP | Functions , Objects and Errors, MySQL Database | Functions , Objects and Errors, MySQL Database | Functions , Objects and Errors, MySQL Database | Functions , Objects and Errors, MySQL Database | CO1: Write PHP scripts to handle HTML forms. CO3: Create PHP programs that use various PHP library functions, and that manipulate |



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| | | | files and |
| | | | directories. |
| | | | CO4:Analyz |
| | | | e and solve |
| | | | various |
| | | | database |
| | | | tasks using |
| | | | the PHP |
| | | | language |
| | | | PO3. |
| | | | Design and |
| | | | Developme |
| | | | nt: Design |
| | | | and |
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| | | | | experiment |
| | | | | s, analysis, |
| | | | | and |
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| | | | | on of data, |
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| | | | | of the |
| | | | | information |
| | | | | to arrive at |
| | | | | valid |
| | | | | conclusions |
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| UBCA | Node JS | Working | Working | Working | Working | CO1: To |
|------|---------|---------|---------|---------|---------|--------------|
| 232B | | in REPL | in REPL | in REPL | in REPL | Understand |
| | | ,Events | ,Events | ,Events | ,Events | Node JS and |
| | | | | | | REPL |
| | | | | | | terminal. |
| | | | | | | CO3: |
| | | | | | | Develop |
| | | | | | | applications |
| | | | | | | to handle |
| | | | | | | events in |
| | | | | | | Node JS. |
| | | | | | | PO3. |
| | | | | | | Design and |
| | | | | | | Developme |
| | | | | | | nt: Design |
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| | | | | | | conclusions |
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| | | | | | | |
| | | | | | | |
| UBCA | Python | Modules, | Modules, | Modules, | Modules, | CO2: To |
| 233 | Program | Function | Function | Function | Function | design and |
| | ming | | | | | develop |
| | | | | | | Python |
| | | | | | | Application |
| | | | | | | s. |
| | | | | | | CO7. |
| | | | | | | Develop, run |
| | | | | | | and |
| | | | | | | manipulate |
| | | | | | | Python |
| | | | | | | programs |
| | | | | | | using Core |
| | | | | | | data |
| | | | | | | structures |
| | | | | | | like |
| | | | | | | Lists, |
| | | | | | | Dictionaries, |
| | | | | | | and use of |
| | | | | | | Strings |
| | | | | | | Handling |
| | | | | | | methods |
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| | | | | | | nt: Design |
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| | | | | | | develop |
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| UBCA 234 | Operatin g System Concepts | Introducti on to Operating System, Memory Managem ent, Basics of | Introducti on to Operating System, Memory Managem ent, Basics of | Introducti on to Operating System, Memory Managem ent, Basics of | Introducti on to Operating System, Memory Managem ent, Basics of | through the design of experiment s, analysis, and interpretati on of data, and synthesis of the information to arrive at valid conclusions CO2. Demonstrate the knowledge o the components of computer and their |
|-------------|----------------------------------|---|---|---|---|---|
| | | Basics of Linux, Schedulin g Algorith | Basics of Linux, Schedulin g Algorith | Basics of Linux, Schedulin g Algorith | Basics of Linux, Schedulin g Algorith | and their respective roles in computing. CO5. |
| | | ms | ms | ms | ms | Identify different types of disk scheduling algorithms PO1. Knowledge |
| | | | | | | : To understand and apply |



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| | | | |
| | | | fundamenta |
| | | | l principles, |
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| | | | diverse |
| | | | areas of |
| | | | computer |
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| | | | computer |
| | | | application |
| | | | s, |
| | | | manageme |
| | | | nt, |
| | | | mathematic |
| | | | s, statistics, |
| | | | etc. |
| | | | PO2. |
| | | | Problem |
| | | | Analysis: |
| | | | Identify, |
| | | | analyse and |
| | | | formulate |
| | | | complex |
| | | | real-life |
| | | | computing |
| | | | problems. |
| | | | Attain |
| | | | substantiate |
| | | | d |
| | | | conclusions |
| | | | to solve the |
| | | | problems |
| | | | using |
| | | | fundamenta |
| | | | 1 |



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| | | | | | | principles of computer science and application domains by using various tools and emerging technologie s. |
|-------------|--|--|--|--|--|---|
| UBCA 235 | Business Statistics using R Program ming | Probabilit y and Probabilit y distributi ons, Program ming in R | CO1. Develop proficiency in using statistical tools and software. CO2. Apply mathematic al and statistical techniques to analyze and interpret data. CO3. Apply knowledge of mathematic s and statistics to solve real- |



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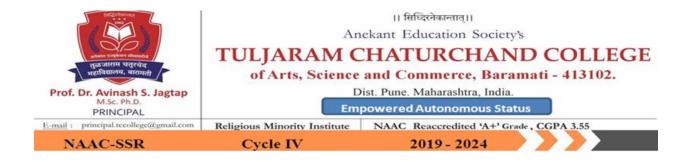
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| | | | problems. |
| | | | CO4. |
| | | | Demonstrat |
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| | | | programmi |
| | | | ng skills |
| | | | and the |
| | | | ability to |
| | | | use |
| | | | appropriate |
| | | | tools for |
| | | | statistical |
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| | | | PO1. |
| | | | Knowledge |
| | | | : To |
| | | | understand |
| | | | and apply |
| | | | the |
| | | | fundamenta |
| | | | l principles, |
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| | | | computer |
| | | | science, |
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| | | | s, statistics, |
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| | | | | | | PO2. |
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| | | | | | | Problem |
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| | | | | | | principles |
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| | | | | | | domains by |
| | | | | | | using |
| | | | | | | various |
| | | | | | | tools and |
| | | | | | | emerging |
| | | | | | | technologie |
| | | | | | | s. |
| | Compute | Modulas | Modulas | Modulas | Modulas | CO1. Use |
| UBCA 236 | Compute r | Modules, Function, | Modules, Function, | Modules, Function, | Modules, Function, | CO1: Use of |
| 230 | r Laborato | Applet, | Applet, | Applet, | Applet, | Appropriat |
| | ry I | AWT and | AWT and | AWT and | AWT and | e Data |
| | (Based | Swing | Swing | Swing | Swing | Types, |
| | on | ~ | 5,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | 2000 | 2000 | Control |





| | UBCA23 | Program | Program | Program | Program | Statements |
|--|--------|---------|---------|---------|---------|--------------|
| | 1 & | ming | ming | ming | ming | CO2: Write |
| | UBCA23 | 8 | 8 | 8 | 8 | programs |
| | 3) | | | | | using |
| | - / | | | | | String, |
| | | | | | | List, Tuple, |
| | | | | | | Dictionary, |
| | | | | | | Set for |
| | | | | | | Python |
| | | | | | | Programmi |
| | | | | | | ng |
| | | | | | | CO6. |
| | | | | | | Create |
| | | | | | | dynamic |
| | | | | | | web pages, |
| | | | | | | using |
| | | | | | | Servlets |
| | | | | | | and JSP. |
| | | | | | | CO7. |
| | | | | | | Apply |
| | | | | | | event |
| | | | | | | handling |
| | | | | | | on AWT |
| | | | | | | and Swing |
| | | | | | | component |
| | | | | | | s. |
| | | | | | | PO3. |
| | | | | | | Design and |
| | | | | | | Developme |
| | | | | | | nt: Design |
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| | | | | | | develop |
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| | | | | | | computing problems through the design of experiment s, analysis, and interpretati on of data, and synthesis of the information to arrive at valid conclusions |
|-------------|--|--|--|--|--|---|
| UBCA 237 | Compute r Laborato ry II (Based on UBCA23 2 & UBCA23 5) | Functions , Objects and Errors, MySQL Database, Probabilit y and Probabilit y distributi ons, | Functions , Objects and Errors, MySQL Database, Probabilit y and Probabilit y distributi ons, | Functions , Objects and Errors, MySQL Database, Probabilit y and Probabilit y distributi ons, | Functions , Objects and Errors, MySQL Database, Probabilit y and Probabilit y distributi ons, | CO1: Write PHP Scripts to handle HTML Forms CO2: Analyze and Solve web Application task by writing PHP Programs CO3: Analyze and solve database task using |



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| | | | PHP |
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| | | | CO6: |
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| | | | Appreciate |
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| | | | Programmi |
| | | | ng from |
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| | | | PO3. |
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| | | | and |
| | | | develop |
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| | | | solutions |
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| | | | and design |
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| UBCA 241 | Advance d Java Program ming | JDBC, JSP. Servlet, Networki ng | JDBC, JSP. Servlet, Networki ng | JDBC, JSP. Servlet, Networki ng | JDBC, JSP. Servlet, Networki ng | CO1: Learn to access database using Java Data Base Connectivity in Java programs. CO4. Develop dynamic webpages using Servlets. CO5. Develop dynamic webpages using JSP. CO6. Develop and utilize client/server applications and TCP/IP socket programming PO3. Design and Developme nt: Design and davalop |
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| | | | | | | Investigate complex computing problems through the design of experiment s, analysis, and interpretati on of data, and synthesis of the information to arrive at valid conclusions |
|--------------|------------------|--|--|--|--|--|
| UBCA 242A | Advance d PHP | XML, Ajax with PHP, Web Services | XML, Ajax with PHP, Web Services | XML, Ajax with PHP, Web Services | XML, Ajax with PHP, Web Services | CO3: Students will able to Analyze the construction of a web page and relate how PHP and XML combine to produce the web page. CO4: Students will able to combine Ajax with |



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| PHP. |
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| CO7. |
| Students |
| will able to |
| develop |
| interface a |
| PHP script |
| with a |
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| MySQL database |
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| UBCA 242B | React JS | React JS Compone nt, Routing in React JS | React JS Compone nt, Routing in React JS | React JS Compone nt, Routing in React JS | React JS Compone nt, Routing in React JS | CO1. Understand the concept of component s and their role in React.js application s. CO2. Perform some simple tests. CO3. Create React CO3. Create React Component s PO3. Design and Developme nt: Design and develop efficient solutions for complex real- world |
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| | | computing |
| | | problems |
| | | through the |
| | | design of |
| | | experiment |
| | | s, analysis, |



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| UBCA 243 | Mathema tical Foundati on for Compute r Applicati ons | Vectors, Matrices, Sets | Vectors, Matrices, Sets | Vectors, Matrices, Sets | Vectors, Matrices, Sets | CO1. Identify the base case, induct ion hypothesis, and inductive step in an induction argument, to prove statements using mathematic al induction CO2. Able to use logical notations to define and reason about fundamenta 1 |



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| | | | relations |
| | | | and |
| | | | functions. |
| | | | CO3. Basic |
| | | | knowledge |
| | | | of set |
| | | | theory, |
| | | | functions, |
| | | | and |
| | | | relations |
| | | | concepts. |
| | | | PO1. |
| | | | Knowledge |
| | | | : To |
| | | | understand |
| | | | and apply |
| | | | the |
| | | | fundamenta |
| | | | l principles, |
| | | | concepts, |
| | | | and |
| | | | methods in |
| | | | diverse |
| | | | areas of |
| | | | computer |
| | | | science, |
| | | | computer |
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| | | | mathematic |
| | | | s, statistics, |
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| | | | | | | PO2. Problem Analysis: |
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| | | | | | | Identify, |
| | | | | | | analyse and |
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| | | | | | | complex |
| | | | | | | real-life |
| | | | | | | computing problems. |
| | | | | | | Attain |
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| | | | | | | tools and |
| | | | | | | emerging |
| | | | | | | technologie |
| | | | | | | s. |
| UBCA | Software | Software | Software | Software | Software | CO1. |
| 244 | Testing | Testing, | Testing, | Testing, | Testing, | Explain the |
| | and | Junit | Junit | Junit | Junit | fundamenta |
| | Automati | (TestNG) | (TestNG) | (TestNG) | (TestNG) | ls of |
| | on | | | | | software |
| | | | | | | testing and |



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| | | | automation |
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| | | | CO2. |
| | | | Analyze |
| | | | the design |
| | | | of test |
| | | | cases for |
| | | | different |
| | | | testing |
| | | | techniques. |
| | | | CO7. |
| | | | Understand |
| | | | and use |
| | | | software |
| | | | test |
| | | | automation |
| | | | tools. |
| | | | PO3. |
| | | | Design and |
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| | | | | | | synthesis of the information to arrive at valid conclusions PO5. Modern Tool Usage: Create, identify and apply appropriate techniques, skills, and modern computing tools to computing activities. |
|-------------|----------------|--|--|--|--|--|
| UBCA 245 | Networki ng | Topologi es, Network Types, TCP/IP Model, Transmis sion Media, IP Address and Routing | Topologi es, Network Types, TCP/IP Model, Transmis sion Media, IP Address and Routing | Topologi es, Network Types, TCP/IP Model, Transmis sion Media, IP Address and Routing | Topologi es, Network Types, TCP/IP Model, Transmis sion Media, IP Address and Routing | CO1. Understand the major concepts involve in various types of computer networks (LAN, MAN, WAN) and technologie s behind networks. |



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| | | | CO2. |
| | | | Develop an |
| | | | understandi |
| | | | ng of |
| | | | modern |
| | | | network |
| | | | architecture |
| | | | from a |
| | | | design and |
| | | | performanc |
| | | | e. |
| | | | CO3. |
| | | | Discuss the |
| | | | importance |
| | | | of ISO |
| | | | reference |
| | | | model and |
| | | | TCP/IP |
| | | | Suite. |
| | | | CO4. |
| | | | Apply the |
| | | | knowledge |
| | | | of different |
| | | | network |
| | | | design and |
| | | | various |
| | | | logical |
| | | | models of |
| | | | networking |
| | | | to solve |
| | | | problems |
| | | | of |
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| | | | different |
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| | | | transmissio |
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| | | | computer |
| | | | science, |
| | | | computer |
| | | | application |
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| | | | manageme |
| | | | nt, |
| | | | mathematic |
| | | | s, statistics, |
| | | | etc. |
| | | | PO8. Life- |
| | | | Long |
| | | | Learning: |
| | | | Recognize |
| | | | the need |
| | | | and have |
| | | | the ability |
| | | | to engage |
| | | | in |
| | | | independen |
| | | | t |
| | | | continuous |
| | | | reflective |
| | | | learning in |
| | | | the context |



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| Englishmenti | | ।। सिध्दिरनेकान्तात।। | | | |

| | | | | | | of technologic al advanceme nt. |
|-------------|--|--|--|--|--|---|
| UBCA 246 | Compute r Laborato ry I(Based on UBCA24 1 & UBCA24 4) | JDBC, JSP. Servlet, Junit (TestNG) | JDBC, JSP. Servlet, Junit (TestNG) | JDBC, JSP. Servlet, Junit (TestNG) | JDBC, JSP. Servlet, Junit (TestNG) | CO1: Learn to access database using JDBC in Java CO2: Develop Dynamic Web Pages using Servlet & JSP CO3: Develop client server application s using SOCKET Programmi ng SOCKET Programmi ng SOCKET Programmi ng SOCKET Programmi ng SOCKET Programmi ng CO4. Understand ing Selenium and TestNG tool to perform Automatio |



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| | | | n testing |
|--|--|--|-------------|
| | | | PO3. |
| | | | Design and |
| | | | Developme |
| | | | nt: Design |
| | | | and |
| | | | develop |
| | | | efficient |
| | | | solutions |
| | | | for |
| | | | complex |
| | | | real- |
| | | | world |
| | | | computing |
| | | | problems |
| | | | and design |
| | | | system |
| | | | component |
| | | | s or |
| | | | processes |
| | | | that meet |
| | | | the |
| | | | specified |
| | | | needs with |
| | | | appropriate |
| | | | considerati |
| | | | on for |
| | | | public |
| | | | health and |
| | | | safety and |
| | | | the |
| | | | cultural, |
| | | | societal, |
| | | | and |
| | | | environme |
| | | | ntal |
| | | | considerati |
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| | | | | | | PO4.Condu |
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| | | | | | | ct |
| | | | | | | investigatio |
| | | | | | | ns of |
| | | | | | | complex |
| | | | | | | problems: |
| | | | | | | Ability to |
| | | | | | | research, |
| | | | | | | analyze |
| | | | | | | and |
| | | | | | | Investigate |
| | | | | | | complex |
| | | | | | | computing |
| | | | | | | problems |
| | | | | | | through the |
| | | | | | | design of |
| | | | | | | experiment |
| | | | | | | s, analysis, |
| | | | | | | and |
| | | | | | | interpretati |
| | | | | | | on of data, |
| | | | | | | and |
| | | | | | | synthesis |
| | | | | | | of the |
| | | | | | | information |
| | | | | | | to arrive at |
| | | | | | | valid |
| | | | | | | conclusions |
| | | | | | | • |
| IDCA | Comment | VMI | VMI | VMI | VMI | <u>CO1</u> |
| UBCA | Compute | XML, | XML, | XML, | XML, | CO1. |
| 247 | r Laborata | Ajax with | Ajax with | Ajax with | Ajax with | Understand |
| | Laborato | PHP, IP | PHP, IP | PHP, IP | PHP, IP | the |
| | ry II(| Address | Address | Address | Address | constructio |
| | Based on | and Deuting | and Douting | and Douting | and Douting | n of |
| | UBCA24 | Routing | Routing | Routing | Routing | webpages |
| | 2 & | | | | | & relate to |
| | | | | | | PHP & |



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| UBCA24 | | | XML. |
|--------|--|--|--------------------------|
| 5) | | | CO2. |
| 5) | | | Design |
| | | | interactive |
| | | | programs |
| | | | |
| | | | using AJAX & |
| | | | PHP, |
| | | | XML. |
| | | | CO3. |
| | | | |
| | | | Design interactive |
| | | | website |
| | | | |
| | | | using Wordproce |
| | | | Wordpress. CO4. Learn |
| | | | |
| | | | routing |
| | | | concepts |
| | | | along with |
| | | | protocols. CO5. |
| | | | Understand |
| | | | |
| | | | and |
| | | | develop various |
| | | | |
| | | | application |
| | | | s on packet |
| | | | tracer |
| | | | PO3. |
| | | | Design and |
| | | | Developme |
| | | | nt: Design |
| | | | and |
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| | | | efficient |
| | | | solutions |
| | | | for |



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| | | | complex |
| | | | real- |
| | | | world |
| | | | computing |
| | | | problems |
| | | | and design |
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| | | | component |
| | | | s or |
| | | | processes |
| | | | that meet |
| | | | the |
| | | | specified |
| | | | needs with |
| | | | appropriate |
| | | | considerati |
| | | | on for |
| | | | public |
| | | | health and |
| | | | safety and |
| | | | the |
| | | | cultural, |
| | | | societal, |
| | | | and |
| | | | environme |
| | | | ntal |
| | | | considerati |
| | | | ons. |
| | | | PO4.Condu |
| | | | ct |
| | | | investigatio |
| | | | ns of |
| | | | complex |
| | | | problems: |
| | | | Ability to |
| | | | research, |
| | | | analyze |
| | | | and |



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| | | | | | | Investigate |
|------|---------|----------|----------|----------|----------|--------------|
| | | | | | | Investigate |
| | | | | | | complex |
| | | | | | | computing |
| | | | | | | problems |
| | | | | | | through the |
| | | | | | | design of |
| | | | | | | experiment |
| | | | | | | s, analysis, |
| | | | | | | and |
| | | | | | | interpretati |
| | | | | | | on of data, |
| | | | | | | and |
| | | | | | | synthesis |
| | | | | | | of the |
| | | | | | | information |
| | | | | | | to arrive at |
| | | | | | | valid |
| | | | | | | conclusions |
| | | | | | | |
| | | | | | | PO5. |
| | | | | | | Modern |
| | | | | | | Tool |
| | | | | | | Usage: |
| | | | | | | Create, |
| | | | | | | identify |
| | | | | | | and apply |
| | | | | | | appropriate |
| | | | | | | techniques, |
| | | | | | | skills, and |
| | | | | | | modern |
| | | | | | | computing |
| | | | | | | tools to |
| | | | | | | computing |
| | | | | | | activities. |
| | | | | | | |
| UBCA | Project | Software | Software | Software | Software | CO1. |
| 248 | | Develop | Develop | Develop | Develop | Understand |
| | | ment | ment | ment | ment | programmi |
| | | ment | ment | ment | ment | programmi |



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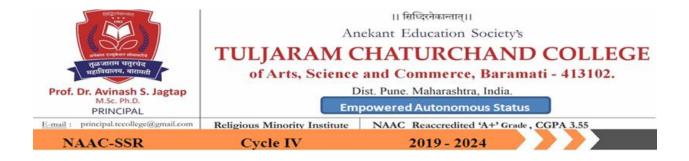
| | | | ng |
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| | | | language |
| | | | concepts, |
| | | | specifically |
| | | | web |
| | | | technologie |
| | | | s, Java and |
| | | | object |
| | | | oriented |
| | | | concepts |
| | | | and apply it |
| | | | in problem |
| | | | solving. |
| | | | CO2. Learn |
| | | | the |
| | | | software |
| | | | developme |
| | | | nt cycle |
| | | | and on |
| | | | different |
| | | | processes - |
| | | | requiremen |
| | | | ts, design, |
| | | | and |
| | | | implementa |
| | | | tion phases. |
| | | | CO3. |
| | | | Identify, |
| | | | plan, |
| | | | analyze, |
| | | | design and |
| | | | implement |
| | | | software |
| | | | project |
| | | | required in |
| | | | society. |
| | | | PO8. Life- |
| | | | Long |



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| | | Learning: Recognize the need and have the ability |
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| | | to engage |
| | | in independen |
| | | t |
| | | continuous |
| | | reflective learning in |
| | | the context |
| | | of |
| | | technologic al |
| | | advanceme |
| | | nt. PO9. |
| | | Project |
| | | Manageme nt: |
| | | Understand |
| | | and apply |
| | | computing, |
| | | manageme nt |
| | | principles |
| | | to |
| | | manage |
| | | projects. |





COMMERCE

| Cours e | Course Title | Topic in the syllabus which has relevance to the developmental needs | | | | |
|--------------|---------------------------------------|--|---|---|-------------------------------------|--|
| Code | | Local | National | Regional | Glob al | & Cos |
| UCFA 111 | Financial Accounting I | Accounting Principles | conversion of partnership firm | Consignment Accounting Process and books maintains | Acco untin g stand ards | CO1.In depend ent learnin g : Demon strate the ability to acquire knowle dge and busines s skills, the capacit y for self- directe d activity and the ability to work indepe ndently |
| UCED 111B | Entreprenuersh ip Development I | Entreprenuer ship | Reginal Imbalance | Reginal Imbalance | Econ omic Deve | CO2.T his course |



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| | | Developmen | | | lopm | will |
|------|----------------|------------|------------|--------------|--------|----------|
| | | t | | | ent | offer |
| | | | | | | the |
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| | | | | | | s of |
| | | | | | | starting |
| | | | | | | and |
| | | | | | | operati |
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| | | | | | | busines |
| | | | | | | s. It |
| | | | | | | will |
| | | | | | | provid |
| | | | | | | e |
| | | | | | | special |
| | | | | | | opport |
| | | | | | | unities |
| | | | | | | for |
| | | | | | | women |
| | | | | | | entrepr |
| | | | | | | eneurs. |
| UCCP | Consumer | Problem of | Consumer | Consumer and | Volu | CO2. |
| 111A | Protection and | Consumer | Protection | Consumer | ntory | This |
| | Business | | Act | Movement | Cons | will |
| | Ethics I | | | | umer | help |
| | | | | | Orga | the |
| | | | | | nizati | student |
| | | | | | on | s to |
| | | | | | | make |
| | | | | | | them |
| | | | | | | aware |
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| | | | | | | merism |



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| | | | | | | and rights of consu mer. |
|--------------|---------------------------------|--|----------------------|-------------------|--|--|
| UCM S111A | Marketing And Salesmanship I | Principles of marketing salesmanshi p | Service marketing | Service marketing | Inter natio nal Mark eting | CO3.C ommu nicatio n Skill: Able to commu nicate effecti vely, analyse the concep ts and partici pate in healthy argume nts and portray skill in commu nicatio n and in writing Posses s skills related with bankin g and other |



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| | | | | | | busines s. |
|--------------|---|---------------------------------|--|--------------------------------------|-------------------------------------|--|
| UCFA 121 | Financial Accounting II | Accounting Records Skills | GST Accounting Records Procedures | Higher Purchase Accounting system | Acco untin g stand ards | 3.Inde penden t learnin g : Demon strate the ability to acquire knowle dge and busines s skills, the capacit y for self- directe d activity and the ability to work indepe ndently |
| UCED 121B | Entreprenuersh ip Development II | Women Entrepreneur s | Autobiograp hy of Entrepreneur s | Women Entrepreneurs | Wom en Entre prene urs | PO4.T he student s can underst |



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| UCCP 121A | Consumer Protection and Business Ethics II | Business Ethics | Corporate Social Responsibilit y | Current Issues of Business Ethics | Corp orate Gove rnanc e and Busi | and the traits and qualitie s of entrepr eneurs. It will provid e special opport unities for women entrepr eneurs. PO1.It would also enable the student |
|--------------|---|--------------------|---|--------------------------------------|---|---|
| | | | | | ness Ethic s | s about various laws related to consu |
| | | | | | | mer protect ion in India. |
| UCM S121A | Marketing And Salesmanship II | Rural Marketing | Digital Online marketing | Challenges of Marketing | Inter natio nal Mark eting | CO2.In depend ent learnin g : |



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| | | | | | | Demon strate the ability to acquire knowle dge and busines s skills, the capacit y for self- directe d activity and the ability to work indepe ndently |
|-------------------|----------------------------------|-----------------------------------|--------------------------------|-------------------------------|----------------|---|
| COM BC23 01 | Business Communicatio ns I | Basic Communicat ion Skills | Oral Presentation Skills | Barriers to Communications | Soft Skills | PO2.C ommu nicatio n Skill: Able to commu nicate effecti vely, analyse the concep ts and |



