

DEFENCE

| Progra | Course | Course | Topic in | the syl | nich has | POs, PSO's | |
|--------|--------------|---|--------------------|---|------------------------|------------------------|---|
| mme | Code | Title | relevance | to the deve | elopmenta Region | l needs | & COs |
| | | | Local | l | al | Giobai | |
| FYBA | DEF11 01A | Defence Mechanis m of India – I | Border Security | Border Security , Internal Security | Border Securit y | Border Securit y | PO3 Social compe tence: CO1: Under stand the hierarc hical structu re and organi zation of the Indian militar y. |
| FYBA | DEF12 01A | Defence Mechanis m of India - II | | Indian Army | | | PO4 : Discip linary Knowl edge CO3: Examine the characteristic s and roles of the Armored Corps in modern warfare. |





।। सिध्दिरनेकान्तात्।।

Anekant Education Society's

TULJARAM CHATURCHAND COLLEGE

of Arts, Science and Commerce, Baramati - 413102.

Dist. Pune. Maharashtra, India.

Empowered Autonomous Status

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

NAAC-SSR

Cycle IV

| | DEF | Military | | Principl | Principl | Principl | CO3: |
|------|--------|------------|-----------|----------|----------|----------|----------------|
| | 1101B | Thinkers - | Principle | es for | es for | es for | Examine the |
| | | Ι | s for war | war | war | war | Schlieffen |
| | | | | | | | Plan and |
| | | | | | | | understand |
| | | | | | | | its objectives |
| | | | | | | | and |
| | | | | | | | implications. |
| | DEF | Military | Geopolit | Geopolit | Geopoli | Geopoli | PO7 |
| | 1201B | Thinkers - | ics | ics | tics | tics | Environment |
| | | II | | | | | and |
| | | | | | | | Sustainabilit |
| | | | | | | | У |
| | | | | | | | |
| | | | | | | | CO6: |
| EVDA | | | | | | | Understand |
| ITDA | | | | | | | the concept |
| | | | | | | | of the |
| | | | | | | | indirect |
| | | | | | | | approach in |
| | | | | | | | military |
| | | | | | | | strategy as |
| | | | | | | | advocated by |
| | | | | | | | Liddell Hart. |
| | DEF- | | Role of | Role of | Role of | Role of | CO1: |
| | 2301(A | Military | Geograp | Geograp | Geogra | Geogra | Analyze the |
| |) | Geograph | hy In | hy In | phy In | phy In | specific arms |
| | | y- I | War | War | War | War | and logistics |
| SYBA | | | | | | | required for |
| | | | | | | | effective |
| | | | | | | | warfare in |
| | | | | | | | different |
| | | | | | | | terrains. |





| | DEF- 2401(A) | Military Geograph y- II | | Sea Warfare | | Sea Warfare | PO4 : Discip linary Knowl edge CO3: Examine the characteristic s and roles of the Armored Corps in modern warfare. |
|------|---------------------|-------------------------------|--|--|--|--|---|
| SYBA | DEF- 2301(B) | Geopoliti cs-I | Maritim e Boundar ies and Territori al sea(| Maritim e Boundar ies and Territori al sea(| Maritim e Bounda ries and Territor ial sea(| Maritim e Bounda ries and Territor ial sea(| PO2 Effective Citizenship and Ethics CO2: Evaluate how Geopolitics influences national security policies and geopolitical strategies. |





| DEF- 2401(B) | Geopoliti cs-II | Frontier and Boundar ies | Frontier and Boundar ies | Frontier and Bounda ries | Frontier and Bounda ries | PO2 Effective Citizenship and Ethics CO1: Understand the concept and role of a buffer and landlocked state in geopolitics. |
|---------------------|---|------------------------------------|------------------------------------|-----------------------------------|-----------------------------------|--|
| DEF- 2302 | Chatrapat i Shivajis Military System-I | Maharas htra Geopolit ics | Maharas htra Geopolit ics | | | PO4 : Discip linary Knowl edge CO1: Students will understand the historical foundations leading to the rise of Maratha power, including the socio- political context and regional dynamics. |



| | हार्वद्वर्थवान्तम् अन्यान्त प्रज्युवेश्वन्त सीताव्दन्ति तुद्ध्यजाराम् चतुरचंद महाविद्यालय, बारामती | | | ।। सिध्दिरनेकान्तात्।। Anekant Education Society's TUITARAM CHATURCHAND COLLEGE | | | | | | |
|--------------------------|---|--|--|---|--------------------------------|--------------------------------|--------------------------------|---|----|--|
| तुळजाराम महाविद्यालय | चतुरचंद 4, बारामती | | ofArt | ts, Scien | ce and (| Comme | rce, Bai | ramati - 413102. | GL | |
| Prof. Dr. Avina M.Sc. | ash S. Jagta Ph.D. | ар | | | Dist. Pun | e. Mahara | shtra, Indi | a. | | |
| -mail : principal.te | CIPAL ccollege@gmail. | .com Re | ligious Mino | rity Institute | | C Reaccre | dited 'A+' | Grade, CGPA 3.55 | | |
| NAAC-S | SR | | Cvcle I | \mathbf{v} | | 2019 - | 2024 | | | |
| | | | | | | | | | | |
| | SYBA | DEF- 2402 DEF- 2303 DEF- 2403 | Chatrapat i Shivajis Military System-II Indias Internal Security-I Indias Internal Security-I | Organiza tion of Maratha Forts and Aarmar | Naxalis m Cyber Crime | Naxalis m Cyber Crime | Naxalis m Cyber Crime | PO4 : Discip linary Knowl edge CO7: Students will explore Chatrapati Shivaji's contributions to naval development. PO2 Effective Citizenship and Ethics CO4: Students will understand the meaning and conceptual framework of Naxalism PO2 Effective Citizenship and Ethics | | |
| | | | II | | | | | CO3: Analyze the evolution of cyber threats and their impact on individuals, organizations , and nations. | | |





NAAC-SSR

।। सिध्दिरनेकान्तात्।।

Anekant Education Society's

TULJARAM CHATURCHAND COLLEGE

of Arts, Science and Commerce, Baramati - 413102.

Dist. Pune. Maharashtra, India.

Empowered Autonomous Status

.-mail : principal.tccollege@gmail.com

Cycle IV

Religious Minority Institute NAAC Reaccredited 'A+' Grade, CGPA 3.55

| | G3 (A) | INDIA'S | | National | | India's | - |
|------|----------|------------|---------|----------|---------|---------|---|
| | | NATION | | Security | | Foreign | |
| | | AL | | | | Policy | |
| | | SECURI | | | | - | |
| | | TY | | | | | |
| | G -3 (C | Contemp | Nuclear | Nuclear | Nuclear | Nuclear | - |
| |) | orary | Warfare | Warfare | Warfare | Warfare | |
| | | Warfare | | | | | |
| TYBA | | | | | | | |
| | S -3 (A | Internatio | | | | United | - |
| |) | nal and | | | | Nations | |
| | | Regional | | | | | |
| | | Organisat | | | | | |
| | | ions | | | | | |
| | S-4(A) | Defence | War | War | War | War | |
| | | Economic | finance | finance | finance | finance | |
| | | S | | | | | |