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| , | | | | | | |
|-------------|---------------------------|------------------|--------------------|------------------------|-------------------|--|
| COM BC23 | Corporate Accounting I | Company Final | Holding Company | Valuation of Shares | Acco | partici pate in healthy argume nts and portray skill in commu nicatio n and in writing Posses s skills related with bankin g and other busines s. PO2.T he |
| 02 | | Account | Company | | g Stand ard | course will help the student s to get a thorou gh knowle dge about corpor ate |



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| | | | | | | accoun ting. It would also enable the student s to know about applica |
|-------------------|--------------------------|-----------------------|-----------------------------------|---------------------------------------|---|---|
| | | | | | | tion of accoun ting standar ds, concep t of |
| | | | | | | holdin g and subsidi ary compa nies. |
| COM BM23 04 | Business Management I | Bussiness Planning | Recent trends in Management | Performing management Functions | Unde rstan ding Glob al Busi ness | CO2.L eaders hip quality : Exhibit qualitie s |
| | | | | | mana geme nt chall enges and | associa ted with leaders hip such as |



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| | | | | | practi ces. | accoun tability |
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| | | | | | | respect |
| | | | | | | , self- reflecti |
| | | | | | | |
| СОМ | Elements of | Company | Incorporatio | Capital of | Trans | on CO2.T |
| CL230 | company Law | Act | n of a | Company | fer of | his |
| 5 | I | 1101 | Company | Company | Share | Course |
| C | - | | company | | S | help to |
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| COM | Marketing | Retail | Current | Current Marketing | Elem | CO2.St |
|-------|----------------|-------------|-------------|--------------------|-------|----------|
| MM | Management I | marketing, | Marketing | Environment in | ents | udents |
| 2306A | Ivianagement I | Elements of | Environment | India, Elements of | of | will be |
| 2300A | | Marketing | in India, | Marketing | Mark | demon |
| | | Management | Elements of | Management, | eting | strate |
| | | , Marketing | Marketing | Marketing | Mana | the |
| | | Communicat | Management | Communication | geme | ability |
| | | ion | , Marketing | Communication | nt, | to |
| | | 1011 | Communicat | | Mark | acquire |
| | | | ion | | eting | knowle |
| | | | 1011 | | Com | dge |
| | | | | | muni | and |
| | | | | | catio | busines |
| | | | | | n | s skills |
| | | | | | | the |
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| COM | Cost and | Elements of | material | Tender and | Just | CO2.In |
| CWA | Works | cost | Control | cotations | in | depend |
| 2305B | Accounting I | | | | time | ent |
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| COM | Business | Letter | Report | Business | Inter | CO3. |
| BC24 | Communicatio | Writing | Writing | Correspondence | natio | This |
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| EMERICANON A | | ।। सिध्दिरनेकान्तात।। | | |

| СОМ | Corporate | Inventory | Liquidation | Amalgamation and | Acco | come to know various types of busines s letters and draftin g of these letters. CO2.T |
|------------|---------------|--|-------------|-------------------------------|--|---|
| BC23 02 | Accounting II | Accounting and Pay roll Accounting | of company | Amagamation and Absorption | Acco untin g for const ructi on | he course will help the student s to get knowle dge about corpor ate accoun ting proced ure such as reconst ruction of compa nies, amalga |



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| | | | | | | mation and absorpt ion of compa nies. |
|--------------------|---------------------------|---|---|---|--|---|
| COM MM 2306A | Business Management II | Motivation, Leadership, Co- ordination, Control | Motivation, Leadership, Co- ordination, Control | Motivation, Leadership, Co- ordination, Control | Moti vatio n, Lead ershi p, Co- ordin ation, Contr ol, Rece nt Tren ds | CO2. The course will help the student s to adopt the right leaders hip style based on the exigen cies of the situatio n, This will provid e an underst anding about recent trends in busines s |



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| | | | | | | manag ement. |
|-------------------|----------------------------------|----------------------|------------------------|------------------------|---|---|
| COM CL240 5 | Elements of company Law II | Company Formation | Company Proceedings | Environment Issues. | Corp orate socia 1 Resp onsib ilities | CO2.C ommu nicatio n Skill: Able to commu nicate effecti vely, analyse the concep ts and partici pate in healthy argume nts and portray skill in commu nicatio n and in writing Posses s skills related with bankin g and other busines s. |



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| COM | Marketing | Marketing | Marketing | Marketing | Mark | CO3.St |
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| MM | Management II | Environment | Environment | Environment and | eting | udents |
| 2406A | Wanagement II | and | and | Marketing | Envir | will be |
| 2-100/1 | | Marketing | Marketing | Segmentation, | onme | demon |
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| | | n, Green | n, Green | marketing | and | the |
| | | Marketing, | Marketing, | planning, | Mark | ability |
| | | marketing | marketing | Marketing | eting | to |
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| | | Marketing | Marketing | System and | entati | knowle |
| | | Information | Information | marketing | on, | dge |
| | | System and | System and | research, e- | Gree | and |
| | | marketing | marketing | marketing | n | busines |
| | | research | research, e- | | Mark | s skills |
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| COM | Cost and | Materaial | Remuneratio | Inventory Control | Over | CO3.K |
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|--------------------|---------------------------------------|------------------------|---|---------------------------------|--------------------------|---|
| COM BRF3 501 | Business Regulatory Framework I | Indian Contract Act | Partnership firm & LLP Procedures | Agencies , Sale of goods Act | Glob al Issue s | CO3.K nowled ge and Critical Thinki ng: Acquir e skills in organiz ing, analysi ng, evaluat ing and present ing inform ation. Able to analysi s issues logicall y, consid er differe nt options and viewpo ints, make |



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| M.Sc. Ph.D. | Dist. Pune. Maharashtra, India. | |
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| | | | | | | decisio ns and act with flexibil ity, adapta bility and creativi ty. |
|-------------------|--------------------------|---|------------------------|------------------|-------------------------------------|---|
| COM AA35 02 | Advanced Accounting I | Final Account of Banking Companies | Single Entry System | Ecommerce entity | Acco untin g Stand ards | CO3.St udents will be demon strate the ability to acquire knowle dge to analysi s issues logicall y, consid er differe nt options and viewpo ints, make decisio ns |



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| COM A3504 | Auditing | Audit Programme | verification and Valuation of Assets | Audit Report | Audit ing and Assu rance Stand ard | PO1.St udents will be demon strate the ability to acquire knowle dge and busines s skills, the capacit y for self- directe d activity and the ability to work indepe ndently |
|-------------------------|--------------------------------|------------------------------|---|------------------|--|--|
| COM MMM 3505 A | Marketing Management III | Rural Marketing Issues | Social Responsibilit ies | Marketing Issues | Glob al Mark eting Issue s | CO2.In depend ent learnin g : Demon strate the ability to |



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| NAAC-SSR | Cycle IV | 2019 - 2024 | |

| COM MMM 3506 A | Marketing Management IV Cost and | Advertiseme nt | Trademark | Brand Management Activity base | E adver tisem ent | acquire knowle dge and busines s skills, the capacit y for self- directe d activity and the ability to work indepe ndently PO1.It would enable the student s to acquai nt the recent trends in the field of market ing. PO1.A |
|-------------------------|---|-------------------|-----------|--------------------------------------|----------------------------|--|
| CWA 3505 B | Works Accounting III | of Overhead | Puon | Costing | costi ng | cquire skills in organiz |



| NAAC-SSR | Cycle IV | 2019 - 2024 | | |
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| COM CWA 3506 B | Cost and Works Accounting IV | Marginal Costing | Budgetary Costing | Uniform Costing | MIS in Costi ng | CO2.It would enable the student s to acquai nt the recent trends in the field of costing |
| COM BRF3 601 | Business Regulatory Framework II | Geographica l Indications | Conssumers Complaints Issues | Trademark , copy Right Issues | Paten ts Proce dures | PO3.K nowled ge and Critical Thinki ng: Acquir e skills in organiz ing, analysi ng, evaluat ing and |



| econtrative regionation Prof. Dr. Avinash S. Jagtap | ।। सिष्टिरनेकान्तात्।। Anekant Education Society's TULJARAM CHATURCHAND COLLEGE of Arts, Science and Commerce, Baramati - 413102. Dist. Pune. Maharashtra, India. | | | | |
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| | | | | | | present ing inform ation. Able to analysi s issues logicall y, consid er differe nt options and viewpo ints, make decisio ns and act with flexibil ity, adapta bility and creativi |
|-------------|---------------|--------------------------------------|-----|----------------|----------------------------|---|
| СОМ | Advanced | Final | GST | Ratio Analysis | Fore | ty. CO3.T |
| BRF3 602 | Accounting II | Account of Cooperative Society | 031 | Kauo Anarysis | nsic Acco untin g | his help student s to getting the knowle dge of |



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| COM T3604 | Income Tax | Residential status and computation of Income Tax | Residential status and computation of Income Tax | Residential status and computation of Income Tax | Resid ential status and comp utatio n of Inco me Tax | funda mental s of accoun ting and update the knowle dge of provisi ons of the Mahar ashtra Cooper ative Society Act of 1960 CO1.It will help student s to get knowle dge about Income Tax Act and |
|--------------|------------|--|--|--|---|--|
| | | | | | | Act and also get away regardi |
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| | | | | | | on of residen tial status and inciden t of tax |
|-------------------------|---------------------------|-------------------|--------------------------------|--------------------------------|---|--|
| COM MMM 3605 A | Marketing Management V | Agree Products | Social Responsibilit ies | Industrial Marketing Issues | Glob al Mark eting Issue s | CO3.In depend ent learnin g : Demon strate the ability to acquire knowle dge and busines s skills, the capacit y for self- directe d activity and the ability to work indepe ndently |



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| COM MMM 3606 A | Marketing Management VI | Marketing organization | Marketing Strategies | Marketing Regulation | Glob alizat ion | CO2.T his will help the student s to get in depth knowle dge of market ing and salesm anship and its applica tion in today's world. |
|-------------------------|------------------------------------|---------------------------|---------------------------------|---------------------------------|------------------------------|---|
| COM CWA 3605 B | Cost and Works Accounting V | Contract costing | Process Costing | Service Costing | Lifec ycle Costi ng | CO2.A cquire skills in organiz ing, analysi ng, evaluat ing and present ing inform ation. |
| COM CWA 3606 B | Cost and Works Accounting VI | Standard Costing | Nonintegrate d Accounting | Cost Accounting Record Rules | Cost Audit | PO2.It would enable the student |



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| | An | ।। सिष्दिरनेकान्तात्।। nekant Education Society's | |

| | | | | | | s to acquai nt the recent trends in the field of costing |
|-------------|--------------------------|---|--|------------------------------------|---|---|
| PCCO 111 | Management Accounting | Application of Management Accounting | Ratio Analysis, Working Capital | Ratio Analysis, Working Capital | Ratio Anal ysis, Work ing Capit al | PO3.T his will help the student s to get in- depth knowle dge about Manag ement Accou nting and its import ance. |
| PCCO 112 | Strategic Management | Strategic Planning | Marketing Strategies | Development of Strategies | Impl emen tation of Strat egies at Glob al level | CO4.T he course will help the student s to get a thorou |



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| | | | | | | gh knowle dge about strategi c manag ement. |
|-------------|-----------------------|--------------------------|-------------------------|-------------------------|------|---|
| PCCO 113 | Advance Accounting | Accounting Principles | Accounting Standards | Accounting Standards | IFRS | CO2.T he course will help the student s to get deep knowle dge about basic accoun ting concep ts which are univers ally accepte d. He also aware about the accoun ting standar |



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| जन्मत प्रमुपेम्बर सीम्बरावे तुद्धजाराम चतुरचेव महाविद्यालय, बारामती | of Arts, Science | CHATURCHAND COLLEGE and Commerce, Baramati - 413102. | | |
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| Infinite Damanan | ।। सिध्दिरनेकान्तात्।। | | | |

| | | | | | | ds used in India. |
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| PCCO 114 | Income Tax | Residential status and computation of Income Tax | Residential status and computation of Income Tax | Residential status and computation of Income Tax | Resid ential status and comp utatio n of Inco me Tax | CO2.It will help student s to get knowle dge about Income Tax Act and also get away regardi ng provisi on of residen tial status and inciden t of tax |
| PCCO 121 | Financial Analysis and Control | Cost of Capital, Marginal Costing | Budget, Budgetary Control | Budget, Investment Decision | Budg et, Inves tment Decis ion | CO2.T his will help the student s to enable student s to acquire |



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| | Anekant Education Society's TULJARAM CHATURCHAND COLLEGE | | | |
| Electronic and | | ।। सिध्दिरनेकान्तात्।। | | |

| | | | | | | sound knowle dge of Conce pts, method s and techniq ues of manag ement accoun ting |
|-------------|-------------------------|----------------------------------|---|----------------------------------|----------------------------|---|
| PCCO 122 | Industrial Economics | Industrial Location issues | Industrial Efficiency and Productivity | Regional Industrial Imbalance | Forei gn Capit al | CO2.T he course will be able to apply econo mic theorie s and method ologies in Industr ial Locati on issues in various determ inants of the size and |



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| معدد دوست السعرام مریکی التلا تاریخی برزیکی التلام Prof. Dr. Avinash S. Jagtap M.Sc. Ph.D. PRINCIPAL | TULJARAM C of Arts, Science | CHATURCHAND COLLEGE and Commerce, Baramati - 413102. Dist. Pune. Maharashtra, India. powered Autonomous Status |
| Line Contraction | | ।। सिध्दिरनेकान्तात्।। |

| | | | | | | structu re of industr ies. |
|-------------|---------------------------------------|-------------------------|-------------------------|------|------|--|
| PCCO 123 | Specialized Areas in Accounting | Accounting Standards | Accounting Standards | IFRS | IFRS | CO3.T he course will help the student s to get knowle dge about Interna tional Financi al Reporti ng Standa rds. It would be aware about the accoun ting treatme nts for corpor ate restruct uring. |



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| PCCO 124 | Business Tax Assessment and Planning | Assessment and Planning | GST | GST | GST | CO3.It would enable the student s to acquai nt the recent trends in the field of Busine ss Tax Assess ment and Planni ng. |
|-------------------|--|----------------------------|-----------------------|-------------------------------|------------------------|---|
| COM BF530 1 | Business Finance | Sources of Finance | Financial Planning | Working Capital Management | Equit y and Debt | CO3.St udents will underst and the charact eristics of differe nt financi al assets such as money market instru ments, |



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| Electronic and | | ।। सिध्दिरनेकान्तात्।। | | |

| | | | | | | bonds, and stocks and how to buy and sell these assets in Capital Market s. |
|--------------------|---|------------------------|------------------------|------------------------|------------------------------------|---|
| COM RMB5 302 | Research Methodology for Business | Research methdology | Research methdology | Research methdology | Rese arch meth dolog y | CO2.T he course offers to the under graduat e student s to learn about the various applica tions of researc h method ology, role of researc h method |



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| | | | | | | ology in the busines s. |
|-------------------|-----------------------|----------|----------------------------------|-------------------------|---------------------------|--|
| COM AA53 03 | Advanced Adducting | Auditing | Audit of Limited Companies | Corporate Governance | CIS Envir nmen t | PO3.T his course will enable student s about audit process and proced ure to be conduc ted in corpor ate sector. Course will also make them able to find out the frauds and errors which may occur in various |



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| | An | ।। सिध्दिरनेकान्तात्।। nekant Education Society's |

| COM SAA5 | Specialized Areas in | Audit of Bank, Audit | Audit of Bank, Audit | Audit of Bank, Audit of | Audit | types of compa nies. CO3.St udents |
|-------------|---------------------------------|--|--|--|---|---|
| 304 | Auditing | of specialized units, Audit of cooperative societies, Government system of audit | of specialized units, Audit of cooperative societies, Government system of audit | specialized units, Audit of cooperative societies, Government system of audit | Bank , Audit of speci alize d units, Audit of coop erativ e socie ties, Gove rnme nt syste m of audit | will be acquiri ng skills in organiz ing analysi ng evaluat ing and present ing inform ation skill |
| COM CMFS | Capital Market and Financial | Capital Market, | Capital Market, | Capital Market, Stock Market, | Capit al | PO2.St udents |
| 5401 | services | Stock | Stock | Financial Services, | Mark | will be |
| | | Market, | Market, | Regulatory | et, | knowle |
| | | Financial | Financial | Framework for Financial Services | Stock Mark | dgeabl |
| | | Services, Regulatory | Services, Regulatory | Financial Services | Mark et, | e of domest |
| | | Framework | Framework | | Finan | ic and |
| | | for Financial | for Financial | | cial | interna |
| | | Services | Services | | Servi | tional |
| | | | | | ces, | econo |



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| | | | | | Regu lator y Fram ewor k for Finan cial Servi ces | my and organiz ational enviro nment knowle dge of ethics and ethical standar d |
|--------------------|-------------------------------------|-----------------------|------------------------|-------------------------|--|---|
| COMI EE540 2 | Industrial Economic Envorment | Industrializa tion | Economic Envirnment | Industrial Pollution | Stand up and Start up | PO3.T his course will underst and the basic concep ts of Industr ial Financ e. It will develo p awaren ess regardi ng various industr ial and enviro nmenta 1 issues |



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| | | | | | | in India. |
|----------------------|--|--|-----------------------------|--|---|--|
| COM RAAT A5403 | Recent Advances In Accounting Taxation and Audit | Recent Trends in Accounting, Frauds and Errors | GST and Carben Credit | Accounting for Government and Non-government organization | Acco untin g and Audit Proce dure for Corp orate Affai rs | CO3.T his course will enable student s about recent trends in accoun ting, auditin g and taxatio n field. Course will also make them able to find out the frauds and errors which may occur in various sectors |
| | | | | | | |



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| PGDT L111 | General Law Affecting Taxation | Hindu Succession Act 1956 | e Indian Penal Code | Civil Procedure, | Infor matio n Tech nolog y Act 2005 | CO3.T he course will provid e underst anding and workin g knowle dge of Indian Penal Code, Civil Proced ure, Right to Inform ation Act and Inform ation Techno logy Act. |
|--------------|--------------------------------------|---------------------------------|---|---|---|---|
| PGDT L112 | Income Tax | HEADS OF INCOME: SALARIES | CAPITAL GAINS AND OTHER SOURCES | ASSESSMENT OF COMPANIES AND FIRM: | RET URN , PEN ALTI ES & OFF | CO3.T he student s will acquire the knowle dge of |



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| | | | | | ENC ES: | various provisi ons of Income Tax Act, 1961. The course will impart the knowle dge of the provisi ons of penalti es, offence s and prosec utions under |
|--------------|-------------------------|-----------------------------|------------------|--------------------------------------|--|---|
| PGDT L113 | Goods & Services Tax | INTRODUC TION TO CGST | REGISTRA TION | TAX INVOICE, ACCOUNTS, RECORDS | Refu nd of integ rated tax | IT Act. CO4.T he student s will acquire the knowle dge of various provisi ons of Goods & |



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| | | | | | | Service s Tax |
|------|------------|-------------|-------------|--------------------|--------|------------------|
| | | | | | | Act, |
| | | | | | | 2017. |
| | | | | | | Studen |
| | | | | | | ts will |
| | | | | | | acquire |
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| | | | | | | skills |
| | | | | | | to |
| | | | | | | work |
| | | | | | | as tax |
| | | | | | | consult |
| | | | | | | ant, |
| | | | | | | audit |
| | | | | | | assista |
| | | | | | | nt etc. |
| PGDT | Custom Act | Prohibition | Levy And | Provision Relating | Settle | CO2.T |
| L114 | | On | Exemptions | to Convenience | ment | he |
| | | Importation | from Custom | Imports and | of | student |
| | | and | Duties | Exports Goods | Case | s will |
| | | Exportation | | Service | s, | acquire |
| | | of Goods | | | | the |
| | | | | | | knowle |
| | | | | | | dge of |
| | | | | | | various |
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| | | | | | | Custo |
| | | | | | | m Act. |
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| where respect to the first | Anekant Education Society's TULJARAM CHATURCHAND COLLEGE | | | | |
| EMERICANON A | | ।। सिध्दिरनेकान्तात।। | | | |

| | | | | | | skill among the student s to work as tax consult ant, audit assista nt etc. |
|--------------|-------------------------------------|---|-------------------------------------|---|--|--|
| PGDT L115 | Business Accounting Practices | Accounts for Non-Profit Organization : | Accounting for Hotel Industry | Goods and Services Tax Accounting | Com puter ized Acco untin g Envir onme nt: | CO3.T he student s will acquire the knowle dge of basic accoun ting proced ure. The course will impart the knowle dge of Accou nts for Non- Profit Organi zation. |





Criteria I: Curricular Aspects

1.1 Curriculum Design and Development

1.1.1. Curricula developed and implemented have relevance to the local, regional, national, and global developmental needs, which is reflected in the Programme outcomes (POs) and Course Outcomes (COs) of the Programme offered by the institution (Qualitative Metrics)

(Mention file number which has syllabus) (Academic Year 2022-23)

| Progra mme | Cours e Code | Course Title | Topic in t | Topic in the syllabus which has relevance to the developmental needs | | | | |
|--------------------------|-----------------|-----------------------------------|--------------------|--|--------------------|--------------------|--|--|
| | | | Local | National | Regional | Global | COs | |
| F. Y. B.Sc. Sem. I | USBT 111 | Diversity of Cryptoga ms | Conservat | Conservat | Conservat | Conservat | To conserve of cryptoga mic diversity. | |
| | USBT 112 | Industrial Botany - I | Entrepren eurs | Entrepren eurs | Entrepren eurs | Entrepren eurs | Develop ment of entrepren eurs and inculcate business oriented culture. | |
| | USBT 113 | Practical - I | Agro industries | Agro industries | Agro industries | Agro industries | Expertise in technolog ist and | |



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| F. Y. | USBT | Diversity | Taxonomi | Taxonomi | Taxonomi | Taxonomi | biodiversi ty conservat or. Develop |
|---------------------------|-------------|------------------------------|---|---|---|---|---|
| F. I. B.Sc. Sem. II | 121 | of Phanerog ams | st | st | st | st | ment of plant taxonomi sts and expert in identificat ion of local flora. |
| | USBT 122 | Industrial Botany - II | Agro industries | Agro industries | Agro industries | Agro industries | Students can raise the small scale industries based on agro based products. |
| | USBT 123 | Practical - II | Agro industries and fruit processing | Agro industries and fruit processing | Agro industries and fruit processing | Agro industries and fruit processing | Students can arise the small scale industries like biopestici des, biofertiliz ers and fruit processin g. |
| M. Sc. I Sem. I | PSBT1 11 | Plant | Conservat ion of | Conservat ion of | Conservat ion of | Conservat ion of | Create awareness |





| PSBT1 12 | Systema tics I Cell Biology | cryptogam ic diversity Cell biologist | cryptogam ic diversity Cell biologist | cryptogam ic diversity Cell biologist | cryptogam ic diversity Cell biologist | and need of conservati on of Cryptoga mic diversity Expertise cell biological technique |
|----------------------------|--|--|--|--|--|--|
| PSBT1 13 PSBT1 14 | Genetic s and plant Breedin g Advanc ed Botanic al techniq ues | Expertise in Genetics and plant Breeding Expertise in advanced Botanical techniques | Expertise in Genetics and plant Breeding Expertise in advanced Botanical techniques | Expertise in Genetics and plant Breeding Expertise in advanced Botanical techniques | Expertise in Genetics and plant Breeding Expertise in advanced Botanical techniques | s. To develop skills in genetics and plant breeding Expertise in advanced Botanical technique s. |
| PSBT1 15 | Practica l's based on PSBT11 11 and | Cryptoga mist | Cryptoga mist | Cryptoga mist | Cryptoga mist | Develope d skilled Cryptoga mist. |



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| | | PSBT11 | | | | | |
|---------------------|-------------|--|---|---|---|---|--|
| | | 12 | | | | | |
| | PSBT1 16 | Practica l's based on PSBT11 13 and PSBT11 | Horticultu re techniques | Horticultu re techniques | Horticultu re techniques | Horticultu re techniques | Expertise in emasculat ion and pollinatio n methods |
| M. Sc. I Sem. II | PSBT2 11 | 14 Plant Systemat ics II | Conservat ion of Cryptoga mic diversity | Conservat ion of Cryptoga mic diversity | Conservat ion of Cryptoga mic diversity | Conservat ion of Cryptoga mic diversity | Expert in cryptoga ms useful to conserve Cryptoga mic diversity |
| | PSBT2 12 | Cell Biology | Plant physiologi st and biochemis t | Plant physiologi st and biochemis t | Plant physiologi st and biochemis t | Plant physiologi st and biochemis t | Develop ment of expertise in plant physiolog y and biochemis try. |
| | PSBT2 13 | Molecula r Biology & Genetic Engineer ing | Expertize in molecular techniques | Expertize in molecular techniques | Expertize in molecular techniques | Expertize in molecular techniques | Experts required in future for genetic library of plants |



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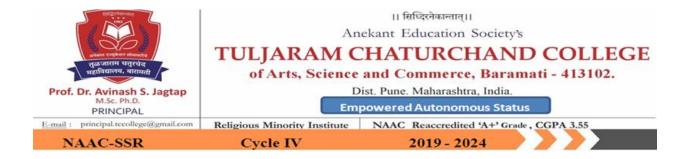
| PSBT 214 | Plant Ecology and Biodiver sity | Environm ental issues | Environm ental issues | Environm ental issues | Environm ental issues | Appreciat e the ethical, cross- cultural and historical context of environm ental issues and the links between human and natural systems. |
|-------------|---|--|--|--|--|---|
| PSBT 215 | Practical s based on PSBT 211 and PSBT 212 | Physiologi cal and biochemic al techniques | Physiologi cal and biochemic al techniques | Physiologi cal and biochemic al techniques | Physiologi cal and biochemic al techniques | Appreciat e the ethical, cross- cultural and historical context of environm ental issues and the links between human and natural systems. |
| PSBT 216 | Practical s based on PSBT 213and | Molecular biologist and ecologists | Molecular biologist and ecologists | Molecular biologist and ecologists | Molecular biologist and ecologists | Skilled molecular biologist and |