ECONOMICS

| Progr | Course | Cours | Topic in th | ne syllabus w | which has rele | evance to the | POs, |
|-------------------------------|--|---|--|---|--|---|--|
| amme | Code | e litte | developme | ental needs | NT (* 1 | | PSU's |
| E M | FROME | 7 11 | Local | Regional | National | Global | & COs |
| F.Y. B.A. Econo mics | ECOGE N111 | Indian Eco. Prob. & pros.I | 1.Major issues of Develop ment in India 2.Measur es for Populatio | 1.Major issues of Developm ent in India 2.Measure s for Populatio | 1. Major issues of Developme nt in India 2.Measures for Population Control | 1.Major issues of Developme nt in India 2.Measures for Population Control | CO 1: Acquain ting students with the problem s of the econom |
| | | | n Control | n Control | | | y. PO1Res earch- Related Skills: |
| | ECOGE N121 | Indian Eco. Prob. & pros.II | Technolo gy in Banking | Technolo gy in Banking | 1.Function s of Banks 2.Methods of Remittance s 3.Function s of RBI | Technolog y in Banking | CO1: To acquaint students with various types & function s of Banks and negotiab le instrume nts and modern technolo gy in banking. PO2 Effectiv e Citizens hip and |
| | Progr amme F.Y. B.A. Econo mics | Progr ammeCourse CodeF.Y.ECOGEB.A.N111Econo micsB.A.N111Econo micsB.AB.AB.A.ECOGE N121 | Progr ammeCourse CodeCourse e TitleF.Y.ECOGEIndianB.A.N111Eco.EconoProb.& & pros.ImicsECOGEIndianN121Eco.Prob. & & pros.IIF.Y.ECOGEIndianProb.N121Frob. & & pros.II | Progr ammeCourse CodeCours eTopic in th developmedF.Y.ECOGE N111Indian Eco.1.Major issues of Develop ment in India 2.Measur es es for Populatio n ControlECOGE N121Indian Prob.1.Major issues of Develop ment in India 2.Measur es for Populatio n ControlECOGE N121Indian Eco. Prob. & weight weight weightTechnolo gy in BankingECOGE N121Indian Eco. Prob. & weightTechnolo gy in Banking | Progr amme Course Code Course e Title e Title Topic in the syllabus v developmental needs F.Y. ECOGE Indian 1.Major 1.Major B.A. N111 Eco. issues of issues of Develop Develop Developm Developm mics N111 Eco. Indian 1.Major generation A Prob. Develop Developm ment in ent <inin< td=""> India 2.Measure es generation for s for Populatio n Control N121 Eco. Technolo gy in N121 Eco. Prob. Banking Banking A Prob. Banking Banking Banking</inin<> | Progr amme Course Code Course e Title e Title Topic in the syllabus which has relead developmental needs F.Y. ECOGE Indian 1.Major issues of suese of prob. I.Major I.Major I. Major B.A. N111 Eco. Prob. Develop Developm Developm mics A N111 Eco. Develop Developm Developm mics A Prob. Develop Developm Developm Developm generation Banking India India Soft Population pros.I Indian Technolo Soft Population Control N121 Eco. Indian Technolo Soft Soft Banking Soft Banking N121 Eco. Prob. Banking Soft Banking Soft Banking Soft Banking Soft Banking Miles For. Soft Banking Soft Banking Soft Banking Soft Banking Soft Banking | Progr amme Course Code Course e Title bevelopmental needs Topic in the syllabus which has relevance to the developmental needs F.Y. B.A. Econo mics ECOGE N111 India Eco. Prob. bevelop I.Major issues of Develop ment in pros.I I.Major India Develop ment in rob. I.Major issues of e for s for Populatio n Control I.Major Developm Developm ment in rob. I.Major issues of e for s for Populatio n Control I.Major Developm Povelopm ment in rob. I.Major issues of e for s for Populatio n Control I.Major Developm Populatio n Control ECOGE N121 India Eco. Prob. & pros.II Technolo gy in Banking Technolo gy in Banking I.Function s of Banks 3.Function s of RBI Technolog gy in Banking |





-mail : principal.tccollege@gmail.com

।। सिध्दिरनेकान्तात्।।

Anekant Education Society's

TULJARAM CHATURCHAND COLLEGE

of Arts, Science and Commerce, Baramati - 413102.

Dist. Pune. Maharashtra, India.

Empowered Autonomous Status

Religious Minority Institute NAAC Reaccredited 'A+' Grade, CGPA 3.55

NAAC-SSR

Cycle IV

| S.Y.B. A. Econo mics | ECOGE N2301 | Bankin g & Financ e | 2.2 Methods of Remittan ces – Demand Draft, Bankers Cheque, Mail Transfer, Telegrap hic Transfer, Electroni c Funds Transfer. | 4.1 Welfare Economic s 3.1 Meaning and Definition 3.2 Pigou's Welfare Economic s 3.3 Social Welfare Function. 3.4 Condition s of Pareto Optimalit y | 1.2 Evolution of Banking in India 1.3 Structure of Indian Banking System 2.5 Nationaliza tion of Commerci al Banks – Achieveme nt and Failures. 2.6 Banking Reforms after 1991 | 3.4 Modern Technolog y – Concept of ATM, Credit Card, Debit Card, Tele Banking, Net Banking & Core Banking. | CO6. Students will be able to Analyze the perform ance of Non- Banking financial institutio ns and the measure s for NBFC given by RBI. CO7. Understa nd and rememb er the basics of Indian Financia 1 System with the help of recent changes being adopted. PO6 Self- directed and Life- long learning: PO7 Environ |
|-------------------------------|----------------|------------------------------|---|---|--|---|---|





National

Income

in India

accounting

nt

ion

and

Types of

Mone

у



onal

trade and

finance

concepts

to global pricing

issues, includin

working with

g

| Prof. Dr. Avinash S. Jag M.Sc. Ph.D. PRINCIPAL mail : principal.tccollege@gma | tap il.com] | ।। सिध्दिरनेकान्तात्।। Anekant Education Society's TULJARAM CHATURCHAND COLLEGE of Arts, Science and Commerce, Baramati - 413102. Dist. Pune. Maharashtra, India. Empowered Autonomous Status Religious Minority Institute NAAC Reaccredited 'A+' Grade, CGPA 3.55 Cycle IV 2019 - 2024 | | | | | | |
|--|-----------------|--|---|--|--|--|---|--|
| | ECOGE N2401 | Cooperation | 2.2 Problems of Co- operative Agricultu ral Marketin g. 2.3 Measures to solve the problems of Co- operative agricultur al | 2.1 Role of Co- operative agricultur al Marketing 2.2 Problems of Co- operative Agricultur al Marketing 2.3 Measures to solve | 1.1 History of Co- operative movement in India | 1.3 Principles of Co- operation | PO1 Researc h- Related Skills: PO2 Effectiv e Citizens hip and Ethics: PO3 Social compete nce: PO4 Discipli nary Knowle dge: PO5 Personal and professi onal CO 4 Global Context : By analyzing empirical models, students will understan d how countries like Japan and China have shaped their economic | |



| 134(2)(2)(2)(2)(2)(2)(2)(2)(2)(2)(2)(2)(2)(| | | | ।। सिध्दिरनेकान्ता | त्।। | | |
|---|---|-----------------|------------|--------------------|----------------|----------------|-------|
| | | | Anekan | t Educatio | n Society's | | |
| | TITI | ARAT | ACH | TIRC | HANI | | IECE |
| तुळजाराम चतुरचंद | IULJ | ANAI | | AIUKC | | | LLLGL |
| महाविधालय, बारामती | of | Arts, Sci | ience and | Commer | ce, Baran | nati - 413 | 3102. |
| Prof. Dr. Avinash S. Jagtap | | | Dist. Pı | une. Maharas | htra, India. | | |
| PRINCIPAL | | l | Empowe | red Autono | mous Statu | IS | |
| mail : principal.tecollege@gmail.com | Religious I | Minority Inst | titute NA | AC Reaccred | ited 'A+' Grad | e, CGPA 3.5 | 55 |
| NAAC-SSR | Cvc | le IV | | 2019 - 3 | 2024 | | > |
| | -,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | | | | _ | |
| | | Marketin | the | | | trajectorie | 1 |
| | | | problems | | | s | |
| | | $\Delta \Delta$ | of Co- | | | s. develonm | |
| | | Housing | operative | | | ent. | |
| | | Co- | agricultur | | | PO2 | |
| | | operative | al | | | Effectiv | |
| | | s - | Marketing | | | e | |
| | | Progress, | | | | Citizens | |
| | | Problems | 2.4 State | | | hip and | |
| | | and | Trading | | | Ethics: | |
| | | measures | Co- | | | PO3 | |
| | | | operation. | | | Social | |
| | | | 3.4 | | | compete | |
| | | | NABARD | | | nce: | |
| | | | — | | | PO4 | |
| | | | Objective | | | Discipli | |
| | | | s, | | | nary | |
| | | | Functions | | | Knowle | |
| | | | & | | | dge: | |
| | | | working. | | | PO5 | |
| | | | | | | Personal | |
| | | | | | | and | |
| | | | | | | professi | |
| | | 1.7 | | 1.0 | 4 4 337 10 | onal | - |
| ECOS | SP Micro | 1./ | 1.2 | 1.2 | 4.1 Welfare | CO4. | |
| L2402 | Econo | Practical | Monopoly | Monopoly | Economics | Understa | |
| | mics II | and | Market - | Market - | 3.1 Maanima | nd factors | |
| | | Applicati | Concept, | Concept, | wieaning | uial | |