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| | PSBT | | | ecologists |
|--|------|--|--|------------|
| | 214 | | | can help |
| | | | | to solve |
| | | | | the |
| | | | | critical |
| | | | | problems |
| | | | | related |
| | | | | with plant |
| | | | | diseases |
| | | | | and |
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| | | | | ent of |
| | | | | characteri |
| | | | | stics of |
| | | | | plants. |





COMPUTER SCIENCE

| Program | Course Code | Course Title | _ | Topic in the syllabus which has relevance to the developmental needs | | | | | |
|--|----------------|-------------------------------------|----------------------|--|-----------------------------|-----------------------|--|--|--|
| me | Code | The | Local | National | Regional | Global | & COs | | |
| B.Sc. (Computer Science) (UG) | UCSCO 111 | Basic Programm ing using C | Local C Tokens | National C Tokens | Regional C Tokens | Global C Tokens | 1) CO1: Explore algorithmi c approaches to problem solving. 2)CO2: Develop programs using control structures | | |
| | | | | | | | and arrays in 'C' | | |



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| UCSCO | DBMS-II | Relatio | Relationa | Relationa | 1) PSO2: |
|-------|---------|---------|-----------|-----------|--------------|
| 122 | | nal | 1 | 1 | Design, |
| | | Data | Data | Data | correctly |
| | | Model | Model | Model | implement |
| | | | | | and |
| | | | | | document |
| | | | | | solutions |
| | | | | | to |
| | | | | | significant |
| | | | | | Computati |
| | | | | | onal |
| | | | | | problems. |
| | | | | | 2) CO7: |
| | | | | | Additionall |
| | | | | | y, using a |
| | | | | | database |
| | | | | | managemen |
| | | | | | t system, |
| | | | | | students |
| | | | | | will be able |
| | | | | | to |
| | | | | | construct, |
| | | | | | assess, and |
| | | | | | design |
| | | | | | real |
| | | | | | database |
| | | | | | application |
| | | | | | S. |



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| | UCSO | 0 | Advance | ed | Nested | | Nested | | 1)CO1: |
|---------|-------|-----|---------|-----|----------|-----------|-----------|------------|--------------|
| | 121 | 00 | Program | | macro | | macro | | Develop |
| | | | ing Usi | | | | | | programs |
| | | | C | 0 | | | | | using |
| | | | _ | | | | | | control |
| | | | | | | | | | structures, |
| | | | | | | | | | pointers, |
| | | | | | | | | | strings, |
| | | | | | | | | | structures |
| | | | | | | | | | and files in |
| | | | | | | | | | 'С'. |
| | | | | | | | | | 2)CO2:Desi |
| | | | | | | | | | gn and |
| | | | | | | | | | develop |
| | | | | | | | | | solutions to |
| | | | | | | | | | real world |
| | | | | | | | | | problems |
| | | | | | | | | | using C. |
| | | Cry | ptograp | Int | roducti | Introduct | Introduct | Introducti | 1)CO2: In |
| | PSCS1 | hy | and | on | to | ion to | ion to | on to | future |
| | 12 | Cył | ber | • | ber | Cyber | Cyber | Cyber | these |
| | | For | ensics | Fo | rensics, | Forensics | Forensics | Forensics, | experts |
| | | | | - | pes of | , Types | , Types | Types of | will be an |
| | | | | | omputer | of | of | Computer | asset to |
| | | | | | rensics | Compute | Compute | Forensics | this |
| M.Sc. | | | | Sy | stems | r | r | Systems | country for |
| (Comp | | | | | | Forensics | Forensics | | serving in |
| uter | | | | | | Systems | Systems | | the fields |
| Science | | | | | | | | | of |
|) | | | | | | | | | informatio |
| (PG) | | | | | | | | | n security |
| | | | | | | | | | and digital |
| | | | | | | | | | forensics. |
| | | | | | | | | | 2)CO4: |
| | | | | | | | | | Analyse |
| | | | | | | | | | and |
| | | | | | | | | | evaluate |
| | | | | | | | | | the cyber |



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| | | | 0 | | | security needs of an organizatio n. |
|-------------|--|---------------------------------------|---------------------------------------|---------------------------|---------------------------------------|---|
| PSCS1 16 | Lab Course on Dot Net, PPL,DBT& DAA (C) | Querying document s in NoSQL | Querying documen ts in NoSQL | | Querying document s in NoSQL | PO2: To prepare necessary knowledge base for developme nt in Computer Science. |
| PSCS1 23 | Emerging Technologi es - Python Programmi ng – I(Basic) (C) | Mail and Scheduler | Mail and Schedule r | Mail and Schedule r | Mail and Scheduler | CO1: Students will understand all the important and beneficial concepts of Python Programmi ng. CO2: Students will learn Practical implement ation of Python Programmi ng concepts Units Title and Contents. |





| DG GG 1 | D | | | | | |
|---------|-------------|------------|-----------|-----------|----------|-------------|
| PSCS1 | Dot Net | validation | validatio | validatio | | 1)CO1: |
| 24 | (Advanced) | in | n in | n in | | Ability to |
| | (C) | ASP.NET | ASP.NE | ASP.NE | | write the |
| | | | Т | Т | | Web |
| | | | | | | application |
| | | | | | | using |
| | | | | | | ASP.Net |
| | | | | | | Core |
| | | | | | | MVC. |
| | | | | | | 2)CO2: |
| | | | | | | Able to |
| | | | | | | code |
| | | | | | | different |
| | | | | | | web-based |
| | | | | | | application |
| | | | | | | S. |
| PSCS1 | Lab Course | MVC | MVC | MVC | MVC | 1)CO1: |
| 25 | on Dot Net, | Basic | Basic | Basic | Basic | Students |
| | DIP and | Programs | Programs | Programs | Programs | will |
| | DM&DW(| e | C | C | e | understand |
| | C) | | | | | all the |
| | , | | | | | important |
| | | | | | | and |
| | | | | | | beneficial |
| | | | | | | concepts of |
| | | | | | | Python and |
| | | | | | | Dot Net |
| | | | | | | Programmi |
| | | | | | | ng. |
| | | | | | | 2) CO2: |
| | | | | | | Students |
| | | | | | | will learn |
| | | | | | | Practical |
| | | | | | | implement |
| | | | | | | ation of |
| | | | | | | Python and |
| | | | | | | Dot Net |



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ENVIRONMENTAL SCIENCE

| Program me | Cours e | Course Title | Topic in the syllabus which has relevance to the developmental needs | | | POs, PSO's & | |
|---|-------------|---|--|--|--|--|--|
| (UG) | Code | | Local | National | Regional | Global | COs |
| B.Sc. Environm ental Science F.Y.B.Sc. (Sem-I) | USES 111 | Fundame ntals of Environm ental Science-I | Environm ental issues | Environm ental issues | Environm ental issues | Environm ental issues | CO1: Students will be able to understand the issues of environme nt. PO1: Imparts conceptual knowledge of environme nt, their adaptations and interrelatio nship. |
| | USES 112 | Fundame ntals of Environm ental Biology-I | Ecologica l adaptatio ns and bio- resources | Ecologica l adaptatio ns and bio- resources | Ecologica 1 adaptatio ns and bio- resources | Ecologica 1 adaptatio ns and bio- resources | CO1: Aware about the environme nt and its significanc e PO1: To learn about interrelatio nship and |



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| | | | | | | | discipline in environme nt science. |
|-----------------------|-------------|--|------------------------------|------------------------------|------------------------------|------------------------------|---|
| | USES 113 | Practical based on USES111 and USES112 | Lab safety rules | - | - | - | CO1: Students will be able to understand the basics of lab safety rules. PO1: Understand the knowledge about Environme ntal problems and their solutions. |
| F.Y.B.Sc. (Sem-II) | USES 121 | Fundame ntals of Environm ental Science- II | GIS and remote sensing | GIS and remote sensing | GIS and remote sensing | GIS and remote sensing | CO1: Understand the basics of Environme ntal Sciences. PO1: Students will be able to understand application s of GIS |



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| | | | | | | | and remote sensing. |
|------------------------|-------------|--|--|--|--|--|---|
| | USES 122 | Fundame ntals of Environm ental Biology- II | Biodivers ity and its conservat ion | Biodivers ity and its conservat ion | Biodivers ity and its conservat ion | Biodivers ity and its conservat ion | CO1: Students will be able to understand to maintain life supporting systems and essential ecological processes. PO1: aware about conservatio n and sustainable use of Biodiversit y. |
| | USES 123 | Practical based on USES121 and USES 122 | Food adulterant and their human health effect | Food adulterant and their human health effect | Food adulterant and their human health effect | Food adulterant and their human health effect | CO1: Students will be able to understand sustainable use of healthy food. |
| S.Y.B.Sc. (Sem-III) | EVS 2301 | Natural resources | resources | resources | resources | resources | CO1: Students will be able to understand |



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| | | | | | | future sustainabili ty of natural resources. PO1: learn basic resources natural, forest, Grasslands |
|-------------|---|---|---|---|---|---|
| EVS 2302 | Environm ental pollution and control-I | Control of Soil, and water pollution | Control of Soil, and water pollution | Control of Soil, and water pollution | Control of Soil, and water pollution | CO1: Students will help to acquire knowledge about treatments for maintainin g soil and water quality. PO1: understand resources, vermicultur e in day to day life, Sponge fishery |
| EVS 2303 | Practical based on EVS 2301 and EVS 2302 | Rain water harvestin g | Rain water harvestin g | Rain water harvestin g | Rain water harvestin g | CO1: Students will be able to understand easy way save water and prevent |



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| | | | | | | | soil erosion and flood hazard. |
|-----------------------|-------------|---|---|---|---|---|---|
| S.Y.B.Sc. (Sem-IV) | EVS 2401 | Solid and Hazardou s waste managem ent | Plastic and e- waste | Plastic and e- waste | Plastic and e- waste | Plastic and e- waste | CO1: Students will help to acquire knowledge about how to reduce, reuse and recycle of waste. PO1: aware about solid waste processing, recovery and energy generation. |
| | EVS 2402 | Environm ental pollution and control-II | Control of Air and noise pollution | Control of Air and noise pollution | Control of Air and noise pollution | Control of Air and noise pollution | CO1: Students will learn how to access pollution sources, study exposure pathways and fate and evaluate consequenc es of human exposure to pollution |



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| EN(\$19mm) | | ।। सिध्दिरनेकान्तात।। |

| | | | | | | | and its impacts to environme ntal quality. |
|----------------------|-------------|---|---|---|---|---|---|
| | EVS 2403 | Practical based on EVS 2401 and EVS 2402 | Total chloroph yll of plant | Total chloroph yll of plant | Total chloroph yll of plant | Total chloroph yll of plant | CO1: Students will learn to identify impacts of pollutant on plants. |
| T.Y.B.Sc. (Sem-V) | EVS 3501 | Ecosyste m managem ent | Terrestria l and aquatic ecosyste m managem ent | Terrestria 1 and aquatic ecosyste m managem ent | Terrestria l and aquatic ecosyste m managem ent | Terrestria l and aquatic ecosyste m managem ent | CO1: Students will be aware about Terrestrial and aquatic ecosystem manageme nt. PO1: learn terrestrial ecosystem and its detailed classificati on. |
| | EVS 3502 | Wildlife Biology | Threats to Wildlife biodiversi ty | Threats to Wildlife biodiversi ty | Threats to Wildlife biodiversi ty | Threats to Wildlife biodiversi ty | CO1: To protect the remaining population of endangered species by banning hunting, giving legal |



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| | | | | | | protection to their habitat and finally, restricting wildlife trade. PO1: understandi ng diversity of wildlife and their scope. |
|-------------|--------------------|----------------------------|----------------------------|----------------------------|----------------------------|---|
| EVS 3503 | Geoscien ce | Disaster managem ent | Disaster managem ent | Disaster managem ent | Disaster managem ent | CO1: Develop and understandi ng about various types of disaster and to create awareness about disaster prevention and risk reduction. PO1: Aware about conservatio n natural resources. |
| EVS 3504 | Nature Conserva | Awarenes s about | Awarenes s about | Awarenes s about | Awarenes s about | CO1: Students |
| | tion | nature | nature | nature | nature | aware about |



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|----------|------|----------|--------------|--------------|--------------|--------------|--------------|
| | | | conservat | conservat | conservat | conservat | nature |
| | | | ion | ion | ion | ion | conservatio |
| | | | | | | | n methods |
| | | | | | | | and their |
| | | | | | | | internation |
| | | | | | | | al and |
| | | | | | | | national |
| | | | | | | | efforts. |
| | | | | | | | PO1: |
| | | | | | | | understood |
| | | | | | | | objectives |
| | | | | | | | and |
| | | | | | | | challenges |
| | | | | | | | of nature |
| | | | | | | | conservatio |
| | | | | | | | n. |
| <u> </u> | EVS | Environm | Environm | Environm | Environm | Environm | CO1: |
| | 3505 | ental | ental | ental | ental | ental | Students |
| | | | ethics | ethics | ethics | ethics | aware |
| | | Governan | | | | | about the |
| | | ce, Laws | | | | | fundamenta |
| | | and | | | | | l duties and |
| | | Ethics | | | | | rights and |
| | | | | | | | also |
| | | | | | | | environme |
| | | | | | | | ntal ethics. |
| | | | | | | | PO1: |
| | | | | | | | understood |
| | | | | | | | the Acts |
| | | | | | | | and laws |
| | | | | | | | related to |
| | | | | | | | |
| | | | | | | | Environme |
| | | | | | | | nt |
| | EV.C | г · | X 7 ' | X 7 ' | X 7 ' | X 7 ' | protection. |
| | EVS | Environm | Vermi | Vermi | Vermi | Vermi | CO1: |
| | 3506 | ental | composti | composti | composti | composti | Students |
| | | Biotechn | ng and | ng and | ng and | ng and | understandi |
| | | ology | Bio fuels | Bio fuels | Bio fuels | Bio fuels | ng |
| | | | | | | | |



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| | | | | | | biotechnolo gy and used to control the environme ntal pollution. PO1: understood composting , vermicomp osting and biofuel. |
|-------------|---|--|---|---|---|---|
| EVS 3507 | Practical based on EVS 3501 and EVS 3502 | Vegetatio n by Belt/Line method | - | - | - | CO1: Students will be expert to conclude the significanc e of biological experiment s. PO1: aware the students about environme ntal laws and ethics. |
| EVS 3508 | Practical based on EVS 3503 and | Lapse rate, Simple win d | - | - | - | CO1: To understand interpretati on of |



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| | | EVS 3504 | rose, compoun d wind rose diagram and climogra ph | | | | meteorolog ical parameters. |
|-----------------------|-------------|---|---|---|---|---|--|
| | EVS 3509 | Practical based on EVS 3505 and EVS 3506 | Public interest litigation, CPCB | Public interest litigation, CPCB | - | - | CO1: Students aware about the fundamenta l duties, rights and authority of pollution control. |
| T.Y.B.Sc. (Sem-VI) | EVS 3601 | Climate Change | Conseque nces and Challeng es, Confronti ng Climate Change | Conseque nces and Challeng es, Confronti ng Climate Change | Conseque nces and Challeng es, Confronti ng Climate Change | Conseque nces and Challeng es, Confronti ng Climate Change | CO1: Sensitize about Impacts of climate change and future goals and of sustainabili ty. PO1: Understand Methodolo gies for impact assessment s and current practices of the |



| | | | | | | societies. |
|-------------|------------------------------------|--|--|--|--|---|
| | | | | | | |
| EVS 3602 | Analytica l Methods | Chemistr y of Biologica lly Important Molecule s | Chemistr y of Biologica lly Important Molecule s | Chemistr y of Biologica lly Important Molecule s | Chemistr y of Biologica lly Important Molecule s | CO1: Students will understand the physiologic al function that regulates the proper growth and developme nt of living things. PO1: Understood the instrument handling technique. |
| EVS 3603 | Sustainab le Develop ment | Goals and Issues | Goals and Issues | Goals and Issues | Goals and Issues | CO1: Students will understand state of society in which living condition and resources are use to meet human needs |



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| | | | | | | without jeopardizin g the integrity and stability of natural system, ensuring a safer future for future for future generation. PO1: student aware about conservatio n natural resources |
|------|---------------------|-------------|-------------|-------------|-------------|--|
| EVS | Environm | Statistical | Statistical | Statistical | Statistical | CO1: It |
| 3604 | ental Statistics | models | models | models | models | helps to students to environme ntal problems in terms of mathematic al modeling to understand the impact of the chosen variables under study and show the direction of |



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| | | | | | | change in positive or negative manner. PO1: Understand basic concepts of probability. |
|-------------|---|---|---|---|---|--|
| EVS 3605 | Environm ental Risk and Assessme nt Managem ent | Risk Managem ent | | | | CO1: Students will aware about to identify risk at an early stage and take the necessary steps to measures to mitigate its harmful effects. |
| EVS 3606 | Environm ental Economi cs And Audit | Rural planning and developm ent | Rural planning and developm ent | Rural planning and developm ent | Rural planning and developm ent | CO1: Students will acquire knowledge about to achieve rural developme nt through the allocation and manageme nt of |



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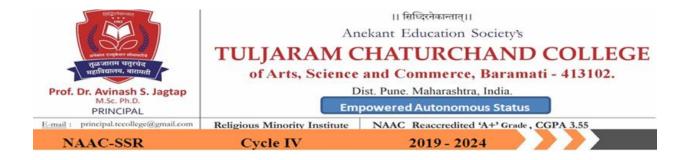
| | | | | | | resources, mediated by develop mentalist configurati on and local communiti es |
|-------------|--|---|---|---|---|--|
| EVS 3607 | Practical based on EVS 3601 to EVS 3603 | Sustainab le farming practices, green Building | Sustainab le farming practices, green Building | Sustainab le farming practices, green Building | Sustainab le farming practices, green Building | CO1: Students will reduce their reliance on non renewable energy, reduce chemical use and save scarce resources. Students will aware to reduce pollution and waste reduction measures like reuse and recycling |
| EVS 3608 | Practical based on EVS 3604 to | Fire alarm systems | Fire alarm systems | Fire alarm systems | Fire alarm systems | CO1: Students will understand |
| | 2.30.00 | | | | | how safety system |



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| | EVS 3606 | | | | | works and risk manageme nt |
|-------------|-------------|---|---|---|---|--|
| EVS 3609 | Project | Environm ental issues, Audits, use of science and technolog y | - | - | - | CO1: Students will experience about innovative methodolo gy to solve environme ntal problems |





MATHEMATICS

| Program me | Cou rse Cod | Course Title | Topic in the syllabus which has relevance to the developmental needs | | | POs, PSO's & Cos | |
|----------------------------------|-------------------|------------------------------------|--|--|---------------------------------------|---|--|
| | e | | Local | National | Regional | Global | 005 |
| B.Sc. (Mathem atics) UG | MA T 2301 | Multivari able Calculus I | Environm ental science and resource managem ent | National infrastruct ure and transporta tion planning | Economic policy and analysis | Global economic system and trade | CO1: Learning multivariabl e calculus will develop skills of students to solve complex problems in mathematic s and science. PO1: Disciplinar y Knowledge : Demonstrat e comprehens ive knowledge of the disciplines that form a part of a graduate programme. Execute strong |



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| | | | | | | | theoretical and practical understandi ng generated from the specific graduate programme in the area of work. |
|----------------------------------|-----------------|---|--|---|----------------------------------|---------------------|--|
| B.Sc. (Mathem atics) UG | MA T 2302 | Laplace Transfor m and Fourier Series | Signal processing and communic ation system | Medical imaging and healthcare technolog y | Energy and power system | Climate modeling | CO1: Able to solve differential equations using Laplace Transform and to calculate Fourier Series of functions. PO1: Disciplinar y Knowledge : Demonstrat e comprehens ive knowledge of the disciplines that form a part of a |



| | | | | | | | graduate programme. Execute strong theoretical and practical understandi ng generated from the specific graduate programme in the area of work. CO1: |
|----------------------------------|-----------------|------------------------------------|--|--|---------------------------------------|--|--|
| B.Sc. (Mathem atics) UG | MA T 2402 | Multivari able Calculus I | Electrical engineerin g and power distributio n | National defense and aerospace engineeri ng | Natural resource managem ent | Satellite communic ation and space exploratio n | Student will able to solve problems in integration which are critical in some science subjects. CO2: Student will enhance ability of problem solving and will improve analytical thinking. |



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|---|--------------|
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| | | | | | | | PO1: Disciplinar |
|---------|-----------|-----------------|----------|----------|------------|-------------------|-----------------------|
| | | | | | | | y Knowledge |
| | | | | | | | : |
| | | | | | | | Demonstrat |
| | | | | | | | e |
| | | | | | | | comprehens |
| | | | | | | | ive |
| | | | | | | | knowledge |
| | | | | | | | of the |
| | | | | | | | disciplines |
| | | | | | | | that form a |
| | | | | | | | part of a |
| | | | | | | | graduate |
| | | | | | | | programme. |
| | | | | | | | Execute |
| | | | | | | | strong theoretical |
| | | | | | | | and |
| | | | | | | | practical |
| | | | | | | | understandi |
| | | | | | | | ng |
| | | | | | | | generated |
| | | | | | | | from the |
| | | | | | | | specific |
| | | | | | | | graduate |
| | | | | | | | programme |
| | | | | | | | in the area |
| | | | | | | | of work. |
| | | | Traffic | Environm | Local | Aerospace | CO2: |
| B.Sc. | 3.6.4 | Ordinary | Control, | ental | Industrial | and Space | Identify the |
| (Mathem | MA | Different | Water | Policy | Processes | Exploratio | appropriate |
| atics) | T 2504 | ial Equation | Resource | and | , Natural | n, Global | method to |
| UG | 3504 | Equation | Managem | Climate | Resource | Energy Managem | solve non- |
| | | S | ent | Change | Managem | U | homogenou |
| | | | | _ | ent | ent | S |



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| | | | | | | | differential equation. PO8: Environme nt and Sustainabil ity: Understand the impact of the scientific solutions in societal and environmen tal contexts and demonstrate the knowledge of and need for sustainable developmen t. |
|----------------------------------|-----------------|----------------------------|---|---|---|---|---|
| B.Sc. (Mathem atics) UG | MA T 3505 | Operatio ns Research | Linear Programm ing Model, Transport ation Model, Assignme nt Model | Linear Program ming Model, Transport ation Model, Assignme nt Model | Linear Program ming Model, Transport ation Model, Assignme nt Model | Linear Programm ing Model, Transport ation Model, Assignme nt Model | CO1: Model the decision making problems by using LP techniques. PO2: Critical Thinking and Problem solving: Exhibit the |



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| | | ।। सिथ्दिलेकान्तात्।। nekant Education Society's CHATURCHAND COLLEGE | | | |

| | | | | | | | skills of analysis, inference, interpretatio n and problem- solving by observing the situation closely and design the solutions. |
|----------------------------------|-----------------|--|---|--|--|---|---|
| B.Sc. (Mathem atics) UG | MA T 3604 | Partial Different ial Equation s | Heat Transfer, Groundwa ter flow, Traffic flow in complex road system | Energy distributio n and grid optimizati on, Natural Disaster Prediction and Response | Environm ental Impact Assessme nts | Oceanogr aphy and sea level rise, Tsunami and natural disaster simulation | CO1: Student will be able to classify the partial differential equation. Identify methods and implement on solving Pfaffian differential equations. PO8: Environme nt and Sustainabil ity: Understand the impact of the scientific solutions in |



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| | | | | | | | societal and environmen tal contexts and demonstrate the knowledge of and need for sustainable developmen t. |
|----------------------------------|-----------------|------------------------------------|--|---|---|--|---|
| B.Sc. (Mathem atics) UG | MA T 3605 | Optimiza tion Techniqu es | Network Analysis, Game Theory, Sequencin g Problems, Replacem ent and Maintenan ce Model | Network Analysis, Game Theory, Sequenci ng Problems, Replacem ent and Maintena nce Model | Network Analysis, Game Theory, Sequenci ng Problems, Replacem ent and Maintena nce Model | Network Analysis, Game Theory, Sequencin g Problems, Replacem ent and Maintenan ce Model | CO1: Develop mathematic al models associated with network flows and related real life applications CO2: Should find Nash equilibrium in mixed strategies in games 2x2 and 2xN. CO3: Knows Lagrange multipliers method for solving |



| | | | | | | | problems on finding extremum. PO2: Critical Thinking and Problem solving: Exhibit the skills of analysis, inference, interpretatio n and problem- solving by observing the situation closely and |
|----------------------------------|-----------------|---|--|---|---|---|--|
| M.Sc. (Mathem atics) PG | PSM T 115 | Ordinary Different ial Equation s | Traffic Control, Water Resource Managem ent | Environm ental Policy and Climate Change | Local Industrial Processes , Natural Resource Managem ent | Aerospace and Space Exploratio n, Global Energy Managem ent | design the solutions. CO1: Student will be able to find the complete solution of a nonhomoge neous differential equations as a linear combinatio n of complemen |



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| | | | tary |
|--|--|--|--------------|
| | | | function |
| | | | and a |
| | | | particular |
| | | | solution. |
| | | | CO2: |
| | | | Student will |
| | | | be able to |
| | | | understand |
| | | | the |
| | | | complete |
| | | | solution of |
| | | | a |
| | | | nonhomoge |
| | | | neous |
| | | | differential |
| | | | equation |
| | | | with |
| | | | constant |
| | | | coefficients |
| | | | by the |
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| | | | coefficients |
| | | | |
| | | | PO8: |
| | | | Environme |
| | | | nt and |
| | | | Sustainabil |
| | | | ity: |
| | | | Understand |
| | | | the impact |
| | | | of the |
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| | | | | | | | tal contexts and demonstrate the knowledge of and need for sustainable developmen t. |
|----------------------------------|-----------------|-------------------|---|----------------------------------|------------------------------|---|--|
| M.Sc. (Mathem atics) PG | PSM T 124 | Linear Algebra | Statistics and data analysis for local research | National economic planning | Environm ental studies | Global supply chain managem ent | CO1: matrix representati on of vector spaces, properties of vector spaces and their applications in real world. PO1: Disciplinar y Knowledge : Demonstrat e comprehens ive knowledge of the disciplines that form a part of a postgraduat e |



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| | | | | | | | programme. Execute strong theoretical and practical understandi ng generated from the specific programme in the area of work. |
|----------------------------------|-----------------|--|---|--|--|---|---|
| M.Sc. (Mathem atics) PG | PSM T 125 | Partial Different ial Equation s | Heat Transfer, Groundwa ter flow, Traffic flow in complex road system | Energy distributio n and grid optimizati on, Natural Disaster Prediction and Response | Environm ental Impact Assessme nts | Oceanogr aphy and sea level rise, Tsunami and natural disaster simulation | CO1: Solving of PDE and finding their applications PO8: Environme nt and Sustainabil ity: Understand the impact of the scientific solutions in societal and environmen tal contexts and demonstrate the knowledge |



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| M.Sc. (Mathem atics) PG | MA T 5304 Gra The | aph eory Social network analysis | National security and defense planning | Cybersec urity and network security | Global transportat ion and logistics network | of and need for sustainable developmen t. CO1: Student will be able to apply principles and concepts of graph theory in practical situations. PO2: Critical Thinking and Problem solving: Exhibit the skill of critical thinking and understand scientific texts and place scientific statements and themes in contexts and also evaluate them in |
|----------------------------------|----------------------------|---|--|--|--|--|
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| | | | | | | | terms of generic conventions . Identify the problem by observing the situation closely, take actions and apply lateral thinking and analytical skills to design the solutions. |
|----------------------------------|-----------------|------------------------------|--|---|---|--|---|
| M.Sc. (Mathem atics) PG | MA T 5305 | Applied Mathema tics I | Promoting scientific inquiry in education | Contributi on to space exploratio n and technolog y | Regional observato ries and science centers | Contributi on to astrophysi cs and cosmolog y | CO1: Student will be able to understand various celestial phenomeno n, like rising and setting of stars, motion of sun, twilight, dip of horizon and effects of refraction on the |



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| | | | observation |
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| | | | of stars and |
| | | | planets in |
| | | | the sky. |
| | | | PO4: |
| | | | Research- |
| | | | related |
| | | | skills and |
| | | | Scientific |
| | | | temper: |
| | | | Infer |
| | | | scientific |
| | | | literature, |
| | | | build a |
| | | | sense of |
| | | | enquiry and |
| | | | able to |
| | | | formulate |
| | | | test, |
| | | | analyse, |
| | | | interpret |
| | | | and |
| | | | establish |
| | | | hypothesis |
| | | | and |
| | | | research |
| | | | questions; |
| | | | and to |
| | | | identify and |
| | | | consult |
| | | | relevant |
| | | | sources to |
| | | | academics |
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| | | | ethics, |
| | | | scientific |
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| | | | | | | | creating awareness about intellectual property rights and issues of plagiarism. CO1: |
|----------------------------------|-----------------|---------------------|--|--|--|---|--|
| M.Sc. (Mathem atics) PG | MA T 5403 | Fourier Analysis | Signal processing and communic ation system | National healthcare and medical technolog y | Manufact uring and industrial processes | Global environme ntal and climate studies | Student will be able to understand the treatment of Fourier Series and their applications to boundary value problems in PDE of engineering and physics. PO5: Trans- disciplinar y knowledge: Create new conceptual, theoretical and methodolog ical understandi ng that |



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| | | | | | | | integrates and transcends beyond discipline- specific approaches to address a common problem. |
|----------------------------------|-----------------|-------------------------------|--|---|---|--|--|
| M.Sc. (Mathem atics) PG | MA T 5405 | Applied Mathema tics II | Promoting scientific inquiry in education | Contributi on to space exploratio n and technolog y | Regional observato ries and science centers | Contributi on to astrophysi cs and cosmolog y | CO1: Student will be able to understand Kepler's law, interior and superior planets, satellite, sideral time and elongation of planet. PO4: Research- related skills and Scientific temper: Infer scientific literature, build a sense of enquiry and able to formulate |



| refractive, werner | ।। सिष्टिरनेकान्तात्।। Anekant Education Society's TULJARAM CHATURCHAND COLLEGE of Arts, Science and Commerce, Baramati - 413102. Dist, Pune, Maharashtra, India, | | | | |
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| | | | | | | | test, analyse, interpret and establish hypothesis and research questions; and to identify and consult relevant sources to academics and research ethics, scientific conduct and creating awareness about intellectual property rights and issues of plagiarism. |
|----------------------------------|-----------------|---------|--|--|--|---|--|
| M.Sc. (Mathem atics) PG | MA T 5406 | Project | Problem- solving and critical thinking | Advancin g mathemat ical knowledg e and innovatio n | Promotin g scientific inquiry and curiosity | Promoting internatio nal scientific collaborati on | PO4: Research- related skills and Scientific temper: Infer scientific literature, build a |



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| | | | sense of |
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| | | | enquiry and |
| | | | able to |
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| | | | hypothesis |
| | | | and |
| | | | research |
| | | | questions; |
| | | | and to |
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| | | | sources to |
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| | | | ethics, |
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| | | | conduct and |
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| | | | rights and |
| | | | issues of |
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MICRPBIOLOGY

| Progra mme | Course Code | Course Title | Topic in t | POs, PSO's & COs | | | |
|---------------|----------------|---|---|------------------------|--------------|--|---|
| | | | Local | Natio nal | Regio nal | Global | |
| F.Y.BS c. | USMB111 | (Theory) Introdu ction to Microbi ology I | Unit 2 : Applicatio ns of Microbiol ogy with special reference to: Significan ce of normal flora and probiotics in human health | | | Unit 1: Scope of Microbiology: a)Industrial Microbiology and Biotechnology b)Medical Microbiology c) Immunology d) Microbial Genetics e) Geomicrobiolog y f) Food and Dairy Microbiology g) Nano- Biotechnolog | CO:1 To cater the needs of students for building up knowledg e in the basics of Microbiol ogy. |
| F.Y.BS c. | USMB112 | (Theory) Basic Techni ques In Microbi ology I | Unit 3 : Characteri stics of an ideal Disinfecta nt Checking of Efficiency of Disinfecta nt – Phenol | | | Unit2:Microscopya)Structure,working and raydiagram of : i.BrightFieldMicroscopyii.DarkFieldMicroscopy | CO:2 To understan d the scope and applicatio ns of microbes in different industrial sectors. |



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|--------|---------|----------|-------------------|--------------------|-------------|
| | USMB113 | (Practic | t Exot no. 1 | Observation of | CO:3 |
| F.Y.BS | | al) | Principle | Microorganisms | То |
| с. | | Practica | & | using bright field | understan |
| | | 1 | Standard | microscope – | d the |
| | | Course | Operating | Bacteria, | historical |
| | | Ι | Procedure | Protozoa, Molds | developm |
| | | | s (SOP) | and Yeasts, | ents in the |
| | | | for | Algae – from | microbiol |
| | | | common | natural habitat | ogy field. |
| | | | microbiol | | |
| | | | ogy laboratory | | |
| | | | instrument | | |
| | | | s e.g. | | |
| | | | Incubator, | | |
| | | | Hot Air | | |
| | | | Oven, | | |
| | | | Autoclave | | |
| | | | , | | |
| | | | Colorimet | | |
| | | | er, pH | | |
| | | | Meter, | | |
| | | | Laminar | | |
| | | | air flow | | |
| | | | hood, | | |
| | | | Centrifuge | | |
| | USMB121 | Introdu | | Unit 1 : Bacterial | CO:1 |
| F.Y.BS | | ction to | | Cytology | The major |
| с. | | Microbi | | Structure, | outcome |
| | | ology II | | chemical | is the |
| | | (Theory | | composition and | understan |
| | |) | | functions of the | ding of |
| | | | | following: a) | different |
| | | | | Flagella (Gram- | fields and |
| | | | | positive and | sectors of |
| | | | | Gram-negative) | microbiol |



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| | | | | and types of motility (spirochetal and gliding) | ogy and their importanc e in relation to the environm ent. |
|--------------|---------|---|---|--|--|
| F.Y.BS c. | USMB122 | (Theory) Basic Techni ques in Microbi ology II | | Unit 3 : Isolation and Preservation a) Isolation of bacteria by - i. Streak Plate Method ii. Spread Plate Method iii. Pour Plate Method | CO:2 Understan ding of role of microbes in environm ent. |
| F.Y.BS c. | USMB123 | (Practic al) Practica 1 Course II | Expt No. 9. Study the effect of soap and disinfecta nt on skin microflora Expt no.7 Checking sterilizatio n efficiency of autoclave using a biological indicator | Cultivation of microorganisms : a) Preparation of simple laboratory media (solid and liquid) (Nutrient Broth & Agar, MacConkey's Broth & Agar & Potato Dextrose Broth & Agar) | CO:3 Students shall earn the knowledg e of designing of simple experimen ts through historical backgroun d |



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| S.Y.BS c. | MICRO23 01 | (Theory) Bacteri al System atics and Physiol ogy | Bacterial physiolog y a.Definati on of metabolis m, catabolis m, anabolism , respiration and fermentati on | | CO:1 Students will learn, how synthesis of ATP take place in cell. CO:2 Student will understan d the nature and role of metabolic reaction |
|--------------|---------------|---|--|--|--|



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| | | | | | in cell growth . |
|--------------|---------------|---|---|---|--|
| S.Y.BS c. | MICRO23 02 | Theory) Industri al and Soil Microbi ology | I)Soil microbiol ogy Role of microorga nisms in compostin | | CO:1 To understan d the basic idea of designing |
| | | | g | | of fermenter. CO:2 To get acquainte d with the constituen ts of fermentati on media |
| S.Y.BS c. | MICRO23 04 | (Practic al) Practica 1 course based on MICR O2301 and MICR O2302 | | Expt 1 A)Absorbance measurement for bacterial culture b)Growth curve plotting by using computer software | CO:1 To impart the basic skill for biochemic al identificat ion of organisms CO:2 To get idea about the air flora |



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| S.Y.BS c. | MICRO24 01 | (Theory) Air and Water Microbi ology | Air flora: Transient nature of air flora Droplet, droplet nuclei, and aerosols | Air pollution: Chemical pollutants, their sources in air and effects on human health. | CO:1 Students can analyse microflora of air and water and its methods of enumerati on of bacteria |
|--------------|---------------|---|---|---|---|
| S.Y.BS c. | MICRO24 02 | (Theory) Bacteri al Genetic s | Prokaryoti c genome organizati on. Comparati ve account of different forms of DNA. | Prokaryotic genome organization.Co mparative account of different forms of DNA. | CO:1 Studenys can analyse the basic concepts code, DNA replicatio n etc. |
| S.Y.BS c. | MICRO24 03 | (Practic al) Practica 1 course based on MICR O2401 and MICR O2402 | Air sampling using an air sampler & calculatio n of air flora from different locations with the knowledg e of respective | Air sampling using an air sampler & calculation of air flora from different locations with the knowledge of respective standards of bacterial & fungal counts. | CO:1 Students would know the methods of enumerati on of bacteria of water, potability of water and air their |



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| | | | standards of bacterial & fungal counts. | | applicatio n. |
|----------|---------------|--|--|---|--|
| T.Y.BSc. | MICR O3501 | (Theory) Medical Microbiol ogy-I | Epidemio logy: b. Disease distributio n based on time, place and person | | CO:1 Build up progressiv e and successful career CO:2 Apply knowledg e of various methods to control diseases |
| T.Y.BSc. | MICR O3502 | (Theory) Genetics and Molecular Biology- I | | DNA damage and Repair mechanisms and Bacteriophage growth kinetics Chapter 5: DNA damage and Repair mechanisms | CO:1 Understan d the genome organizati on in prokaryoti c cell and eukaryotic cell CO:2 Learn the molecular mechanis m involved |



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| | | | | in DNA |
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| | | | | replicatio |
| | | | | n. |

| T.Y.BS | MICRO3 | (Theory) | | Enzyme | CO:1 |
|----------------|--------|------------------------|--|-------------------|----------------|
| Г. Г. Б. с. | 503 | (Theory) Enzymology | | assays and | Students will |
| <i>C</i> . | 303 | Elizymology | | | learn about |
| | | | | Principles and | |
| | | | | | structure and |
| | | | | Methods of | |
| | | | | Enzyme | Enzymes. |
| | | | | purification. | CO:2 |
| | | | | i. | Students will |
| | | | | Spectrophot | show |
| | | | | ometric | experience |
| | | | | methods ii. | with |
| | | | | Spectrofluro | Purification, |
| | | | | metric | handling and |
| | | | | methods iii. | characterizati |
| | | | | Radioisotop | on of proteins |
| | | | | e assay. | |
| T.Y.BS | MICRO3 | (Theory) | | Adaptive / | CO:1 |
| с. | 504 | Immunology | | Acquired | Theoretical |
| | | -I | | Immunity | understandin |
| | | | | (Third line | g of basic |
| | | | | of defense): | immunologic |
| | | | | 1. Humoral | al processes |
| | | | | Immune | CO :2 |
| | | | | Response a. | Each student |
| | | | | Primary and | would be able |
| | | | | secondary | to understand |
| | | | | response | immune |
| | | | | kinetics, | mechanism of |
| | | | | significance | our body. |
| | | | | in | |
| | | | | vaccination | |
| | | | | programs b. | |
| | | | | Antigen | |
| | | | | 0 | |
| | | | | processing | |



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| | | | | and presentation (MHC class I and class II 3 6 restriction pathways), activation and differentiati on of B- cells | |
|--------------|---------------|---|--|--|--|
| T.Y.BS c. | MICRO3 505 | Theory Fermentatio n Technology- I | Unit 3: Sterilizatio n of Medium a. Methods of industrial sterilizatio n b. Batch sterilizatio n and Continuous sterilizatio n | Unit 3: Sterilization of Medium a. Methods of industrial sterilization b. Batch sterilization and Continuous sterilization | CO:1 Theoretical understandin g of principles and basic protocols of industrial processes. CO:2 Laboratory exercises shall help the students to directly work in different divisions of industries. |
| T.Y.BS c. | MICRO3 506 | (Theory) Food And Dairy Microbiolog y | Preservatio n of milk by pasteurizati on and its storage: • Methods of Pasteurizat | Preservation of milk by pasteurizati on and its storage: • Methods of Pasteurizati on – LTH, | CO:1 Students will learn about various methods regarding milk and milk product as |



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| प्रदेशका प्रमुखेला सामाधिक अध्यक्ष प्रमुखेला सामाधिक महाविद्यालय, बारायती | ।। सिध्दिरनेकान्तात्।। Anekant Education Society's TULJARAM CHATURCHAND COLLEGE of Arts, Science and Commerce, Baramati - 413102. | | | | |

| | | | ion – LTH, HTST, UHT • Storage specificatio ns after pasteurizati on • Phosphatas e test and its significanc | HTST, UHT • Storage specificatio ns after pasteurizati on • Phosphatase test and its significanc | well as food sanitation and regulation CO:2 Students will learn the concepts of applied microbiology |
|--------------|---------------|---|---|---|---|
| T.Y.BS c. | MICRO3 507 | (Practical Course I) Applied Microbiolog y - I | a. Tests for Milk and Dairy products i. Phosphatas e test ii. MBRT test iii. Test for mastitis iv. Milk fat estimation v. Standard Plate Count vi. Direct Microscopi c Count/ Somatic cell count vii. Spray drying of milk (Demonstr ation) | a. Tests for Milk and Dairy products i. Phosphatase test ii. MBRT test iii. Test for mastitis iv. Milk fat estimation v. Standard Plate Count vi. Direct Microscopic Count/ Somatic cell count vii. Spray drying of milk (Demonstrat ion) | CO:1 To help students build-up a progressive and successful career |
| T.Y.BS c. | MICRO3 508 | (Practical Course II) | Clinical Biochemist ry - | Clinical Biochemistr y - | CO:1 Students will use current |



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| T.Y.BS | MICRO3 | Biochemistr y (Practical | Estimation s of: blood sugar, blood urea, serum cholesterol, serum proteins and albumin. Physical, | Estimations of: blood sugar, blood urea, serum cholesterol, serum proteins and albumin. | biochemical and molecular techniques to plan and carry out experiments |
|--------------|---------------|---|--|---|--|
| c. | 509 | Course III) Clinical Microbiolog y | Chemical and Microscopi c examinatio n of Clinical samples – urine, stool, pus | Chemical and Microscopic examination of Clinical samples – urine, stool, pus | This course provides learning opportunities in medical microbiology |
| T.Y.BS c. | MICRO3 601 | (Theory) Medical Microbiolog y-II | Unit 1. Introductio n to Chemother apy: a. Desirable parameters of good chemother apeutic agent (Selective toxicity, Bioavailibi lity of Drug, MIC, MBC, LD- | Unit 1. Introduction to Chemothera py: a. Desirable parameters of good chemothera peutic agent (Selective toxicity, Bioavailibili ty of Drug, MIC, MBC, LD-50 value) b. | CO:1 Build up progressive and successful career. CO:2 Apply the knowledge to identify and diagnose pathogenic microorganis ms CO:3 Understands different |



| equivalente targetar equivalente targetar equivalente targetar minfolizaria, arrando M.Sc. Ph.D. PRINCIPAL | ।। सिध्दिरनेकान्तात्।। Anekant Education Society's TULJARAM CHATURCHAND COLLEGE of Arts, Science and Commerce, Baramati - 413102. Dist. Pune. Maharashtra, India. Empowered Autonomous Status | | |
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| | | | 50 value) b. Routes of drug administrat ion | Routes of drug administrati on | mechanisms of chemotherape utic agents to control diseases & pathogens |
|--------------|---------------|---|---|---|--|
| T.Y.BS c. | MICRO3 602 | (Theory) Genetics And Molecular Biology- II | | Recombina nt DNA Technology a. Types of restriction enzyme b. Nomenclatu re of restriction enzyme c. Cutting of DNA using restriction enzyme | CO:1 Understand the different mode of gene transfer in prokaryotic cell CO:2 Understand the concept of recombinatio n CO:3 Use the recombinatio n for gene mapping. |
| T.Y.BS c. | MICRO3 603 | (Theory) Metabolism | | Biosynthesi s and Degradation : Unit1: Chemistry, concept of polymerizat ion of Macromole cules: i. Polysacchar ides. | CO:1 Students will learn about Structure and function of cell membrane CO:2 To understand function of specific |



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| | | | (Starch, Glycogen) ii. Lipids(Fatty acids, triglycerides and phospholipi ds | anabolic and catabolic pathways |
|--------------|---------------|--------------------------------|--|--|
| T.Y.BS c. | MICRO3 604 | (Theory) Immunology – II | Unit1:Antigen- AntibodyInteractionsPrinciples ofinteractions:Antibody affinity and avidity, ratioaffinity and avidity, ratioantigen antigen antibody, lattice hypothesis and two stage theory, antigen- antibody reaction kinetics (dialysis equilibrium experiment) | CO:1 Theoretical understandin g of basic immunologic al processes. CO:2 Each student would be able to understand immune mechanism of our body. |
| T.Y.BS | MICRO3 605 | (Theory) Fermentatio | ses of | CO:1 Theoretical |
| с. | 003 | n | following secondary metabolites | understandin g of |





| | | Technology- II | | and their large scale production (with respect to microbial producers, production process & recovery, and flowsheet): a. Ethanol b. Alcoholic beverages (Beer & Wine) c. Antibiotics (Penicillin & Streptomyci n) | principles and basic protocols of large-scale industrial production processes. CO:2 Laboratory exercises shall help the students to directly work in different divisions |
|--------------|---------------|--|---|--|---|
| T.Y.BS c. | MICRO3 606 | (Theory) Agricultural And Environment al Microbiolog y | UNIT 1. Plant growth improveme nt with respect to: a. Disease resistance b. Environme ntal tolerance | | CO:1 Acquaintance about plants mechanism for disease resistance will improve. CO:2 Understandin g different techniques in agriculture to control diseases in plant. |



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| T.Y.BS | MICRO3 607 | (Practical Course IV) | Enzyme Purificatio | | | CO:1 Students will |
|----------|---------------|--------------------------|-----------------------|--|---------------------|-----------------------|
| с. | 007 | Biochemistr | n: b. i. | | | learn about |
| | | y and | Precipitatio | | | different |
| | | Molecular | n of | | | techniques in |
| | | Biology | amylase | | | Molecular |
| | | Diology | from | | | biology & |
| | | | fermentatio | | | Biochemistry |
| | | | n broth | | | j |
| T.Y.BS | MICRO3 | (Practical | Study of | | Study of | CO:1 |
| с. | 608 | Course V) | permanent | | permanent | Students will |
| | | Hematology | slides of | | slides of | learn about |
| | | and | following | | following | different |
| | | Diagnostic | microbial | | microbial | techniques in |
| | | Immunology | pathogens: | | pathogens: | Hematology |
| | | | a. | | a. | and |
| | | | Entamoeba | | Entamoeba | Diagnostic |
| | | | histolytica | | histolytica | Immunology |
| | | | b. Giardia | | b. Giardia | |
| | | | spp. c. | | spp. c. | |
| | | | Plasmodiu | | Plasmodium | |
| | | | m spp. d. | | spp. d. | |
| | | | Mycobacte | | Mycobacter | |
| | | | rium | | ium (tubaraulasi | |
| | | | (tuberculos is and | | (tuberculosi | |
| | | | is and leprae) | | s and leprae) | |
| M.SC. I | PSMB11 | Microbial | iepiae) | | UNIT 3: | CO:1 |
| MI.SC. I | 1 | Systematics | | | Exploratio | Acquire basic |
| | 1 | and | | | n of Un- | skills on |
| | | Diversity | | | culturable | bioinformatic |
| | | | | | bacteriaMet | s tools to |
| | | | | | hods of | study the |
| | | | | | extracting | taxonomy |
| | | | | | total | CO:2 |
| | | | | | bacterial | Introduce the |
| | | | | | DNA from a | concepts of |
| | | | | | habitat and | application |



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| प्रकार प्रयोग वीलाको प्रतिविद्यालय, पारामती Prof. Dr. Avinash S. Jagtap M.Sc. Ph.D. PRINCIPAL | TULJARAM C of Arts, Science | CHATURCHAND COLLEGE and Commerce, Baramati - 413102. Dist. Pune. Maharashtra, India. powered Autonomous Status |
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| | | | | metagenom | and research |
|---|--------|--------------|---------------|-----------------|---------------|
| | | | | e analysis. | in |
| | | | | Approaches | Microbiology |
| | | | | to identify | |
| | | | | Culture - | |
| | | | | NGS (Next | |
| | | | | generation | |
| | | | | Sequence) | |
| Ι | PSMB11 | Quantitative | Importance | Importance | CO:1 |
| | 2 | Biology | of statistics | of statistics | Students |
| | | | in Biology | in Biology • | should be |
| | | | • Samples | Samples | able to apply |
| | | | and | and | descriptive |
| | | | Population | Population • | and |
| | | | • Types of | Types of | inferential |
| | | | data • | data • | statistics on |
| | | | Random | Random | the data |
| | | | sampling | sampling | collected |
| | | | methods | methods | during |
| | | | and | and | research |
| | | | sampling | sampling | work. |
| | | | errors • | errors • | |
| | | | Scales and | Scales and | |
| | | | Variables • | Variables • | |
| | | | Collection | Collection | |
| | | | and | and | |
| | | | organizatio | organization | |
| | | | n of data | of data | |
| | PSMB11 | Biochemistr | | UNIT 3 : | CO:1 |
| | 3 | У | | Protein | Students will |
| | | | | Chemistry | be able to |
| | | | | Tertiary and | demonstrate |
| | | | | Quaternary | an |
| | | | | structures of | understandin |
| | | | | proteins, | g of |
| | | | | (Myoglobin | fundamental |
| | | | | & | biochemical |
| | | | | | principles, |



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| | | | Hemoglobin) | metabolic pathways and the regulation of biochemical processes |
|-------------|--------------|--|--|--|
| PSMB11 4 | Cell Biology | | Cell signalling in eukaryotic systems Introduction of cell signalling and, importance of cell signalling • Mode of signalling- autocrine, paracrine, endocrine, juxtacrine signalling, Receptor: 1) Nuclear receptor; 2) Cell surface receptor: Ion channel receptor G protein coupled receptor | CO:1 Use and apply those facts, concepts, and principles appropriately, even in situations that you have not previously encountered. |



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| PSMB11 | Practical | 1)Isolation | CO:1 |
|--------|--------------|-------------------|------------------------|
| 5 | Course: | of bacteria | Students will |
| • | Microbial | from | learn |
| | Systematics | natural | different |
| | | samples. | isolation |
| | | 2) Isolation | techniques |
| | | of fungi | used for |
| | | from | isolation of |
| | | natural | organisms |
| | | samples. | from their |
| | | 3)Isolation | natural |
| | | of | habitat. |
| | | extremophi | naonat. |
| | | les from | |
| | | natural | |
| | | samples. | |
| PSMB11 | Practical | Good Good | CO:1 |
| 6 | Course: Cell | laboratory | Students |
| 0 | biology and | practices | should be |
| | Biochemistr | and cell | |
| | | biology | able to apply basic |
| | У | Good | principles of |
| | | | |
| | | laboratory | chemistry to |
| | | practices: | biological |
| | | Laboratory | system |
| | | safety, hazard | |
| | | from | |
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| | | chemicals, | |
| | | handling of | |
| | | chemicals, | |
| | | disposal of | |
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| | | recording | |
| | | of | |
| | | scientific | |



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| | | | Calibration | | | | |
| | | | and | | | | |
| | | | validation | | | | |
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| | | | meter, | | | | |
| | | | spectropho | | | | |
| | | | tometer). • | | | | |
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| | | | SOP for the | | | | |
| | | | instrument | | | | |
| | _ ~ ~ | | | | | | |
| II | PSMB12 | Virology | | | | Replication | CO:1 |
| II | PSMB12 1 | Virology | | | | Replication of viruses • | CO:1 Student will |
| II | | Virology | | | | | |
| п | | Virology | | | | of viruses • Mechanism | Student will understand |
| П | | Virology | | | | of viruses • Mechanism of virus | Student will understand principles of |
| Π | | Virology | | | | of viruses • Mechanism of virus attachment • | Student will understand principles of virus |
| Ш | | Virology | | | | of viruses • Mechanism of virus attachment • Entry into | Student will understand principles of |
| Ш | | Virology | | | | of viruses • Mechanism of virus attachment • Entry into host cell • | Student will understand principles of virus |
| Π | | Virology | | | | of viruses • Mechanism of virus attachment • Entry into host cell • Uncoating | Student will understand principles of virus |
| Π | | Virology | | | | of viruses • Mechanism of virus attachment • Entry into host cell • Uncoating of viral | Student will understand principles of virus |
| Π | | Virology | | | | of viruses • Mechanism of virus attachment • Entry into host cell • Uncoating | Student will understand principles of virus |
| Π | | Virology | | | | of viruses • Mechanism of virus attachment • Entry into host cell • Uncoating of viral | Student will understand principles of virus |
| Π | | Virology | | | | of viruses • Mechanism of virus attachment • Entry into host cell • Uncoating of viral genome • Transcriptio | Student will understand principles of virus |
| Π | | Virology | | | | of viruses • Mechanism of virus attachment • Entry into host cell • Uncoating of viral genome • Transcriptio n stratergies | Student will understand principles of virus |
| Π | | Virology | | | | of viruses • Mechanism of virus attachment • Entry into host cell • Uncoating of viral genome • Transcriptio n stratergies for RNA | Student will understand principles of virus |
| Π | | Virology | | | | of viruses • Mechanism of virus attachment • Entry into host cell • Uncoating of viral genome • Transcriptio n stratergies for RNA genome & | Student will understand principles of virus |
| Π | | Virology | | | | of viruses • Mechanism of virus attachment • Entry into host cell • Uncoating of viral genome • Transcriptio n stratergies for RNA genome & DNA | Student will understand principles of virus |
| Π | | Virology | | | | of viruses • Mechanism of virus attachment • Entry into host cell • Uncoating of viral genome • Transcriptio n stratergies for RNA genome & DNA genome • | Student will understand principles of virus |
| Π | | Virology | | | | of viruses • Mechanism of virus attachment • Entry into host cell • Uncoating of viral genome • Transcriptio n stratergies for RNA genome & DNA genome • Genome | Student will understand principles of virus |
| Π | | Virology | | | | of viruses • Mechanism of virus attachment • Entry into host cell • Uncoating of viral genome • Transcriptio n stratergies for RNA genome & DNA genome • | Student will understand principles of virus |



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| PSMB12 2 | Instrumentat ion | 1)Chromat ography Gel filtration chromatogr aphy • Ion- exchange Chromatog raphy • Affinity chromatogr aphy • Gas chromatogr aphy • High Performan ce Liquid Chromatog | replication, DNA replication Chromatogr aphy Gel filtration chromatogr aphy • Ion- exchange Chromatogr aphy • Affinity chromatogr aphy • Gas chromatogr aphy • Gas chromatogr aphy • High Performanc e Liquid Chromatogr aphy 2)Spectrosc | CO:1 The student should be able to apply the knowledge regarding various separation techniques while purifying a biomolecule. |
|-------------|--------------------------|---|---|--|
| | | raphy 2)Spectros copy | ору | |
| PSMB12 3 | Metabolism | Concept of anaerobic respiration • Concept of Assimilatio n and Dissimilati ve metabolis m | Concept of anaerobic respiration • Concept of Assimilatio n and Dissimilativ e metabolism | CO:1 Enrich students' knowledge and train them in the pure microbial sciences |
| PSMB12 4 | Evolution and Ecology | Concept of ecosystem • Trophic | | CO:1 Students will be equipped |



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| | | structure of ecosystem • Types of ecosystems | | to understand the evolutionary background and its importance. |
|-------------|---|---|---|--|
| PSMB12 5 | Practical Course: Biophysics & Virology | | Qualitative and quantitative detection of bacteriopha ge • Animal virus titration by Hemaggluti nation inhibition test | CO:1 Students will learn process of gel filtration chromatograp hy CO:2 Students will learn and practice different methods used for isolation of viruses |
| PSMB12 6 | Practical Course: Enzymology & Microbial Metabolism | Plant Growth Promoting Rhizobacte ria | | CO:1 Students will able to Understand kinetics of enzymes CO:2 Students will learn to isolate Nitrogen fixers and detect secondary metabolites |



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| | CCPSM B121 | Research Methodolog y | Philosophi cal foundation of research Understand ing research publication s | | | CO:1 Students will able to Understand philosophy and ethics of research CO:2 Students should be able to write research proposal. |
|-------------|---------------|-----------------------------|---|--|---|--|
| M.SC. II | MICRO5 301 | Immunology | | | In vitro systems Quantificati on of cytokines (ELISPOT assay), functional assays for phagocytes and cytokines (cytotoxicit y and growth assays) • In vivo systems – Experiment al animals in immunolog y research (Inbred animal strains, | CO:1 Students will be able to describe immunologic al response and how it is triggered and regulated. |



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| | | | Knockout mice, transgenic animals, Knock in technology) , Animal models for autoimmuni ty and AIDS. | |
|------------|---------------------|--|---|---|
| MIC 302 | olecular ology I | | Tools in molecular biology Activity gel assay, ChIP,, Designing probe, Detection of DNA binding protiens, DMS foot printing, DMS foot printing, DNA helicase assay, Epitope tagging, Sequence tagged sites, Filter binding assay, Protein foot printing, | CO:1 tudents will understand principle and techniques of molecular biology. |



| त्रिकासम् स्वित्रजाराम भवर्थव मत्ताविद्यालय, मयतस्त्र Prof. Dr. Avinash S. Jagtap M.Sc. Ph.D. PRINCIPAL | TULJARAM C of Arts, Science | ।। सिध्दिरनेकान्तात्।। nekant Education Society's CHATURCHAND COLLEGE and Commerce, Baramati - 413102. Dist. Pune. Maharashtra, India. powered Autonomous Status |
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| MICRO5 303 | Industrial Waste Water Treatment | Pre- treatment & Primary treatment process (Unit Processes) Flow equalizatio n screening • Flocculatio n • Flotation •Granular medium filtration | | | CO:1 Students will understand waste water treatment processes of different industries. |
|---------------|---|---|--|--|---|
| MICRO5 304 | Biophysical Techniques | | | Tools of Bioinformat ics (FASTA, BLAST, BLAT), databases (GENBAN K, PDB, OMIM) and software (RASMOL, Ligand Explorer). | CO:1 To learn different techniques of biophysics. |
| MICRO5 305 | Practical Course: Practical course based on | Antigen- Antibody Interaction s Agglutinati on | | Antigen- Antibody Interactions Agglutinati on techniques: | CO:1 Students will learn different CLSI guidelines |



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| | Immunology , Pharmaceuti cal Microbiolog y and Industrial waste water treatment | techniques: Titer determinati on of isoantibodi es to human blood group antig ens | | Titer determinati on of isoantibodie s to human blood group antigens | CO:2 Students will learn different parameters to estimate pollution load |
|----------|--|---|--|---|---|
| MI 30 | Practical Course: Practical course based on Molecular Biology (I and II) and Microbial Technology | Laboratory scale production and media optimizatio n for exopolysac charide / bioemulsifi er production. | | Laboratory scale production and media optimizatio n for exopolysacc haride / bioemulsifie r production. | CO:1 Students will learn immobilizatio n testing parameters. CO:2 Students will learn gene annotation. |
| M1 40 | Pharmaceuti cal Microbiolog y | Drug Discovery: I. Conventio nal Process Bio- prospectin g (Medicinal Chemistry) - Extraction and purificatio n principles, Purificatio | | | CO:1 Students will understand drug discovery and development. |



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|---|---------------|-------------------------|---|--|---|---|
| | | | n and characteriz ation of bioactive molecules from natural sources | | | |
| | MICRO5 402 | Molecular Biology II | Genetically modified Microbes, plants and animals Genetically modified organisms- social and ethical issues • Applicatio ns in medicine – prevention, early detection and cure of diseases • Gene augmentati on, gene therapy | | Genetically modified Microbes, plants and animals • Genetically modified organisms- social and ethical issues • Application s in medicine – prevention, early detection and cure of diseases • Gene augmentatio n, gene therapy | CO:1 Students will understand issues related to GMOs and their application. |
| | MICRO5 403 | Microbial Technology | : Bioreactor Design Designing of bioreactors - Design | | : Bioreactor Design Designing of bioreactors - Design aspects | CO:1 Students will learn downstream process of different |



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| MICDO5 | Madical | aspects CSTRs: The dimensiona l ratios of the outer shell, and the operational aspects such as working volume and impellers | CSTRs: The dimensional ratios of the outer shell, and the operational aspects such as working volume and impellers | fermented products. |
|---------------|-----------------------------|--|---|---|
| MICRO5 404 | Medical Microbiolog y | Clinical Microbiolo gy Epidemiol ogical and investigati onal approaches for emerging infectious diseases: | Epidemiolo gical and investigatio nal approaches for emerging infectious diseases: | CO:1 Students will able to learn multidrug resistance in bacterial pathogens. |





STATISTICS

| Progr | Cou rse | Cours | Topic in the Syllabus Which has relevance to developmental needs | | | PO's, PSO's and CO's | |
|--------------------------------|-----------------|---|--|--|--|--|---|
| amme | Cod e | e Title | Loc al | National | Regional | Global | 10 \$,150 \$ and CO \$ |
| B.Sc. Statist ics, UG | USS T12 1 | Descri ptive Statist ics – II | Dem ogra phy, Life Tabl e | Demogra phy, Life Table | Demogra phy, Life Table | Demogra phy, Life Table | CO1: Applications of demography and life table in the field of insurance, Actuarial Science, government etc. PO1: Disciplinary Knowledge: Demonstrate comprehensive knowledge of the disciplines that form a part of a graduate programme. Execute strong theoretical and practical understanding generated from the specific graduate programme in the area of work. |
| B.Sc. Statist ics, UG | USS T23 1 | Statist ical Techn iques – I | Inde x Num ber, Tim e Seri es | Index Number, Time Series | Index Number, Time Series | Index Number, Time Series | CO1:Applications of index numbers and time series |
| B.Sc. Statist ics, UG | USS T24 1 | Statist ical Techn iques – II | Regr essio n, SPC and Que uing | Regressi on, SPC and Queuing Model | Regressi on, SPC and Queuing Model | Regressi on, SPC and Queuing Model | CO1: Learn Meaning and purpose of SPC. CO2: Construct Control charts for Attributes, variables. CO3:Revise control limits whenever necessary. |



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| PRINCIPAL | | | | | | |
| Prof. Dr. Avinash S. Jagtap | Dist. Pune. Maharashtra, India. | | | | | |
| तुळजारामं चतुरचेव महाविद्यालय, बारामती | of Arts, Science and Commerce, Baramati - 413102. | | | | | |
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| | | | Mod el | | | | CO4: Apply M/M/1:FIFO Queuing model. |
|--------------------------------|------------------|---|--|---|---|---|--|
| B.Sc. Statist ics, UG | USS T24 2 | Sampl ing Distri bution s and Testin g of Hypot hesis | Tesi ng of Hyp othe sis | Tesing of Hypothe sis | Tesing of Hypothe sis | Tesing of Hypothe sis | CO1:Use appropriate tests in real life situations |
| B.Sc. Statist ics, UG | STA T35 02 | Statist ical Infere nce- I | Esti mati on and its prop ertie s | Estimati on and its propertie s | Estimati on and its propertie s | Estimati on and its propertie s | CO1:Students will possess skills concerning various methods of estimation. |
| B.Sc. Statist ics, UG | STA T35 03 | Sampl ing Metho ds | Sam plin g Met hods | Samplin g Methods | Samplin g Methods | Samplin g Methods | CO1: Identify and recognize the appropriate sampling method in various situations. |
| B.Sc. Statist ics, UG | STA T35 04 | Desig n of Exper iment s | Vari ous expe rime ntal desi gns | Various experime ntal designs | Various experime ntal designs | Various experime ntal designs | CO1:Students will be able to understand basic principles and various terms of Design of Experiments and analyze the data of various experimental design. PO1: Critical Thinking and Problem solving: Exhibit the skills of analysis, |



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| | | inference, interpret | tation | | |

| | | | | | | | and problem-solving by observing the situation closely and design the solutions. |
|--------------------------------|-------------------------|--|---|--|--|--|--|
| B.Sc. Statist ics, UG | STA T35 06(B) | Biosta tistics | Epid emio logy, Clini cal trials , Bioe quiv alen ce and bio- avail abili ty | Epidemi ology, Clinical trials, Bioequiv alence and bio- availabili ty | Epidemi ology, Clinical trials, Bioequiv alence and bio- availabili ty | Epidemi ology, Clinical trials, Bioequiv alence and bio- availabili ty | CO1:Identify epidemic events in real life situations, designs used in clinical trials, |
| B.Sc. Statist ics, UG | STA T36 01 | Introd uction to Regre ssion Analy sis | Vari ous regre ssio n mod els | Various regressio n models | Various regressio n models | Various regressio n models | CO1:Able to apply various regression models in real life problems PO1: Research-related skills and Scientific temper : Develop the working knowledge and applications of instrumentation and laboratory techniques. Able to apply skills to design and conduct independent experiments, interpret, establish |



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| | | | | | | | hypothesis and inquisitiveness towards research. |
|--------------------------------|------------------|--|---|--|--|--|---|
| B.Sc. Statist ics, UG | STA T36 02 | Statist ical Infere nce- II | Para metr ic and Non para metr ic test | Parametr ic and Nonpara metric test | Parametr ic and Nonpara metric test | Parametr ic and Nonpara metric test | CO1:Use appropriate tests in real life situations |
| B.Sc. Statist ics, UG | STA T36 03 | Statist ical Qualit y Contr ol and Reliab ility | Stati stica l Qual ity Cont rol and Reli abili ty | Statistica l Quality Control and Reliabilit y | Statistica l Quality Control and Reliabilit y | Statistica l Quality Control and Reliabilit y | CO1:Students should be able to: construct appropriate control charts in online manufacturing process. Compute reliability and explain the structural properties of coherent system |
| B.Sc. Statist ics, UG | STA T36 04 | Opera tions Resea rch | LPP, TP, AP, CP M, PER T, Gam e The ory | LPP, TP, AP, CPM, PERT, Game Theory | LPP, TP, AP, CPM, PERT, Game Theory | LPP, TP, AP, CPM, PERT, Game Theory | CO1:Students should be able to apply appropriate optimization techniques in real life situations. PO1: Environment and Sustainability: Understand the impact of the scientific solutions in societal and environmental contexts and demonstrate the knowledge |



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|--------------------------------|--|---------------------------------|--|--|--|--|---|
| B.Sc. Statist ics, UG | STA T36 06(B) | Actua rial Statist ics | Insu ranc e Busi ness, Feas ibilit y of Insu ranc e Busi ness, Surv ival Distr ibuti on and Mod els for Life Tabl es | Insuranc e Business, Feasibilit y of Insuranc e Business, Survival Distribut ion and Models for Life Tables | Insuranc e Business, Feasibilit y of Insuranc e Business, Survival Distribut ion and Models for Life Tables | Insuranc e Business, Feasibilit y of Insuranc e Business, Survival Distribut ion and Models for Life Tables | CO1:Identify and analyze consequences of events involving risk and uncertainty |
| M.Sc. Statist ics, PG | PSS T11 4 | Sampl ing Theor y | Vari ous sam plin g Tech niqu es, | Various sampling Techniqu es, and populatio n paramete r | Various sampling Techniqu es, and populatio n paramete r | Various sampling Techniqu es, and populatio n paramete r | CO1:Identify and recognize the appropriate sampling Techniques in various situations. PO1: Disciplinary Knowledge: Demonstrate |



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| | | | and popu latio n para mete r esti mati on | estimatio n | estimatio n | estimatio n | comprehensive knowledge of the discipline that forms a part of a postgraduate programme. Execute strong theoretical and practical understanding generated from the specific programme in the area of work. |
|--------------------------------|-----------------|--------------------------------------|---|--|---|---|---|
| M.Sc. Statist ics, PG | PSS T12 3 | Multi variat e Analy sis | PCA , Clus ter Anal ysis, Disc rimi nant Anal ysis, Can onic al Corr elati on | PCA, Cluster Analysis, Discrimi nant Analysis, Canonica 1 Correlati on, Factor Analysis | PCA, Cluster Analysis, Discrimi nant Analysis, Canonica 1 Correlati on | PCA, Cluster Analysis, Discrimi nant Analysis, Canonica 1 Correlati on | CO1:Apply suitable tools for exploratory data analysis, dimension reduction, and classification to formulate and solve real-life problems |
| M.Sc. Statist ics, PG | PSS T12 4 | Regre ssion Analy sis | Vari ous regre ssio n mod els and mod el adeq | Various regressio n models and model adequacy , multicoll inearity | Various regressio n models and model adequacy , Multicoll inearity | Various regressio n models and model adequacy , Multicoll inearity | CO1:Able to apply various regression models in real life problems. PO1: Trans-disciplinary knowledge: Create new conceptual, theoretical and methodological understanding that |



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| | | | uacy , mult icoll inear ity | | | | integrates and transcends beyond discipline- specific approaches to address a common problem. |
|--------------------------------|-----------------|--|---|---|---|---|---|
| M.Sc. Statist ics, PG | PSS T23 2 | Desig n and Analy sis of Exper iment s | Vari ous expe rime ntal desi gn, RS M, CC D, Box- Beh nken desi gn | Various experime ntal design, RSM, CCD, Box- Behnken design | Various experime ntal design, RSM, CCD, Box- Behnken design | Various experime ntal design, RSM, CCD, Box- Behnken design | CO1:Students will be able to apply Factorial design, fractional factorial design, confounding in real life problems PO1: Critical Thinking and Problem solving: Exhibit the skill of critical thinking and understand scientific texts and place scientific statements and themes in contexts and also evaluate them in terms of generic conventions. Identify the problem by observing the situation closely, take actions and apply lateral thinking and analytical skills to design the solutions. |
| M.Sc. Statist ics, PG | PSS T23 3 | Time Series Analy sis | AR MA, ARI MA, SAR IMA , AR CH and | ARMA, ARIMA, SARIM A, ARCH and GARCH | ARMA, ARIMA, SARIM A, ARCH and GARCH | ARMA, ARIMA, SARIM A, ARCH and GARCH | CO1:Students will be able to fit and analyze the appropriate time series model for time series data |



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| registerrere, verker | TULJARAM CHATURCHAND COLLEGE | | | | |
| Prof. Dr. Avinash S. Jagtap | of Arts, Science and Commerce, Baramati - 413102. | | | | |
| M.Sc. Ph.D. | Dist. Pune. Maharashtra, India. | | | | |
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|--------------------------------|-------------------------|---|--|--|--|--|--|
| M.Sc. Statist ics, PG | PSS T23 4(A) | Data Minin g | SV M, KN N, Deci sion Tree, Ran dom Fore st, Text Mini ng | SVM, KNN, Decision Tree, Random Forest, Text Mining | SVM, KNN, Decision Tree, Random Forest, Text Mining | SVM, KNN, Decision Tree, Random Forest, Text Mining | CO1:Students will be able to evaluate different models used for data processing PO1: Critical Thinking and Problem solving: Exhibit the skill of critical thinking and understand scientific texts and place scientific statements and themes in contexts and also evaluate them in terms of generic conventions. Identify the problem by observing the situation closely, take actions and apply lateral thinking and analytical skills to design the solutions. |
| M.Sc. Statist ics, PG | STA T53 04(B) | Desig n and Analy sis of Clinic al Trials | Clini cal Trial s, Met a anal ysis | Clinical Trials, Meta analysis | Clinical Trials, Meta analysis | Clinical Trials, Meta analysis | CO1:Demonstrate an understanding of the essential principles of modern bio-statistical methods and statistical software and how to apply them |
| M.Sc. Statist ics, PG | PSS T23 4(C) | Reliab ility Theor y | Coh erent struc tures | Coherent structure s and its | Coherent structure s and its | Coherent structure s and its | CO1:The students will be able to get idea of important lifetime distributions such as for |



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| | | | and its Reli abili ty | Reliabilit y | Reliabilit y | Reliabilit y | exponential, Weibull, gamma and lognormal distributions |
|--------------------------------|-----------------|---|--|--|--|--|--|
| M.Sc. Statist ics, PG | PSS T24 2 | Statist ical Proce ss Contr ol | Vari ous Cont rol Char ts | Various Control Charts | Various Control Charts | Various Control Charts | CO1:Students should be able to demonstrate the ability to design, use, and interpret multivariate control chart, synthetic control chart, non- parametric control chart |
| M.Sc. Statist ics, PG | PSS T24 3 | Survi val Analy sis | Type s of Cens orin g, Life time distr ibuti ons, Test for Exp oneti ality | Types of Censorin g, Life time distributi ons, Test for Exponeti ality | Types of Censorin g, Life time distributi ons, Test for Exponeti ality | Types of Censorin g, Life time distributi ons, Test for Exponeti ality | CO1:Student should be able to compare survival functions of two or more populations |
| M.Sc. Statist ics, PG | PSS T24 6 | Projec t | Use of Stati stica l Tool s in real life situa tions | Use of statistical Tools in real life situation s | Use of statistical Tools in real life situation s | Use of statistical Tools in real life situation s | CO1:Students will be able to the social issues using the project PO1: Research-related skills and Scientific temper : Infer scientific literature, build a sense of enquiry and able to formulate, test, analyse, interpret and establish |



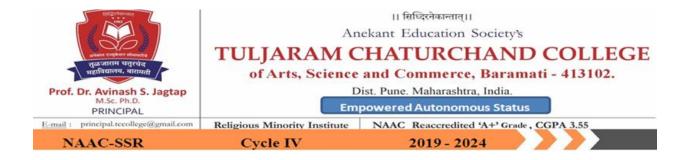
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| | | hypothesis and research questions; and to identify and consult relevant sources to find answers. Plan and write a research paper/project while emphasizing on academics and research ethics, scientific conduct | | | |



and creating awareness

intellectual property rights and issues of plagiarism.

about



ZOOLOGY

| Progra mme | Cours e | Course Title | | he syllabus v the developr | | | POs, PSO's & COs |
|-----------------|-------------|---|-------|---|----------|---|---|
| mme | Code | 11110 | Local | National | Regional | Global | a cos |
| B.Sc. Zoolog | USZL 111 | Animal systemati cs & diversity- I | - | Principles of animal classificat ion | - | Principles of animal classificat ion | PO1. Disciplinary knowledge PSO7.Scient ific knowledge CO1.Acquir es the skills to classify various invertebrate taxa. |
| y | USZL 113 | Zoology Practical I | - | Principles of animal classificat ion | - | Principles of animal classificat ion | PO1. Disciplinary knowledge PSO7.Scient ific knowledge CO1.Acquir es the skills to classify various invertebrate taxa. |



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| USZL 121 | Animal systemati cs & diversity- II Animal systemati cs | - | Principles of animal classificat ion General characters and classificat ion upto class of, | - | Principles of animal classificat ion General characters and classificat ion upto class of, | PSO7.Scient ific knowledge CO1.Acquir es the skills to classify various vertebrate taxa. PO1. Disciplinary knowledge PSO7.Scient ific knowledge |
|-------------|---|---|---|-----------------------------------|---|---|
| 2301 | & diversity- III | - | Arthropod a, Mollusca and Echinoder mata | - | Arthropod a, Mollusca and Echinoder mata | CO1.Acquir es the skills to classify various vertebrate taxa. PO5. Trans |
| ZOO 2302 | Applied Zoology- I | Fisheries and Dairy Science | Fisheries and Dairy Science | Fisheries and Dairy Science | Fisheries and Dairy Science | disciplinary knowledge. PSO10. Communica tion skills. |



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| ZOO 2401 | Animal systemati cs & diversity- IV | - | _ | - | General characters and classificat ion of class Reptilia, Aves and Mammali a | CO4. Entrepreneu rship. PO1. Disciplinary knowledge PSO7.Scient ific knowledge CO1.Acquir es the skills to classify various vertebrate taxa. PO6. |
|-------------|---|--|--|--|---|--|
| ZOO 2402 | Applied Zoology- II | Apicultur e and sericultur e | Apicultur e and sericultur e | Apicultur e and sericultur e | Apicultur e and sericultur e | PSO10. PSO10. Communica tion skills. CO4. Entrepreneu rship. |
| ZOO 3504 | Environ mental Biology & Toxicolo gy | Environ mental Pollution Wildlife Manage ment | Environ mental Pollution Wildlife Manage ment | Environ mental Pollution Wildlife Manage ment | Environ mental Pollution Wildlife Manage ment | PO8. Environmen t and Sustainabilit y. PSO6. Biodiversity |



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| | | | | | | | Understandi ng. PSO7.Conse rvation Awareness CO5. acquire the knowledge |
|----------------------|-------------|-------------------------|---|------------------------------|------------------|-------------------------------|--|
| | | | | | | | of environment al monitoring, role of various bioindicator s |
| M.Sc. Zoolog y | ZOO5 304 | Economi c Zoology | Prawn culture, Pearl Culture, Fish Culture | Vermicul ture industry | Fish Industry | Wild Life conservat ion | PO6 Personal and professional competence. PO8Environ ment and Sustainabilit y. PSO10. Communica tion skills. PSO7.Conse rvation Awareness CO4. Entrepreneu rship. CO5. Contributes |



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DAIRY TECHNOLOGY

| Program me | Cour se | Course Title | Торі | c in the syllabus to the develop | | | POs, PSO's & COs |
|--|-------------------|------------------------------|-----------|---|--------------|--------|---|
| | Code | | Loc al | National | Regio nal | Global | |
| B. Voc. Dairy Technolo gy (UBDT) | UBD T - 111 | Dairy Developmen t | | Dairy development, dairy cooperatives and incentives | | | CO1:They will learn about dairy cooperatives and dairy developmen t in India PO1: They will be able to understand dairy cooperatives and dairy developmen t in India |
| | UBD T - 112 | Dairy Farm Managemen t | | Milking techniques, feed management, dairy farm management | | | PO1:They will know the need and importance of dairy farming and dairy farm managemen t CO1: They will know about milking techniques of dairy cattle's. |



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| | | | | PO1: They will be able to understand dairy farming. |
|-------------------|--------------------|--|--|--|
| UBD T - 113 | Dairy Chemistry | | Protein, carbohydrat es, vitamins, minerals, lipids | CO1: They will understand the chemistry of milk and its products, CO2: They will understand the composition , role of each component and their interactions. PO1:They will understand the chemistry involved in dairy industry |
| UBD | Dairy Farm | | Identificati | CO1: They |
| T – | Managemen | | on of | will study |
| 111 - | t | | different breeds of | common practices |
| 1 | | | cattle, | carried out |
| | | | CMP, | |



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| | | | housing of animals and maintenanc e of animals | at a dairy farm. PO1: They will be able to identify the cattle breeds of dairy animals |
|---------------------------|-------------------------------|--|---|--|
| UBD T – 1111 - 2 | Dairy Chemistry | | Study of basic analysis methods used in dairy industry | CO1: They will learn basic analysis methods used in dairy industry. PO1: They will be able to understand and perform the analysis and testing of milk samples in dairy industries. |
| UBD T – 111 - 3 | Soft Skill Developmen t | | Resume writing, group discussion | CO1: They will know communicat ion skill of English language in corporate world. PO1: They will acquire |



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| | | | communicat ion skill of English language in corporate world. |
|-------------------|--------------------|-----------------------|---|
| UBD T - 121 | Food Technology | | |
| UBD T - 122 | Market Milk | Processing of milk | CO1:They will know the processing and packaging of milk and machineries for milk and Milk products. PO1: They will learn about detailed processing of milk. |



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| UBD T - 123 | Microbiolog y of Milk and Milk Products | Microb growth microbi spoilag | and will study al the role of |
|--------------------------|--|--|----------------------------------|
| UBD T - 121 - 1 | Food Technology | Method food preserv n | will study |
| UBD T – | Microbiolog y of Milk | Differen method | 2 |





| | - and Milk Products | microbial analysis | about the preparation of media, culture, identify micro organisms CO2: They will learn different methods of microbial analysis. PO1:They will know basic microbiolog y laboratory practices and equipment |
|--------------------------|------------------------|--|---|
| UBD T - 121 - 3 | - Application | Study of computer machine and operating system, HTML, MS-Office, Mails, Google Docs, | CO1:They will study the computer machine and operating system, different computer programmes PO1: They will learn the computer machine |



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| BDT - 301 | Dairy Processing Equipment | Study of dairy processing equipment Study of dairy processing equipment | and operating system PO2: They will be able to run the device and different computer applications CO1:They will know about maintenance of Equipments and understand the design equipments PO1: They will learn about Design, working and maintenance of Equipments. |
|--------------|----------------------------------|---|--|
| - 302 | Milk Products | fermentation, study of different fermented milk products | basics of fermentatio ns, starter cultures, and Fermentor and To learn making |



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| | | | | C |
|-------|-----------|--|------------|--------------|
| | | | | process of |
| | | | | various |
| | | | | fermented |
| | | | | products |
| | | | | PO1: They |
| | | | | will learn |
| | | | | about |
| | | | | fermentatio |
| | | | | n and range |
| | | | | of products |
| | | | | made from |
| | | | | fermentatio |
| | | | | n |
| BDT | Nutrition | | Role of | CO1:They |
| - 303 | Science | | nutrients, | will |
| | | | balance | understand |
| | | | diet, BMR | nutrients |
| | | | | and food |
| | | | | component |
| | | | | that supply |
| | | | | nourishment |
| | | | | to the body |
| | | | | and know |
| | | | | about the |
| | | | | functions, |
| | | | | deficiency |
| | | | | and toxicity |
| | | | | of nutrients |
| | | | | PO1: They |
| | | | | will be able |
| | | | | to learn |
| | | | | about |
| | | | | nutrients |
| | | | | and role of |
| | | | | nutrients in |
| | | | | human body |



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| BDT | Dairy | | Study of | CO1:They |
|-------|------------|-----------------|-------------|----------------|
| - 3.1 | Processing | | milk | will know |
| - 3.1 | Equipment | | tankers, | about |
| | Equipment | | cream | maintenance |
| | | | | of |
| | | | separator, | - |
| | | | homogeniz | Equipments and |
| | | | er, and | understand |
| | | | other dairy | |
| | | | equipments | the design |
| | | | | and working |
| | | | | of the |
| | | | | equipments |
| | | | | PO1: They |
| | | | | will learn |
| | | | | about |
| | | | | Design, |
| | | | | working and |
| | | | | maintenance |
| | | | | of |
| | | | | Equipments. |
| BDT | Fermented | Study of | | CO1:They |
| - 3.2 | Milk | preparation of | | will |
| | Products | different types | | understand |
| | | of fermented | | technology |
| | | milk products | | behind |
| | | | | preparation |
| | | | | of |
| | | | | fermented |
| | | | | milk |
| | | | | products |
| | | | | PO1: They |
| | | | | will learn |
| | | | | about |
| | | | | fermentatio |
| | | | | n and range |
| | | | | of products |
| | | | | made from |



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| | | | | fermentatio n |
|--------------|---|---|--|--|
| BDT - 3.3 | Nutrition Science | | Study of different nutrient rich products | CO1:They will learn to prepare different nutrient rich products PO1: They will be able to learn about nutrients and role of nutrients in human body |
| BDT - 401 | Dairy Engineering | | Study of refrigeratio n unit in dairy industry | CO1: They will learn about refrigeration unit in dairy industries. PO1:They will study the different utilities used in dairy plant |
| BDT - 402 | Traditional Indian Dairy Products | Indigenous milk products like paneer, concentrated milks ,etc | | CO1:They will learn the making process of different indigenous milk products |



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| | | | PO1: They will know importance of indigenous milk product and its market demand |
|--------------|---|---|---|
| BDT - 403 | Food Safety, Hygiene and Sanitation | Basic concept of food safety and hygiene, GMP, GHP, HACCP, ISO, TQM | CO1:They will know about Food safety, hygiene and sanitation, CO2:They will learn Industrial waste utilization CO3:They will learn hygiene practices like GMP, GHP, HACCP, etc PO1: They will understand Food safety, hygiene and sanitation |
| BDT - 4.1 | Dairy Engineering | Study of different utilities in | CO1:They will study the different |



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| | | | | dairy industry like refrigerator , cold storage, etc | utilities used in dairy industry PO1: They will study the different utilities used in dairy plant |
|--------------|---|---|--|---|--|
| BDT - 4.2 | Traditional Indian Dairy Products | Study making process different indigenous milk produ | | | CO1:They will learn the making process of different indigenous milk products PO1: They will know importance of indigenous milk product and its market demand |
| BDT - 4.3 | Food Safety, Hygiene and Sanitation | | | Study of CIP system, personal hygiene habits | CO1:They will study the sanitization and hygiene in dairy industries, personal |



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| BDT - 501 | Quality Assurance and Waste Managemen t | | Study of quality and importance of quality, Sensory evaluation, waste manageme nt | hygiene, CIP systems PO1: They will understand Food safety, hygiene and sanitation CO1:They will understand the importance of quality in food production and will learn various methods of analysis in dairy industry PO1: They will understand the importance of quality in food |
|--------------|---|---|---|--|
| BDT - 502 | Fat Rich Milk Products | Study of fat rich products like ghee, butter, cream butter oil, etc | | CO1: They will learn different types of fat rich products |



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|-------|-------------|--|-------------|---------------|
| | | | | made from |
| | | | | milk. |
| | | | | PO1:They |
| | | | | will |
| | | | | understand |
| | | | | the range of |
| | | | | products |
| | | | | made from |
| | | | | milk fat. |
| BDT | Dairy Plant | | Production | CO1:They |
| - 503 | Managemen | | manageme | will learn |
| | t | | nt, plant | key skills in |
| | | | operations, | managing |
| | | | manpower | the |
| | | | planning, | efficiency |
| | | | etc | and man |
| | | | | power of the |
| | | | | dairy plant. |
| | | | | PO1: They |
| | | | | will learn |
| | | | | basics of |
| | | | | managemen |
| | | | | t |
| BDT | Quality | | Study of | CO1:They |
| - 5.1 | Assurance | | COD and | will learn |
| | and Waste | | BOD, | different |
| | Managemen | | microbiolo | analysis |
| | t | | gical | methods |
| | | | analysis of | used for |
| | | | air and | analysis of |
| | | | water, | different |
| | | | acidity of | CO1:quality |
| | | | milk | parameters |
| | | | | of food |
| | | | | PO1: They |
| | | | | will |
| | | | | understand |
| | | | | the |



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| | | | | importance of quality in food production |
|--------------|------------------------------|---|--|--|
| 3DT - 5.2 | Fat Rich Milk Products | Study of making process of different fat rich products | | CO1:They will learn the making procedure and principle of different fat rich milk products. PO1: They will understand the range of products made from milk fat |
| 3DT - 5.3 | Project | project work related to design and development of innovative food product, its quality evaluation, packaging, labeling and shelf life testing | | CO1:They will learn to design and develop innovative food products and work on its packaging, labeling, shelf life, etc PO1: They will learn to design and develop |



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| BD' - 60 | 2 | Study of different dairy products, dried milk products, frozen dairy products | | innovative food product, its quality evaluation, packaging, labeling and shelf life testing CO1:They will understand the different types of milk and their making procedures, Compositio ns and use. PO1: They will learn about developmen t and preparation of different types of milks. |
|-------------|----|---|---|---|
| BD' - 60 | 00 | | Introductio n to different packaging materials and packaging systems | CO1:They will learn about packaging materials used in dairy and food sector |



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| | | 1 1 | ī |
|-------|-------------|-----------------|---------------|
| | | | PO1: They |
| | | | will learn |
| | | | about the |
| | | | packaging |
| | | | technology |
| | | | of dairy |
| | | | products. |
| BDT | Entrepreneu | Entrepreneurs | CO1:They |
| - 603 | rship | hip and | will |
| | Developmen | Market | understand |
| | t | Survey and | the concept |
| | | Opportunity | of |
| | | Identification | entrepreneur |
| | | | ship and |
| | | | learn key |
| | | | skills for |
| | | | being a |
| | | | successful |
| | | | entrepreneur |
| | | | PO1: They |
| | | | will learn |
| | | | key skills |
| | | | for being a |
| | | | successful |
| | | | entrepreneur |
| BDT | Dairy | Study of | CO1: They |
| - 6.1 | Product | different types | will learn to |
| | Developmen | of milks and | prepare and |
| | t | its processing | study |
| | | | different |
| | | | types of |
| | | | milks and |
| | | | it's |
| | | | processing. |
| | | | PO1: They |
| | | | will learn |
| | | | about |
| | | | developmen |



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| | | | | t and |
|-------|------------|----------------|---------------------|----------------------|
| | | | | preparation |
| | | | | of different |
| | | | | types of |
| | | | | milks. |
| BDT | Packaging | | Study of | CO1: They |
| -6.2 | Technology | | identificati | will learn |
| - 0.2 | Teennology | | on and | about types |
| | | | testing of | of |
| | | | different | packaging |
| | | | | materials |
| | | | packaging materials | used in food |
| | | | materials | |
| | | | | and dairy |
| | | | | industry. |
| | | | | CO2: They will learn |
| | | | | |
| | | | | the |
| | | | | packaging |
| | | | | process in |
| | | | | dairy and |
| | | | | food |
| | | | | industry |
| | | | | PO1: They |
| | | | | will learn |
| | | | | about the |
| | | | | packaging |
| | | | | technology |
| | | | | of dairy |
| | | | | products. |
| BDT | In – Plant | Training/Inter | | CO1: They |
| - 6.3 | Training | nship | | will learn |
| | | | | actual |
| | | | | processing, |
| | | | | packaging |
| | | | | in the dairy |
| | | | | industry. |
| | | | | PO1: They |
| | | | | will |



| म्बिटालेक स्वा अक्रमा प्रकृषिय संग्रिकालि सुद्धजाराम पर्युर्थन महाविद्यालय, प्राराम् | ।। सिध्दिरनेकान्तात्।। Anekant Education Society's TULJARAM CHATURCHAND COLLEGE of Arts, Science and Commerce, Baramati - 413102. | | | | |
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| | | | understand the detailed manufacturi |
|--|--|--|---|
| | | | ng, processing and |
| | | | packaging of dairy products. |

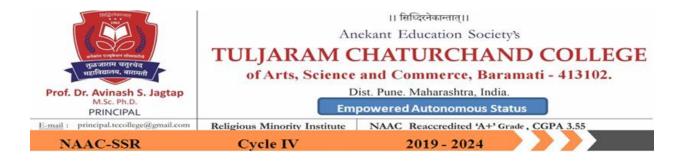




FOOD PROCESSING & POST HARVEST TECHNOLOGY

| Prog ram | Co urs | Cour se | | Topic in the syllabus which has relevance to the developmental needs | | | POs, PSO's & COs |
|---|------------------|--|---|--|---|--|--|
| me | e Co de | Title | Local | Natio nal | Regio nal | Global | |
| B.Vo c. Food Proc essin g & Post Harv est Tech nolo gy (UG) | UB FP- 111 | Princi ples of Food Prese rvatio n | Dehy dratio n, Ferme ntatio n | Canni ng, Pasteu rizatio n, Standa rdizati on, Freezi ng, Chillin g | Dehy dratio n, Ferme ntatio n | Canning, Pasteurizatio n,Standardiz ation, Freezing, Chilling | CO1: Students will have a thorough understanding of various food processing techniques. The students will know the importance of various preservation techniques. PO1: Understand the basic concepts, fundamental principles and experimental findings and the scientific the ories related to food technology, food science and Food technology & engineering and its other fields related to the program. PO6: Operatemoderntools, equipme nt, instruments and laboratory te chniquesto perform the experiments and write the programs in different languages. |
| | UB FP1 21 | Nutrit ion Scien ce | Fitnes s and Sports , Balan ce diet | Nation al Nutriti onal Policy | Fitnes s and Sports ,Bala nce diet | Balance diet, BMR | Students will be able to: CO1: Utilize knowledge from the physical and biological sciences as a basis for understanding the role of food and nutrients in health and disease processes. PO4: Analytical Reasoning |





| and Problem Solving- To |
|---------------------------------|
| enable the students with good |
| scientific and engineering |
| knowledge so as to |
| comprehend, design, and |
| create food products and |
| devices for the food industry |
| and provide solutions for the |
| challenges in the food industry |
| as well as in agriculture. |
| PO1:- Disciplinary |
| Knowledge - Understand the |
| basic concepts, fundamental |
| principles and experimental |
| findings and the scientific the |
| ories related to food |
| technology, food science and |
| Food technology & |
| engineering and its other |
| fields related to the program. |
| |
| CO2: Provide nutrition |
| counselling and education to |
| individuals, groups, and |
| communities throughout the |
| lifespan using a variety of |
| communication strategies. |
| |
| PO12: Lifelong Learning: - |
| Propose novel ideas in |
| explaining the scientific data, |
| facts and figures related to |
| Science and technology. |
| |
| CO3: Evaluate nutrition |
| information based on |
| scientific reasoning for |



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| | | | | | | clinical, community, and food service application. PO4: Analytical Reasoning and Problem Solving- To enable the students with good scientific and engineering knowledge so as to comprehend, design, and create food products and devices for the food industry and provide solutions for the challenges in the food industry as well as in agriculture. |
|----------|---|--|--|---|---|---|
| FP- 7 | Proce ssing of Fruits , Veget ables and Plant ation Crops | Dryin g, utiliza tion of Fruit and Veget able waste | Qualit y Contro 1 in Food Proces sing Indust ry, | utiliza tion of Fruit and Veget able waste | Osmotic dehydration, canning, freezing | CO1: Students will have a thorough understanding of various food processing techniques. PO8: Application of Knowledge: - Develop a scientific outlook and apply the knowledge with respect to food technology. CO2: The students will know the importance of various preservation techniques. PO1: Disciplinary Knowledge - Understand the basic concepts, fundamental principles and experimental findings and the scientific the ories related to food technology, food science and Food technology & engineering and its other fields related to the program. |



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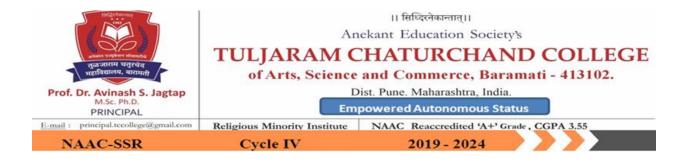
| ED | Dura | M(11) | | N/:11: | D | |
|---------|--------|--------|---|--------|---------------|------------------------------------|
| FP- | Proce | Millin | - | Millin | Processing | CO1: Students will have a |
| 10 | ssing | g of | | g of | of hot serve | thorough understanding the |
| | of | cereal | | cereal | cereals and | unit operations followed for |
| | Cerea | & | | & | ready –to – | raw form to an edible form of |
| | ls, | pulses | | pulses | eat breakfast | cereals and legumes. |
| | Pulse | , | | , | cereals, | PO8: Application of |
| | s and | Extra | | Extra | Flakes, | Knowledge: - Develop a |
| | Oilse | ction | | ction | shreds, | scientific outlook and apply |
| | eds | of oil | | of oil | granules, | the knowledge with respect to |
| | | and | | and | puffed | food technology |
| | | refini | | refini | cereals, | CO2: The students will know |
| | | ng | | ng | sugar coated | the importance of various |
| | | | | | products, | methods to identify any |
| | | | | | popped and | disorder in fresh commodities. |
| | | | | | puffed | PO6: Use of Modern Tools: - |
| | | | | | snacks | Operate modern tools, |
| | | | | | | equipment, instruments and |
| | | | | | | laboratory techniques to |
| | | | | | | perform the experiments and |
| | | | | | | write the programs in different |
| | | | | | | languages. |
| FP- | Baker | - | - | - | preparation | CO1: Students will have a |
| 12 | y and | | | | methods of | thorough understanding the |
| | Confe | | | | bread, cake, | processing and preservation of |
| | ctione | | | | biscuits, | appetizers. |
| | ry | | | | cookies, | PO1: Disciplinary |
| | Tech | | | | pastry, buns, | Knowledge - Understand the |
| | nolog | | | | crackers, | basic concepts, fundamental |
| | y y | | | | types of | - |
| | 5 | | | | quick bread, | findings and the scientific the |
| | | | | | chocolate | ories related to food |
| | | | | | manufacture | technology, food science and |
| | | | | | manuracture | Food technology & |
| | | | | | | engineering and its other |
| | | | | | | fields related to the program. |
| | | | | | | CO2: Students will have a |
| | | | | | | |
| | | | | | | thorough understanding on |
| | | | | | | effect of blending and baking |



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| | FP- 13 | Dairy Tech nolog y | Manu factur ing of Ghee, Milk powd er, Khoa, milk based sweet s | | Manu factur ing of Ghee, Milk powd er, Khoa, milk based sweet s | standardizati on, Homogeniza tion, Pasteurizatio n, Homogenize rs, Bottle and pouch fillers, Milk Chillers, Manufacture of Ice Cream, Cream, Paneer, Butter | on final product of bakery. PO6: Use of Modern Tools:- Operatemoderntools,equipme nt,instrumentsandlaboratoryte chniquesto perform the experiments and write the programs in different languages. CO3: The students will know the various extruded product development. PO7: Research Skills:- Understand how to design, collect, analyze, interpret and evaluate information/data that is relevant to food technology. On completion of the course, students will be able to: CO1: Give a comprehensive view of the composition of milk, its chemical, physical and organoleptic properties that can be applied in technological processing of milk. PO4: Analytical Reasoning and Problem Solving- To enable the students with good scientific and engineering knowledge so as to comprehend, design, and create food products and devices |
|--|-----------|-----------------------------|--|--|--|--|---|
|--|-----------|-----------------------------|--|--|--|--|---|





| | provide solutions for t challenges in the food indust as well as in agriculture. | |
|--|---|------------------------------------|
| | CO2: Explain the producti of milk and pre-treatment milk. | |
| | PO7: Research Skill Understand how to desig collect, analyze, interpret and evaluate information/da that is relevant to fo technology. | gn, ata |
| | CO3: Explain the dai processing technologies. | iry |
| | PO1: Disciplina Knowledge - Understand t basic concepts, fundamen principles and experimental findings and t scientific the ories related food technology, food scien and Food technology engineering and its oth fields related to the program | tal the to to nce & |



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| | | | | | | CO4: Apply methods of analysis for dairy products and relate differences in composition and structure to differences in manufacturing processes. |
|-----|--------------|------------------|------------------|------------------|--------------------------|---|
| | | | | | | PO8: Application of Knowledge:- Develop a scientific out look and apply the knowledge with respect to food technology. |
| | | | | | | CO5: Create a dairy product and evaluate relevant physical properties. |
| | | | | | | PO7: Research Skills:- Understand how to design, collect, analyze, interpret and evaluate information/data that is relevant to food technology. |
| FP- | Food | Qualit | Essent | Qualit | Prevention | On completion of the course, |
| 14 | Quali | у | ial | у | of Food | students will be able to: |
| | ty, | contro | Comm | contro | Adulteration | CO1: Be able to critically |
| | Laws | l | odities |] 1ah ara | Act, Food | evaluate the recent |
| | and Regul | labora tories | Act, Standa | labora tories | Safety Standard | developments in the control of |
| | ations | tories of | Standa rds of | tories of | Standard Authority of | food safety. |
| | anons | comp | Weigh | comp | India | PO3: Critical Thinking :- |
| | | anies, | ts and | anies, | (FSSAI), | Propose novel ideas in |
| | | Qualit | Measu | Qualit | Codex | 1 |



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| X 7 | ros | X 7 | Alimentarius | avalaining the scientific data |
|------------|----------------|------------|----------------|---|
| y | res, Export | y | | explaining the scientific data, |
| contro | Export | contro | , Codex | facts and figures |
| | (Quali | 1 | India, World | related to Science and |
| labora | ty | labora | Health | technology. |
| tories | contro | tories | Organization | |
| of | 1 and | of | , | CO2: Have an integrated view |
| Consu | Inspec | Consu | International | of the issues involved. |
| mer | tion) | mer | Organization | |
| co- | Act, | co- | for | PO5: Sense of Inquiry:- |
| operat | Burea | operat | Standardizati | Curiously ask relevant |
| ives, | u of | ives, | on, Food and | questions for better |
| Privat | Indian | Privat | Agriculture | understanding of |
| e | Standa | e | Organization | fundamental concepts and |
| testin | rds | testin | , Joint | principles, scientific theories |
| g | Act, | g | FAO/WHO | and applications related to the |
| labora | Agmar | labora | Expert | study. |
| tories, | k | tories, | committee | |
| Consu | Gradin | Consu | on food | CO3: Be able to conduct risk |
| mer | g and | mer | additives, | assessments of food safety |
| Guida | Marke | Guida | British Retail | problems including genetic |
| nce | ting | nce | Consortium(| modification. |
| Societ | Act | Societ | BRC) | |
| y | and | y | standard for | PO11: Environment and |
| 5 | Rules | 5 | Foods. | Sustainability:- Develop |
| | Nutriti | | 10000 | various communication skills |
| | onal | | | such as |
| | Labell | | | reading, listening and |
| | ing & | | | |
| | | | | speaking skills to express ideas and views clearly and |
| | Educat | | | • |
| | ion | | | effectively. |
| | act, | | | |
| | Munic | | | CO4: Demonstrate detailed |
| | ipal | | | knowledge of the |





| | | | Labor atories , Food and Drug Admin istratio n, The central Food Testin g Labor atory, Export Inspec tion Counc il Labor atory | | | requirements for compliance with national and international food safety legislation. PO11: Environment and Sustainability:- Develop various communication skills such as reading, listening and speaking skills to express ideas and views clearly and effectively. CO5: Know how to control and maintain a quality management system. PO9: Ethical Awareness- To train students in professional and ethical attitude, effective communication skills, team work skills and |
|-----------|--|--|--|--|---|---|
| | | | atory | | | |
| FP- 15 | Princi ples of Post Harve sts Tech | Harve sting factor s, Matur ity of harve | | Harve sting factor s, Matur ity of harve | Post harvest technology of Cereal, Pulses, Oilseeds, Fruits and Vegetables, | On completion of the course, students will be able to: CO1: Understand technologies of post harvest technology and its role in providing better quality produce to the consumer. |



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| nolog | st, | st, | meat, milk, | |
|-------|--------|--------|-------------|---|
| y | Harve | Harve | fish & Food | PO1: Disciplinary |
| | sting | sting | storage | Knowledge - Understand the |
| | Meth | Meth | systems | basic concepts, fundamental |
| | ods, | ods, | | principles and |
| | Clean | Clean | | experimental findings and the |
| | ing | ing | | scientific the ories related to |
| | and | and | | food technology, food science |
| | Gradi | Gradi | | and |
| | ng, | ng, | | Food technology & |
| | Food | Food | | engineering and its other |
| | storag | storag | | fields related to the program. |
| | e | e | | |
| | syste | syste | | CO2: Understand importance |
| | ms | ms | | prevention of losses. |
| | | | | |
| | | | | PO4: Analytical Reasoning |
| | | | | and Problem Solving- To |
| | | | | enable the students with good |
| | | | | scientific |
| | | | | and engineering knowledge so |
| | | | | as to comprehend, design, and |
| | | | | create food products and |
| | | | | devices |
| | | | | for the food industry and |
| | | | | provide solutions for the |
| | | | | challenges in the food industry as well as in |
| | | | | agriculture. |
| | | | | agriculture. |
| | | | | CO3: Understand utilization |
| | | | | of the produce and methods |
| | | | | for shelf life extension. |
| | | | | |



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| | PO6: Use of Modern Tools:- Operatemoderntools,equipme nt,instrumentsandlaboratoryte chniquesto perform the experiments and write the programs in different languages. |
|--|--|
| | CO4: Understand cold chain management |
| | PO8: Application of Knowledge:- Develop a scientific out look and apply the knowledge with respect to food technology. |
| | CO5: Learn quality control and various standards required for domestic and export market. |
| | PO1: Disciplinary Knowledge - Understand the basic concepts, fundamental principles and experimental findings and the scientific the ories related to food technology, food science and |



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| | | | | | | Food technology & engineering and its other fields related to the program. |
|-----------|---|--|---|--|--|--|
| FP- 17 | Food Safet y, Hygie ne and Sanit ation | Types of hazar ds, Contr ol metho ds using physi cal and chemi cal agents , Waste Dispo sal, Pest and Rode nt Contr ol, Perso nnel | SOPs ,HAC CP, ISO series, TQM, Produ ct labelli ng and Nutriti onal labelli ng | Types of hazar ds, Contr ol metho ds using physi cal and chemi cal and chemi cal and chemi cal agents , Waste Dispo sal, Pest and Rode nt Contr ol, Perso nnel | GHPs ,GMPs, SOPs, HACCP, ISO series, TQM, Product labelling and Nutritional labelling | On completion of the course, students will be able to: CO1: Identify food safety hazards and their control PO3: Critical Thinking :- Propose novel ideas in explaining the scientific data, facts and figures related to Science and technology. CO2: Identify & prevent potential sources of food contamination. PO3: Critical Thinking :- Propose novel ideas in explaining the scientific data, facts and figures related to Science and technology. PO3: Critical Thinking :- Propose novel ideas in explaining the scientific data, facts and figures related to Science and technology. PO3: Critical Thinking :- Propose novel ideas in explaining the scientific data, facts and figures related to Science and technology. PO8: Application of Knowledge:- Develop a scientific out look and apply the knowledge with respect to |
| | | Hygie ne, | | Hygie ne, | | food technology. |



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| Food | Food | CO3: Apply the principles of |
|--------|--------|---|
| Safety | Safety | Hazard Analysis Critical |
| Meas | Meas | Control Points (HACCP). |
| ures | ures | ````` |
| | | PO8: Application of |
| | | Knowledge:- Develop a |
| | | scientific out look and apply |
| | | the knowledge with respect to |
| | | food technology. |
| | | rood teenhology. |
| | | CO4: Recognize the principal |
| | | legal responsibilities of food |
| | | handlers regarding personal |
| | | hygiene. |
| | | nygiene. |
| | | BO4. Analytical Bassoning |
| | | PO4: Analytical Reasoning and Problem Solving- To |
| | | - |
| | | enable the students with good scientific |
| | | |
| | | and engineering knowledge so |
| | | as to comprehend, design, and |
| | | create food products and |
| | | devices |
| | | for the food industry and |
| | | provide solutions for the |
| | | challenges in the food industry |
| | | as well as in |
| | | agriculture. |
| | | |
| | | CO5: Apply a range of food |
| | | quality systems |
| | | |



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| | | | | | | PO8- Application of |
|-----|-------|---|---|---|---------------|---------------------------------|
| | | | | | | Knowledge:- Develop a |
| | | | | | | scientific out look and apply |
| | | | | | | the knowledge with respect to |
| | | | | | | food technology. |
| | | | | | | CO6: Prepare a food safety |
| | | | | | | plan |
| | | | | | | PO3- Critical Thinking :- |
| | | | | | | Propose novel ideas in |
| | | | | | | explaining the scientific data, |
| | | | | | | facts and figures |
| | | | | | | related to |
| | | | | | | Science and technology. |
| FP- | Packa | - | - | - | Vacuum, CA | On completion of the course, |
| 18 | ging | | | | and MA | students will be able to: |
| | Tech | | | | packaging | CO1: Describe the role and |
| | nolog | | | | systems, gas | function of packaging |
| | У | | | | packaging | materials used for a range of |
| | | | | | machine; | consumer food . |
| | | | | | seal and | |
| | | | | | shrink | PO1: Disciplinary |
| | | | | | packaging | Knowledge - Understand the |
| | | | | | machine; | basic concepts, fundamental |
| | | | | | form and fill | principles and |
| | | | | | sealing | experimental findings and the |
| | | | | | machine; | scientific the ories related to |
| | | | | | aseptic | food technology, food science |
| | | | | | packaging | and |
| | | | | | systems; | Food technology & |
| | | | | | bottling | engineering and its other |
| | | | | | machines; | fields related to the program. |



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| | carton making machines | CO2: Design solutions to packaging problems. |
|--|------------------------------|---|
| | | PO7- Research Skills:- Understand how to design, collect, analyze, interpret and evaluate information/data that is relevant to food technology. |
| | | CO3: Measure and evaluate the chemical, physical and mechanical properties of packages and packaging. |
| | | PO7- Research Skills:- Understand how to design, collect, analyze, interpret and evaluate information/data that is relevant to food technology. |
| | | CO4: Explain knowledge of the legal, environmental, quality aspects associated with packaging materials and operations used in the food industry. |
| | | PO1: Disciplinary Knowledge - Understand the |



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| | basic concepts, fundamental principles and experimental findings and the scientific the ories related to food technology, food science and Food technology & engineering and its other fields related to the program. |
|--|---|
|--|---|

| Prog ram me | Cou rse Cod | Cour se Title | Topic in the syllabus which has relevance to the developmental needs | | | POs, PSO's & COs | |
|-------------------|-------------------|---------------------|--|---------|---------|------------------|--------------------------------------|
| | e | | Local | Natio | Regio | Globa | |
| | | | | nal | nal | 1 | |
| M.Vo | PM | Bever | Packa | FSSA | Packa | FSSA | After learning this subject |
| с. | FP1 | ages | ged | Ι | ged | Ι | CO1: Students will be able to |
| Food | 21 | and | drinki | specifi | drinki | specifi | know different types of beverages |
| Proce | | Snack | ng | cation | ng | cation | found in Indian as well as |
| ssing | | Food | water | s for | water | s for | international market. |
| Tech | | Techn | Proces | bevera | Proces | bevera | PO1:- Disciplinary Knowledge - |
| nolog | | ology | sing, | ges | sing, | ges, | Understand the basic concepts, |
| у | | | roaste | | roaste | Techn | fundamental principles and |
| (PG) | | | d, | | d, | ology | experimental findings and the |
| | | | toasted | | toasted | for | scientific the ories related to food |
| | | | , | | , | fruit | technology, food science and |
| | | | puffed | | puffed | and | Food technology & engineering |
| | | | , | | , | vegeta | and its other fields related to the |
| | | | poppe | | poppe | ble | program. |
| | | | d and | | d and | based | CO2: Students will have better |
| | | | flakes | | flakes | snacks | ideas regarding alcoholic and non- |
| | | | Coated | | Coated | , | alcoholic Beverages with water |
| | | | grains- | | grains- | Techn | industry. |



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| | | salted, | | salted, | ology | PO3- Critical Thinking :- Propose |
|-----|-------|---------|---|---------|---------|--|
| | | spiced | | spiced | for | novel ideas in explaining the |
| | | and | | and | coated | scientific data, facts and figures |
| | | sweete | | sweete | nuts, | related to Science and technology. |
| | | ned | | ned | techno | CO3: Students will have |
| | | Flour | | Flour | logy | thorough knowledge of different |
| | | based | | based | for | types of cereal based |
| | | snack- | | snack- | RTE | PO1:- Disciplinary Knowledge - |
| | | batter | | batter | puffed | Understand the basic concepts, |
| | | and | | and | snack | fundamental principles and |
| | | dough | | dough | | experimental findings and the |
| | | based | | based | | scientific the ories related to food |
| | | produc | | produc | | technology, food science and |
| | | ts; | | ts; | | Food technology & engineering |
| | | savour | | savour | | and its other fields related to the |
| | | y and | | y and | | program. |
| | | farsans | | farsans | | CO4: Students will get brief |
| | | ; | | ; | | knowledge of fruits and |
| | | formul | | formul | | vegetables based snacks. |
| | | ated | | ated | | PO8- Application of |
| | | chips | | chips | | Knowledge:- Develop a scientific |
| | | and | | and | | outlook and apply the knowledge |
| | | wafers | | wafers | | with respect to food technology. |
| | | | | | | 1 25 |
| | | papads | | papads | | |
| | | | | | | |
| PM | Food | Food, | - | Food | Toxic | Students should be able to: |
| FP1 | Addit | conta | | conta | ologic | CO1: Uses of additive in food |
| 22 | ives, | minant | | minant | al | material |
| | and | s, | | s, | evalua | PO6- Use of Modern Tools:- |
| | Toxic | types | | types | tion of | Operatemoderntools, equipment, in |
| | ology | of | | of | food | strumentsandlaboratorytechnique |
| | 51085 | food | | food | additi | sto perform the experiments and |
| | | additiv | | additiv | ves | write the programs in different |
| | | es | | es | | languages. |
| | | | | | | CO2: Effects of toxicants in |
| | | | | | | human |
| | | | | | | PO3- Critical Thinking :- Propose |
| | 1 | | | | | 100 Children Hinking. 110pose |



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|-----|-------|---------|---|---------|---------|--|
| | | | | | | novel ideas in explaining the |
| | | | | | | scientific data, facts and figures |
| | | | | | ~ . | related to Science and technology. |
| PM | Food | Biode | - | Biode | Classi | CO1: Students will be able to |
| FP1 | Proce | gradab | | gradab | ficatio | understand major food |
| 23 | ssing | le | | le | n of | preservation and Packaging |
| | and | plastic | | plastic | Therm | techniques and underlying |
| | Packa | s, | | s, | al | principles. |
| | ging | Edible | | Edible | Proces | PO1:- Disciplinary Knowledge - |
| | | gums, | | gums, | ses, | Understand the basic concepts, |
| | | Coatin | | Coatin | freezi | fundamental principles and |
| | | gs | | gs | ng, | experimental findings and the |
| | | | | | Active | scientific the ories related to food |
| | | | | | packa | technology, food science and |
| | | | | | ging, | Food technology & engineering |
| | | | | | Modif | and its other fields related to the |
| | | | | | ied | program. |
| | | | | | atmos | CO2: Students will be able to |
| | | | | | pheric | determine suitable methods of |
| | | | | | packa | processing and Packaging |
| | | | | | ging, | techniques for a chosen food. |
| | | | | | Asepti | PO7- Research Skills:- |
| | | | | | с | Understand how to design, collect, |
| | | | | | packa | analyze, interpret and evaluate |
| | | | | | ging, | information/data that is relevant to |
| | | | | | Gas | food technology. |
| | | | | | packa | CO3: Students will be able to |
| | | | | | ging | understand Novel food processing |
| | | | | | machi | methods like Thermal processing, |
| | | | | | ne, | cold preservation etc. |
| | | | | | Seal | PO3- Critical Thinking: - Propose |
| | | | | | and | novel ideas in explaining the |
| | | | | | shrink | scientific data, facts and figures |
| | | | | | packa | related to Science and technology. |
| | | | | | ging | CO4: Students will be able to |
| | | | | | machi | understand operations involved in |
| | | | | | ne. | packaging Material |
| | | | | | Form | manufacturing |



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| प्रकार प्रयोग वीलार्गने प्रतिविद्यालय, पारामती Prof. Dr. Avinash S. Jagtap M.Sc. Ph.D. PRINCIPAL | TULJARAM C of Arts, Science | CHATURCHAND COLLEGE and Commerce, Baramati - 413102. Dist. Pune. Maharashtra, India. powered Autonomous Status | | | | | |
| ENG22 Descent | ।। सिध्दिरनेकान्तात्।। | | | | | | |

| FPT | Post- | Size | WTO | Size | t of Dairy Produ cts Unit | Food technology & engineering and its other fields related to the program. CO2: The students will able to explain the basics behind milk process technology that would comparatively help to get the knowledge of technical views regarding industrial aspect. PO8- Application of Knowledge:- Develop a scientific out look and apply the knowledge with respect to food technology. CO1: Students will acknowledge |
|------|-------------------------------|---|---|---|--|---|
| -302 | Harve st Techn ology | reducti on proces s, Mass, Energ y balanc e and Heat transfe r, Produc ts and by produc ts of plantat ion crops: cashe w, areca nut, | guidel ines for export of hortic ultural produ ces – COD EX standa rds and export standa rds for major fruits, vegeta bles and planta | reducti on proces s, Mass, Energ y balanc e and Heat transfe r, Produc ts and by produc ts of plantat ion crops: cashe w, areca nut, | operat ions of food proces sing, postha rvest disord ers, pest and diseas es and their manag ement in major hortic ultural crops | the steps and techniques involved in post -harvest practices. PO1:- Disciplinary Knowledge - Understand the basic concepts, fundamental principles and experimental findings and the scientific the ories related to food technology, food science and Food technology & engineering and its other fields related to the program. CO2: The students will able to explain processing and packaging operations. PO6- Use of Modern Tools:- Operatemoderntools, equipment, in struments and laboratory technique sto perform the experiments and write the programs in different languages. |



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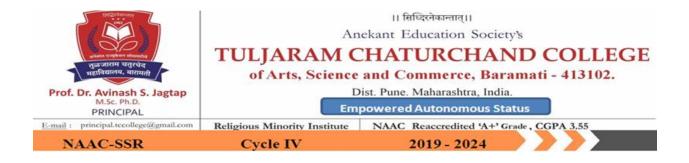
| | | cocon | tion | cocon | | |
|-----|--------|---------------|--------|---------------|--------|--|
| | | ut, | crops. | ut, | | |
| | | ut, Coolin | crops. | ut, Coolin | | |
| | | | | | | |
| | | g traatm | | g traatm | | |
| | | treatm | | treatm | | |
| | | ents | | ents | | |
| | | for | | for | | |
| | | fruits, | | fruits, | | |
| | | vegeta | | vegeta | | |
| | | bles | | bles | | |
| | | and | | and | | |
| | | plantat | | plantat | | |
| | | ion | | ion | | |
| | | crops, | | crops, | | |
| | | Ripeni | | Ripeni | | |
| | | ng | | ng | | |
| | | metho | | metho | | |
| | | ds | | ds | | |
| FPT | Food | Good | HAC | Good | HAC | CO1: Students will understand |
| 303 | Safet | manuf | CP, | manuf | CP, | the concept of quality |
| | y and | acturin | ISO, | acturin | ISO, | management in food processing. |
| | Qualit | g | Codex | g | Codex | PO8- Application of Knowledge:- |
| | У | practic | Alime | practic | Alime | Develop a scientific out look and |
| | Mana | es | ntariu | es | ntariu | apply the knowledge with respect |
| | geme | (GMP) | S | (GMP) | S | to food technology. |
| | nt | | Com | | Com | CO2: The students will able to |
| | | | missio | | missio | explain the degree of standard of |
| | | | n | | n | any processed product. |
| | | | (CAC | | (CAC | PO5- Sense of Inquiry:- Curiously |
| | | |) | |) | ask relevant questions for better |
| | | | | | | understanding of fundamental |
| | | | | | | concepts and principles, scientific |
| | | | | | | theories and applications related to |
| | | | | | | the study. |



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| Prog ram | Co ur | Cour se | Topic in the syllabus which has relevance to the developmental needs | | | POs, PSO's & COs | |
|---|----------------|--|--|--|--|--|--|
| me | se Co de | Title | Local | Natio nal | Regio nal | Global | |
| B.Vo c. Food Proc essin g & Post Harv est Tech nolo gy (UG) | FP -1 | Princi ples of Food Prese rvatio n | Dehy dratio n, Ferme ntatio n | Canni ng, Pasteu rizatio n, Standa rdizati on, Freezi ng, Chillin g | Dehy dratio n, Ferme ntatio n | Canning, Pasteurizatio n,Standardiz ation, Freezing, Chilling | CO1: Students will have a thorough understanding of various food processing techniques. The students will know the importance of various preservation techniques. PO1: Understand the basic concepts, fundamental principles and experimental findings and the scientific the ories related to food technology, food science and Food technology & engineering and its other fields related to the program. PO6: Operatemoderntools, equipme nt, instruments and laboratory te chniquesto perform the experiments and write the programs in different languages. |
| | FP -4 | Nutrit ion Scien ce | Fitnes s and Sports , Balan ce diet | Nation al Nutriti onal Policy | Fitnes s and Sports ,Balan ce diet | Balance diet, BMR | Students will be able to: CO1: Utilize knowledge from the physical and biological sciences as a basis for understanding the role of food and nutrients in health and disease processes. PO4: Analytical Reasoning and Problem Solving- To |





| | | anable the students with and |
|--|--|---|
| | | enable the students with good scientific and engineering |
| | | 8 8 |
| | | knowledge so as to |
| | | comprehend, design, and |
| | | create food products and |
| | | devices for the food industry |
| | | and provide solutions for the |
| | | challenges in the food industry |
| | | as well as in agriculture. |
| | | PO1:- Disciplinary |
| | | Knowledge - Understand the |
| | | basic concepts, fundamental |
| | | principles and experimental |
| | | findings and the scientific the |
| | | ories related to food |
| | | technology, food science and |
| | | Food technology & |
| | | engineering and its other fields |
| | | related to the program. |
| | | CO2: Provide nutrition |
| | | |
| | | counselling and education to |
| | | individuals, groups, and |
| | | communities throughout the |
| | | lifespan using a variety of |
| | | communication strategies. |
| | | DO12. Lifelong Learning: |
| | | PO12: Lifelong Learning: - Propose novel ideas in |
| | | 1 |
| | | explaining the scientific data, |
| | | facts and figures related to |
| | | Science and technology. |
| | | CO3: Evaluate nutrition |
| | | information based on scientific |
| | | |
| | | reasoning for clinical, |



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| | | | | | | community, and food service application. PO4: Analytical Reasoning and Problem Solving- To enable the students with good scientific and engineering knowledge so as to comprehend, design, and create food products and devices for the food industry and provide solutions for the challenges in the food industry as well as in agriculture. |
|----------|---|---|--|--|---|---|
| FP -7 | Proce ssing of Fruits , Veget ables and Plant ation Crops | Dryin g, utiliza tion of Fruit and Veget able waste | Qualit y Contro 1 in Food Proces sing Industr y, | utiliza tion of Fruit and Veget able waste | Osmotic dehydration, canning, freezing | CO1: Students will have a thorough understanding of various food processing techniques. PO8: Application of Knowledge: - Develop a scientific outlook and apply the knowledge with respect to food technology. CO2: The students will know the importance of various preservation techniques. PO1: Disciplinary Knowledge - Understand the basic concepts, fundamental principles and experimental findings and the scientific the ories related to food technology, food science and Food technology & engineering and its other fields related to the program. |



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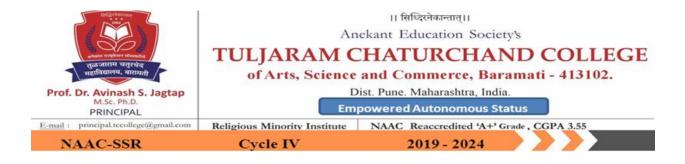
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|-----|--------|---------|---|----------|----------------|------------------------------------|
| FP | Proce | Millin | - | Millin | Processing of | CO1: Students will have a |
| -10 | ssing | g of | | g of | hot serve | thorough understanding the |
| | of | cereal | | cereal | cereals and | unit operations followed for |
| | Cerea | & | | & | ready –to – | raw form to an edible form of |
| | ls, | pulses | | pulses | eat breakfast | cereals and legumes. |
| | Pulse | , | | , | cereals, | PO8: Application of |
| | s and | Extra | | Extra | Flakes, | Knowledge: - Develop a |
| | Oilse | ction | | ction | shreds, | scientific outlook and apply |
| | eds | of oil | | of oil | granules, | the knowledge with respect to |
| | | and | | and | puffed | food technology |
| | | refini | | refini | cereals, sugar | CO2: The students will know |
| | | ng | | ng | coated | the importance of various |
| | | | | | products, | methods to identify any |
| | | | | | popped and | disorder in fresh commodities. |
| | | | | | puffed | PO6: Use of Modern Tools: - |
| | | | | | snacks | Operate modern tools, |
| | | | | | | equipment, instruments and |
| | | | | | | laboratory techniques to |
| | | | | | | perform the experiments and |
| | | | | | | write the programs in different |
| | | | | | | languages. |
| FP | Baker | - | - | - | preparation | CO1: Students will have a |
| -12 | y and | | | | methods of | thorough understanding the |
| | Confe | | | | bread, cake, | processing and preservation of |
| | ctione | | | | biscuits, | appetizers. |
| | ry | | | | cookies, | PO1: Disciplinary Knowledge |
| | Tech | | | | pastry, buns, | - Understand the basic |
| | nolog | | | | crackers, | concepts, fundamental |
| | y y | | | | types of | principles and experimental |
| | y | | | | quick bread, | findings and the scientific the |
| | | | | | chocolate | ories related to food |
| | | | | | manufacture | technology, food science and |
| | | | | | manuracture | |
| | | | | | | 0, |
| | | | | | | engineering and its other fields |
| | | | | | | related to the program. |
| | | | | | | CO2: Students will have a |
| | | | | | | thorough understanding on |
| | | | | | | effect of blending and baking |



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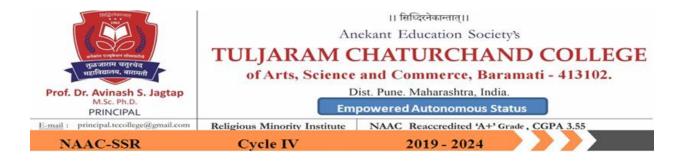
| | FP -13 | Dairy Tech nolog y | Manu factur ing of Ghee, Milk powd er, Khoa, milk based sweet s | | Manu factur ing of Ghee, Milk powd er, Khoa, milk based sweet s | standardizati on, Homogenizat ion, Pasteurizatio n, Homogenize rs, Bottle and pouch fillers, Milk Chillers, Manufacture of Ice Cream, Cream, Paneer, Butter | on final product of bakery. PO6: Use of Modern Tools:- Operatemoderntools,equipme nt,instrumentsandlaboratoryte chniquesto perform the experiments and write the programs in different languages. CO3: The students will know the various extruded product development. PO7: Research Skills:- Understand how to design, collect, analyze, interpret and evaluate information/data that is relevant to food technology. On completion of the course, students will be able to: CO1: Give a comprehensive view of the composition of milk, its chemical, physical and organoleptic properties that can be applied in technological processing of milk. PO4: Analytical Reasoning and Problem Solving- To enable the students with good scientific and engineering knowledge so as to comprehend, design, and create food products and devices |
|--|-----------|-----------------------------|--|--|--|--|---|
|--|-----------|-----------------------------|--|--|--|--|---|





| | for the food industry and provide solutions for the challenges in the food industry as well as in agriculture. |
|--|--|
| | CO2: Explain the production of milk and pre-treatment of milk. |
| | PO7: Research Skills:- Understand how to design, collect, analyze, interpret and evaluate information/data that is relevant to food technology. |
| | CO3: Explain the dairy processing technologies. |
| | PO1: Disciplinary Knowledge - Understand the basic concepts, fundamental principles and experimental findings and the scientific the ories related to food technology, food science and Food technology & engineering and its other fields related to the program. |





| | | | | | | CO4: Apply methods of analysis for dairy products and relate differences in composition and structure to differences in manufacturing processes. |
|-----|-------------|-------------|--------------|-------------|---------------------------|---|
| | | | | | | PO8:ApplicationofKnowledge:-Developascientificoutlookandapplythe knowledge withrespect to food technology. |
| | | | | | | CO5: Create a dairy product and evaluate relevant physical properties. |
| | | | | | | PO7: Research Skills:- Understand how to design, collect, analyze, interpret and evaluate information/data that is relevant to food technology. |
| FP | Food | Qualit | Essent | Qualit | Prevention of | On completion of the course, |
| -14 | Quali | y | ial Comm | y | Food | students will be able to: |
| | ty, Laws | contro 1 | Comm odities | contro 1 | Adulteration Act, Food | CO1: Be able to critically evaluate the recent |
| | and | labora | | labora | Safety | developments in the control of |
| | Regul | tories | Standa | tories | Standard | food safety. |
| | ations | of | rds of | of | Authority of | |
| | | comp | Weigh | comp | India | PO3: Critical Thinking :- |
| | | anies, | ts and | anies, | (FSSAI), | Propose novel ideas in |
| | | Qualit | Measu | Qualit | Codex | |



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| | у | res, | у | Alimentarius | explaining the scientific data, |
|--|-------------|--------------|---------|--------------------|--|
| | contro | Export | contro | , Codex | facts and figures |
| | 1 | (Qualit | | India, World | related to Science and |
| | labora | y y | labora | Health | technology. |
| | tories | , control | | Organization | teennorogy. |
| | of | and | of | orgunization | CO2: Have an integrated view |
| | Consu | Inspec | Consu | , International | of the issues involved. |
| | mer | tion) | mer | Organization | of the issues involved. |
| | co- | Act, | co- | for | PO5: Sense of Inquiry:- |
| | operat | Burea | operat | Standardizati | Curiously ask relevant |
| | ives, | u of | - | on, Food and | questions for better |
| | Privat | Indian | Privat | Agriculture | understanding of |
| | e | Standa | e | Organization | fundamental concepts and |
| | testin | rds | testin | , Joint | principles, scientific theories |
| | g | Act, | g | , Joint FAO/WHO | and applications related to the |
| | s labora | Agmar | - | Expert | study. |
| | tories, | k | tories, | committee on | Study. |
| | Consu | Gradin | Consu | food | CO3: Be able to conduct risk |
| | mer | g and | mer | additives, | assessments of food safety |
| | Guida | Marke | Guida | British Retail | problems including genetic |
| | nce | ting | nce | Consortium(| modification. |
| | Societ | Act | Societ | BRC) | in our our one |
| | y | and | y | standard for | PO11: Environment and |
| | 5 | Rules | 5 | Foods. | Sustainability:- Develop |
| | | Nutriti | | 100005 | various communication skills |
| | | onal | | | such as |
| | | Labelli | | | reading, listening and speaking |
| | | ng & | | | skills to express ideas and |
| | | Educat | | | views clearly and effectively. |
| | | ion | | | in one of the second se |
| | | act, | | | CO4: Demonstrate detailed |
| | | Munic | | | knowledge of the requirements |
| | | ipal | | | for compliance with national |
| | | ipai | | | tor compliance with hautilat |





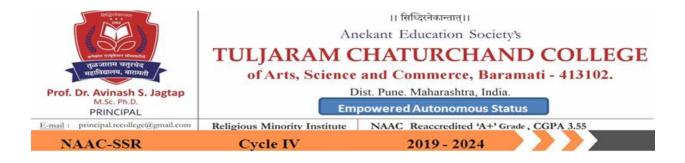
| | | | Labora tories, Food and Drug Admin istratio n, The central Food Testin g Labora tory, Export Inspec tion Counc il Labora tory | | | and international food safety legislation. PO11: Environment and Sustainability:- Develop various communication skills such as reading, listening and speaking skills to express ideas and views clearly and effectively. CO5: Know how to control and maintain a quality management system. PO9: Ethical Awareness- To train students in professional and ethical attitude, effective communication skills, team work skills and multidisciplinary approaches related to food |
|-----------|--|--|---|--|---|--|
| | | | | | 2 | Technology and engineering. |
| FP -15 | Princi ples of Post Harve sts Tech nolog y | Harve sting factor s, Matur ity of harve st, Harve | | Harve sting factor s, Matur ity of harve st, Harve | Post harvest technology of Cereal, Pulses, Oilseeds, Fruits and Vegetables, meat, milk, fish & Food | On completion of the course, students will be able to: CO1: Understand technologies of post harvest technology and its role in providing better quality produce to the consumer. |



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| | sting | sting | storage | PO1: Disciplinary Knowledge |
|--|--------|--------|---------|------------------------------------|
| | Meth | Meth | - | - Understand the basic |
| | | | systems | |
| | ods, | ods, | | concepts, fundamental |
| | Clean | Clean | | principles and |
| | ing | ing | | experimental findings and the |
| | and | and | | scientific the ories related to |
| | Gradi | Gradi | | food technology, food science |
| | ng, | ng, | | and |
| | Food | Food | | Food technology & |
| | storag | storag | | engineering and its other fields |
| | e | e | | related to the program. |
| | syste | syste | | |
| | ms | ms | | CO2: Understand importance |
| | | | | prevention of losses. |
| | | | | - |
| | | | | PO4: Analytical Reasoning |
| | | | | and Problem Solving- To |
| | | | | enable the students with good |
| | | | | scientific |
| | | | | and engineering knowledge so |
| | | | | as to comprehend, design, and |
| | | | | |
| | | | | 1 |
| | | | | devices |
| | | | | for the food industry and |
| | | | | provide solutions for the |
| | | | | challenges in the food industry |
| | | | | as well as in |
| | | | | agriculture. |
| | | | | |
| | | | | CO3: Understand utilization |
| | | | | of the produce and methods for |
| | | | | shelf life extension. |
| | | | | |
| | | | | |





| | PO6: Use of Modern Tools:- |
|--|---------------------------------------|
| | Operatemoderntools, equipme |
| | nt,instrumentsandlaboratoryte |
| | chniquesto perform the |
| | experiments |
| | and write the programs in |
| | different languages. |
| | CO4: Understand cold chain management |
| | PO8: Application of |
| | Knowledge:- Develop a |
| | scientific out look and apply |
| | the knowledge with |
| | respect to food technology. |
| | CO5: Learn quality control |
| | and various standards required |
| | for domestic and export |
| | market. |
| | PO1: Disciplinary Knowledge |
| | - Understand the basic |
| | concepts, fundamental |
| | principles and |
| | experimental findings and the |
| | scientific the ories related to |
| | food technology, food science |
| | and |
| | Food technology & |
| | engineering and its other fields |
| | related to the program. |



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| FP | Food | Types | SOPs | Types | GHPs | On completion of the course, |
|-----|-------|--------|---------|--------|---------------|-------------------------------------|
| -17 | Safet | of | ,HAC | of | ,GMPs, | students will be able to: |
| | у, | hazar | CP, | hazar | SOPs, | CO1: Identify food safety |
| | Hygie | ds, | ISO | ds, | HACCP, ISO | hazards and their control |
| | ne | Contr | series, | Contr | series, TQM, | |
| | and | ol | TQM, | ol | Product | PO3: Critical Thinking :- |
| | Sanit | metho | Produc | metho | labelling and | Propose novel ideas in |
| | ation | ds | t | ds | Nutritional | explaining the scientific data, |
| | | using | labelli | using | labelling | facts and figures |
| | | physi | ng and | physi | | related to |
| | | cal | Nutriti | cal | | Science and technology. |
| | | and | onal | and | | |
| | | chemi | labelli | chemi | | CO2: Identify & prevent |
| | | cal | ng | cal | | potential sources of food |
| | | agents | | agents | | contamination. |
| | | , | | , | | |
| | | Waste | | Waste | | PO3: Critical Thinking :- |
| | | Dispo | | Dispo | | Propose novel ideas in |
| | | sal, | | sal, | | explaining the scientific data, |
| | | Pest | | Pest | | facts and figures |
| | | and | | and | | related to |
| | | Rode | | Rode | | Science and technology. |
| | | nt | | nt | | |
| | | Contr | | Contr | | PO8 : Application of |
| | | ol, | | ol, | | Knowledge:- Develop a |
| | | Perso | | Perso | | scientific out look and apply |
| | | nnel | | nnel | | the knowledge with respect to |
| | | Hygie | | Hygie | | food technology. |
| | | ne, | | ne, | | |
| | | Food | | Food | | CO3: Apply the principles of |
| | | Safety | | Safety | | Hazard Analysis Critical |
| | | | | | | Control Points (HACCP). |





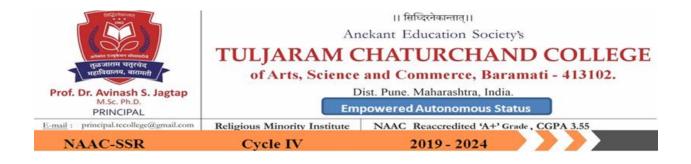
| Meas | Mea | IS | |
|------|------|----|--|
| ures | ures | | PO8: Application of Knowledge:- Develop a scientific out look and apply the knowledge with respect to food technology. |
| | | | CO4: Recognize the principal legal responsibilities of food handlers regarding personal hygiene. |
| | | | PO4: Analytical Reasoning and Problem Solving- To enable the students with good scientific and engineering knowledge so as to comprehend, design, and create food products and devices for the food industry and provide solutions for the challenges in the food industry as well as in agriculture. |
| | | | CO5: Apply a range of food quality systems |
| | | | PO8-ApplicationofKnowledge:-Developascientificoutlookandapply |



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| स्वत्र प्रमुधिवर सीम्प्रतेष् तुळ जाराम चतुरचेव महाविद्यालय, चारामती Prof. Dr. Avinash S. Jagtap M.Sc. Ph.D. | TULJARAM CHATURCHAND COLLEGE of Arts, Science and Commerce, Baramati - 413102. Dist. Pune. Maharashtra, India. | | | | | |
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| | | | | the knowledge with respect to food technology. CO6: Prepare a food safety plan PO3- Critical Thinking :- Propose novel ideas in explaining the scientific data, facts and figures related to Science and technology. |
|----------|---|---|---|--|
| FP -1 | - | _ | Vacuum, CA and MA packaging systems, gas packaging machine; seal and shrink packaging machine; form and fill sealing machine; aseptic packaging systems; bottling machines; carton making machines | On completion of the course, students will be able to: CO1: Describe the role and function of packaging materials used for a range of consumer food . PO1: Disciplinary Knowledge - Understand the basic concepts, fundamental principles and experimental findings and the scientific the ories related to food technology, food science and Food technology & engineering and its other fields related to the program. CO2: Design solutions to packaging problems. |





| | | PO7- Research Skills:- Understand how to design, collect, analyze, interpret and evaluate information/data that is relevant to food technology. |
|--|--|---|
| | | CO3: Measure and evaluate the chemical, physical and mechanical properties of packages and packaging. |
| | | PO7- Research Skills:- Understand how to design, collect, analyze, interpret and evaluate information/data that is relevant to food technology. |
| | | CO4: Explain knowledge of the legal, environmental, quality aspects associated with packaging materials and operations used in the food industry. |
| | | PO1: Disciplinary Knowledge - Understand the basic concepts, fundamental principles and experimental findings and the scientific the ories related to |



| رمت مراجعة مرمت مراجعة مراجع مراجعة مراجع مراجعة مراجع مراجع مراجع مراجع مراجع مراجع مراجع مراجعة مراجع مراحم مراحما مراحما مراحما مراجع مراحما مراما مراحما مراما مراحما مراما مراما مما مرام مراحما مراحما مراما مراحما مراما مما مراما مراما مرما مما مراما مراما مراما مراما مراما مراما مراما مرما مما م | TULJARAM C of Arts, Science | ।। सिध्दिरनेकान्तात्।। Anekant Education Society's TULJARAM CHATURCHAND COLLEGE of Arts, Science and Commerce, Baramati - 413102. Dist. Pune. Maharashtra, India. Empowered Autonomous Status | | | | | |
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| | | | food tec | hnology, food sci | ience |
|--|--|--|-----------|----------------------|--------|
| | | | and | | |
| | | | Food | technology | & |
| | | | enginee | ring and its other f | fields |
| | | | related t | to the program. | |
| | | | | | |

| Progr amm e | Co urs e | Cour se Title | Topic in the syllabus which has relevance to the developmental needs | | | | POs, PSO's & COs |
|-------------------|----------------|---------------------|--|---------|---------|---------|--|
| | Со | | Local | Natio | Regio | Globa | |
| | de | | | nal | nal | 1 | |
| M.Vo | FP | Bever | Packa | FSSA | Packa | FSSAI | After learning this subject |
| c. | T- | ages | ged | Ι | ged | specifi | CO1: Students will be able to |
| Food | 201 | and | drinki | specifi | drinki | cation | know different types of beverages |
| Proce | | Snack | ng | cation | ng | s for | found in Indian as well as |
| ssing | | Food | water | s for | water | bevera | international market. |
| Techn | | Techn | Proces | bevera | Proces | ges, | PO1:- Disciplinary Knowledge - |
| ology | | ology | sing, | ges | sing, | Techn | Understand the basic concepts, |
| (PG) | | | roaste | | roaste | ology | fundamental principles and |
| | | | d, | | d, | for | experimental findings and the |
| | | | toasted | | toasted | fruit | scientific the ories related to food |
| | | | , | | , | and | technology, food science and Food |
| | | | puffed, | | puffed, | vegeta | technology & engineering and its |
| | | | poppe | | poppe | ble | other fields related to the program. |
| | | | d and | | d and | based | CO2: Students will have better |
| | | | flakes | | flakes | snacks | ideas regarding alcoholic and non- |
| | | | Coated | | Coated | , | alcoholic Beverages with water |
| | | | grains- | | grains- | Techn | industry. |
| | | | salted, | | salted, | ology | PO3- Critical Thinking :- Propose |
| | | | spiced | | spiced | for | novel ideas in explaining the |
| | | | and | | and | coated | scientific data, facts and figures |
| | | | sweete | | sweete | nuts, | related to Science and technology. |
| | | | ned | | ned | techno | |



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| | | | 171 | [] | 171 | 1 | |
|---------|----------|--------|-------------|----|-------------|---------|--|
| | | | Flour | | Flour | logy | CO3: Students will have thorough |
| | | | based | | based | for | knowledge of different types of |
| | | | snack- | | snack- | RTE | cereal based |
| | | | batter | | batter | puffed | PO1:- Disciplinary Knowledge - |
| | | | and | | and | snack | Understand the basic concepts, |
| | | | dough | | dough | | fundamental principles and |
| | | | based | | based | | experimental findings and the |
| | | | produc | | produc | | scientific the ories related to food |
| | | | ts; | | ts; | | technology, food science and Food |
| | | | savour | | savour | | technology & engineering and its |
| | | | y and | | y and | | other fields related to the program. |
| | | | farsans | | farsans | | CO4: Students will get brief |
| | | | : | | : | | knowledge of fruits and vegetables |
| | | | formul | | formul | | based snacks. |
| | | | ated | | ated | | PO8- Application of Knowledge:- |
| | | | chips | | chips | | Develop a scientific outlook and |
| | | | and | | and | | apply the knowledge with respect |
| | | | wafers | | wafers | | to food technology. |
| | | | waters | | waters | | to food technology. |
| | | | , papads | | , papads | | |
| | | | papaus | | papaus | | |
| | FP | Food | Food, | _ | Food | Toxic | Students should be able to: |
| | гр Т- | | · · · | - | | | |
| | | Additi | conta | | conta | ologic | CO1: Uses of additive in food |
| | 202 | ves, | minant | | minant | al | material |
| | | and | S, | | s, | evalua | PO6- Use of Modern Tools:- |
| | | Toxic | types | | types | tion of | Operatemoderntools, equipment, in |
| | | ology | of food | | of food | food | strumentsandlaboratorytechniques |
| | | | additiv | | additiv | additi | to perform the experiments and |
| | | | es | | es | ves | write the programs in different |
| | | | | | | | languages. |
| | | | | | | | CO2: Effects of toxicants in |
| | | | | | | | human |
| | | | | | | | PO3- Critical Thinking :- Propose |
| | | | | | | | novel ideas in explaining the |
| | | | | | | | scientific data, facts and figures |
| | | | | | | | related to Science and technology. |
| | | 1 | I | | | I | related to before and teennology. |



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| FP Adva Biode - Biode Classi CO1: Stu | damata 11 1-1 - 4 | | |
|--|---------------------------------------|--|--|
| T marked and the second s | dents will be able to | | |
| T- nces gradab gradab ficatio understand | major food | | |
| 203 Food le le n of preservation | 0 0 | | |
| Proce plastic plastic Therm techniques | and underlying | | |
| ssing s, s, al principles. | | | |
| | ciplinary Knowledge - | | |
| | the basic concepts, | | |
| ging Coatin Coatin freezi fundamenta | 1 1 | | |
| | al findings and the | | |
| | e ories related to food | | |
| | food science and Food | | |
| | & engineering and its | | |
| | related to the program. | | |
| | dents will be able to | | |
| atmos determine | suitable methods of | | |
| pheric processing | and Packaging | | |
| packa techniques f | for a chosen food. | | |
| ging, PO7- | Research Skills:- | | |
| Asepti Understand | how to design, collect, | | |
| c analyze, in | terpret and evaluate | | |
| packa information | /data that is relevant to | | |
| ging, food techno | logy. | | |
| Gas CO3: Stu | | | |
| packa understand | understand Novel food processing | | |
| ging methods lik | methods like Thermal processing, | | |
| machi cold preserv | cold preservation etc. | | |
| ne, PO3- Critic | al Thinking: - Propose | | |
| Seal novel idea | s in explaining the | | |
| | ata, facts and figures | | |
| | cience and technology. | | |
| packa CO4: Stu | dents will be able to | | |
| | understand operations involved in | | |
| | packaging Material manufacturing | | |
| | PO1:- Disciplinary Knowledge - | | |
| | Understand the basic concepts, | | |
| | fundamental principles and | | |
| | al findings and the | | |
| | e ories related to food | | |



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| | | | | | g | technology, food science and Food |
|-----|-------|---------|--------|---------|----------------|---------------------------------------|
| | | | | | machi | technology & engineering and its |
| | | | | | ne, | other fields related to the program. |
| | | | | | Vacuu | CO5: Students will be able to |
| | | | | | m | understand major packaging |
| | | | | | packa | material and methods used in food |
| | | | | | ging | packaging. |
| | | | | | machi | PO1:-Disciplinary Knowledge - |
| | | | | | ne, | Understand the basic concepts, |
| | | | | | Retort | fundamental principles and |
| | | | | | pouch | experimental findings and the |
| | | | | | es, | scientific the ories related to food |
| | | | | | Bottli | technology, food science and Food |
| | | | | | ng | technology & engineering and its |
| | | | | | machi | other fields related to the program. |
| | | | | | nes, | |
| | | | | | Packa | |
| | | | | | ge | |
| | | | | | printin | |
| | | | | | g 1 · | |
| | | | | | machi | |
| | | | | | nes, Ionizi | |
| | | | | | | |
| | | | | | ng radiati | |
| | | | | | | |
| FP | Dairy | Produc | Challe | Produc | on Chees | CO1: Students will understand |
| T- | Proce | tion | nges | tion | e | the concept of processing of milk |
| 301 | ssing | and | faced | and | Techn | and milk products. |
| 201 | Techn | proces | by the | proces | ology, | PO1:- Disciplinary Knowledge - |
| | ology | sing of | Indian | sing of | Suppl | Understand the basic concepts, |
| | - 01 | cream, | Dairy | cream, | y y | fundamental principles and |
| | | butter | Suppl | butter | Chain | experimental findings and the |
| | | and | y | and | Mana | scientific the ories related to food |
| | | ghee | Chain. | ghee | gemen | technology, food science and Food |
| | | - | | - | t of | technology & engineering and its |
| | | | | | Dairy | other fields related to the program. |



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| प्रकार प्रयोग वीलाको प्रतिविद्यालय, पारामती Prof. Dr. Avinash S. Jagtap M.Sc. Ph.D. PRINCIPAL | TULJARAM C of Arts, Science | CHATURCHAND COLLEGE and Commerce, Baramati - 413102. Dist. Pune. Maharashtra, India. powered Autonomous Status | | | | |
| ENGED STORE | ।। सिध्दिरनेकान्तात्।। | | | | | |

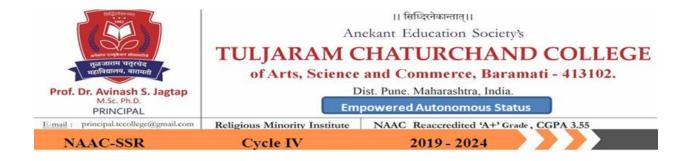
| FP T- 302 | Post- Harve st Techn ology | Size reducti on proces s, Mass, Energ y balanc e and Heat transfe r, Produc ts and by produc ts of plantat ion crops: cashe | WTO guidel ines for export of hortic ultural produ ces – COD EX standa rds and export standa rds for major fruits, vegeta bles | Size reducti on proces s, Mass, Energ y balanc e and Heat transfe r, Produc ts and by produc ts of plantat ion crops: cashe | Produ cts | CO2: The students will able to explain the basics behind milk process technology that would comparatively help to get the knowledge of technical views regarding industrial aspect. PO8- Application of Knowledge:-Develop a scientific out look and apply the knowledge with respect to food technology. CO1: Students will acknowledge the steps and techniques involved in post -harvest practices. PO1:- Disciplinary Knowledge - Understand the basic concepts, fundamental principles and experimental findings and the scientific the ories related to food technology, food science and Food technology & engineering and its other fields related to the program. CO2: The students will able to explain processing and packaging operations. PO6- Use of Modern Tools:-Operatemoderntools, equipment, in struments and laboratorytechniques to perform the experiments and write the programs in different languages. |
|-----------------|--|--|---|--|--------------|--|
| | | ts of plantat | major | ts of plantat | in major | to perform the experiments and write the programs in different |
| | | cashe | bles | cashe | | |
| | | w, areca | and planta | w, areca | | |
| | | nut, cocon | tion crops. | nut, cocon | | |
| | | ut, | crops. | ut, | | |
| | | Coolin | | Coolin | | |



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| | ।। सिध्दिरनेकान्तात्।। | | | | | | |

| Г | FP Food F3 Safety J3 and Qualit y Mana geme nt | g treatm ents for fruits, vegeta bles and plantat ion crops, Ripeni ng metho ds Good manuf acturin g practic es (GMP) | HAC CP, ISO, Codex Alime ntariu s Com missio n (CAC) | g treatm ents for fruits, vegeta bles and plantat ion crops, Ripeni ng metho ds Good manuf acturin g practic es (GMP) | HAC CP, ISO, Codex Alime ntarius Comm ission (CAC) | CO1: Students will understand the concept of quality management in food processing. PO8- Application of Knowledge:-Develop a scientific out look and apply the knowledge with respect to food technology. CO2: The students will able to explain the degree of standard of any processed product. PO5- Sense of Inquiry:- Curiously ask relevant questions for better understanding of fundamental concepts and principles, scientific theories and applications related to the study. |
|---|---|--|--|--|--|---|
|---|---|--|--|--|--|---|





MEDIA AND COMMUNICATION STUDIES

| Program me | Cours e | Course Title | Topic in the syllabus which has relevance to the developmental needs | | | | |
|---|-------------|--|--|--|---|---------------------------------|-----------------------------|
| | Code | | Local | National | Regional | Global | & COs |
| B.Voc. Journalism and Mass Communi cation | UBJM 111 | Introducti on to Mass Communi cation | | | | Process of Communi cation | PSO3 CO1 |
| | UBJM 112 | UBJM112 Introducti on to Journalism | | Legal and ethical Framewor k | | | <i>PSO3</i> CO3,4 |
| | UBJM 113 | Current Affairs- World, India, Maharasht ra | | K Socio- political scenario of India., Economic situation of India. | Socio- political scenario Maharash tra, Economi c situation of Maharash tra., Agricultu ral Scenario in India | | <i>PSO1</i> CO1,2 , 3 |
| | UBJM 114 | Language skills- Marathi | - | - | - | - | CO1,2 , 3 |
| | UBJM 115 | Computer Applicatio n for Media | MS- WORD | Web developme nt: HTML and | Introducti on to Photosho p | | CO1,2 , 3 |



| भारतारामा स्थानस्थित अध्यक्ष प्रमुखेल्या सीमाजन्ति स्थानियालय, सारामती | ।। सिद्धिरनेकान्तात्।। Anekant Education Society's TULJARAM CHATURCHAND COLLEGE of Arts, Science and Commerce, Baramati - 413102. | | | | | |
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| | | | Scripting language | | | |
|-------------|--|---|-------------------------------|---|---|-----------------------------|
| UBJM 116 | Basics of photograp hy | | Compositi on | Camera modes, Camera controls | | <i>PSO8</i> CO1,2 , 3 |
| UBJM 121 | News reporting and Editing-I | News Reporting and News Beats | Working on News Desks 2 | Basics of News Writing, Editing | | <i>PSO3</i> CO1,2 , 3 |
| UBJM 122 | Writing for Media- I | Story Writing | Practice Writing | Various Types of Online Media Writing | | PO8 CO1,2 , 3 |
| UBJM 123 | India after independe nce | - | - | - | - | CO1,2 , 3 |
| UBJM 124 | Language skills- English | Grammar Usage, Interview and Group discussion | | Personalit y developm ent | Writing and comprehe nsion skills | PO 1, CO1,2 , 3 |
| UBJM 125 | Feature Writing | Computer typing techniques | Writing across media | Human interest stories | | PO2, CO1,2 , 3 |
| UBJM 126 | Content Production on Mobile | Creation of short Videos | | Types of Content | | PO8 CO1,2 , 3 |
| UBJM 231 | News Reporting and Editing-II | Layout Design and Photojourn alism | | Reporting , Interview ig, Creative Editing | | PO5 CO1,2 , 3 |



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| UBJM 232 | Writing for Media- II | Creative Content Creation | | Writing for Non- Fiction Genres | | PO5 CO1,2 , 3 |
|-------------|---------------------------------------|--|--|--|--|---------------------|
| UBJM 233 | Introducti on to Radio | | Radio News, Production technolog y | Radio News, Productio n technolog y | | PO8 CO1,2 , 3 |
| UBJM 234 | Reporting and Editing Skills | Specialize d Writing, Layout and design | Photograp hy | Writing across media | | PO8 CO1,2 , 3 |
| UBJM 235 | Radio Production | Radio Program production | | Advertis ment | | PO5 CO1,2 , 3 |
| UBJM 236 | Experimen tal Journal | produce a four-page newspaper | | Design and layout | | PO5 CO1,2 , 3 |
| JM 401 | Introducti on to Television | News Gathering | | Televisio n Program ming | | PO5 CO1,2 , 3 |
| JM 402 | India After Independe nce | | Popular Movement s, Eve of new millenniu m | | | CO1,2 , 3 |
| JM 403 | Introducti ons to Economic s | | Introducti on to Indian Economy | Contemp orary Economi c Issues in State of | Internation al Trade and its impact | CO1,2 , 3 |



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|-----------|--|---|---|-------------------------------------|---------------------------------------|---------------|
| IM 404 | Television Production | News Anchoring | News Production - Packaging and production | News Gathering and writing | | CO1,2 , 3 |
| M 405 | Film Appreciati on | Other Film Institutions | | World and Indian Cinema | | |
| IM 406 | Basics of Video production | Camera Exercise, Editing, Camera Technique s | | | | CO1,2 , |
| IM 501 | Introducti on to Digital Media | | Social Media, New Media Theories | Digital storytelli ng | | CO1,2 ,3,4 |
| M 502 | Introducti on to Media Research | Data Analysis | Qualitativ e research methods, Quantitati ve research methods | | | CO1,2 ,3,4 |
| IM 503 | Mass Communi cation Theory | Personal Influence and Sociologic al Theory | Normative Theories of Mass Communi cation | Mass Media and Culture | Mass Communi cation Theories | CO1,2 ,3,4 |
| IM 504 | Content Developm ent For | | | Fake News and | Twitter and Instagram, | CO1,2 ,3,4 |



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| | Digital Media | Writing for Digital Media | | facts checking | YouTube | |
|-----------|---|--|--|---|---------|-------------------|
| JM 505 | Video Production Group Project | Screenplay writing, Script writing, Production Work | | | | CO1,2 ,3 |
| JM 506 | Industry | | | Internshi | | CO1,2 |
| JM 601 | Internship Basics of Advertisin g | | Theories and Models of Advertisin g | p Understa nding Brands, Working of Advertisi ng Agency | | ,3 CO1,2 ,3 |
| JM 602 | Basics of Public Relations | PR during crisis | | Use of Social Media in PR | | CO1,2 ,3 |
| JM 603 | Media Managem ent | Marketing strategies | | Finance and HR Managem ent | | CO1,2 |
| JM 604 | Advertisin g Practices | Creation of Advertise ment | Online platforms for advertisem ents | Advertisi ng Campaig n design | | CO1,2 ,3 |
| JM 605 | Dissertatio n/In-depth reporting (IDR) | RESEARC H PROJECT | | | | CO1,2 ,3 |
| JM 606 | Internship | | | Internshi p | | CO1,2 ,3 |