| L2402 | LCOHO | Flactical | WIOHO | pory | WIOHO | poly | LCOI | lonnes | Unde | ista |
|-------|---------|------------|--------|-------|--------|--------|------|---------|--------|-------|
| | mics II | and | Marke | et - | Marke | et - | 3.1 | | nd fac | ctors |
| | | Applicati | Conce | ept, | Conce | ept, | Mea | ning | that | |
| | | ons: Case | Chara | cteri | Chara | cteris | and | - | contri | bute |
| | | studies | stics | and | tics | and | Defi | nition. | to | and |
| | | on | short | and | short | and | 3.2 | Pigou's | detrac | ct |
| | | product | long r | un | long r | un | Wel | fare | from | |
| | | differenti | | | | | Ecor | nomics | long-t | term |
| | | ation, | Equili | briu | Equili | ibriu | 3.3 | Social | econo | omic |
| | | | m, l | Price | m, | Price | Wel | fare | growt | h. |
| | | pricing | Discri | min | Discri | imina | Func | ction. | CO5 | |
| | | policy by | ation | — | tion | — | 3.4 | | Apply | / |
| | | firm | Conce | pt | Conce | ept | Con | ditions | econo | omic |
| | | | and | | and T | ypes. | of | Pareto | reason | ning |
| | | | Types | | 1.3 | | Opti | mality | to | |
| | | | 1.3 | | Duop | oly – | | | under | stan |
| | | | Duopo | oly – | Conce | ept, | | | d | the |
| | | | Conce | ept, | | | | | opera | tion |



| Tesfe Dr. Avina | ्रमाग्र ममाग्रम्भ चतुरचंद , बारामती ash S. Jag | gtap | ।। सिध्दिरनेकान्तात्।। Anekant Education Society's TULJARAM CHATURCHAND COLLEGE of Arts, Science and Commerce, Baramati - 413102. Dist. Pune. Maharashtra, India. | | | | | | | |
|-----------------------|--|-----------|---|---------------|-------------------|-------------|-----------------|----------------|---------------|--|
| M.Sc. F PRINC | Ph.D. IPAL | | | | Empowe | ered Autono | mous Statu | s | | |
| -mail : principal.tco | college@gm | ail.com F | Religious I | Minority Inst | titute NA | AC Reaccred | ited 'A+' Grade | , CGPA 3.5 | 15 | |
| NAAC-S | SR | | Cyc | le IV | | 2019 - 2 | 2024 | | > . | |
| | | | | | | | | | - | |
| | | | | | Characteri | Characteris | | of an | | |
| | | | | | stics | tics | | economy. | | |
| | | | | | 1.4 | 1.4 | | CO6. | | |
| | | | | | Oligopoly | Oligopoly | | Understa | | |
| | | | | | - | – Concept, | | nd the | | |
| | | | | | Concept, | Characteris | | interacti | | |
| | | | | | stics | 1 5 Monon | | 011 between | | |
| | | | | | 1.5Monop | olistic | | the | | |
| | | | | | olistic | Competitio | | domestic | | |
| | | | | | Competiti | n - | | economy | | |
| | | | | | on - | Concept, | | and the | | |
| | | | | | Concept, | Characteris | | rest of | | |
| | | | | | Characteri | tics, short | | the | | |
| | | | | | stics, short | & long run | | world. | | |
| | | | | | & long run | Fauilibriu | | POI Researc | | |
| | | | | | Equilibriu | m. Selling | | h- | | |
| | | | | | m, Selling | cost- | | Related | | |
| | | | | | cost- | concept. | | Skills: | | |
| | | | | | concept. | 1.6 Perfect | | | | |
| | | | | | 1.6 | Competitio | | | | |
| | | | | | Perfect | n – | | | | |
| | | | | | Competiti | Concept, | | | | |
| | | | | | Concept | tics Price | | | | |
| | | | | | Characteri | determinati | | | | |
| | | | | | stics, | on in short | | | | |
| | | | | | Price | | | | | |
| | | | | | determina | | | | | |
| | | | | | tion n | | | | | |
| | | | | | short | | | | | |
| | | ECOSP | Macro | | 2.1 | 3.1 | 13 | CO3 | | |
| | | L2403 | Econo | | Meaning | Meaning | Principles | Understa | | |
| | | 22100 | mics II | | and Types | and | and Effects | nd the | | |
| | | | | | of | Features of | of Taxation | roles of | | |
| | | | | | Inflation | Trade | | fiscal | | |
| | | | | | 2.2 | Cycles | | and | | |
| | | | | | Causes | 3.2 Phases | | monetar | | |
| | | | | | and Effects of | OI Irade | | y policy | | |
| | | | | | Inflation | Cycles | | 111 | | |
| L | | | 1 | 1 | minution | 1 | 1 | | all PCU | |



| المحمد ا محمد المحمد المح | | | ।। सिध्दिरनेकान्तात्।। Anekant Education Society's TULJARAM CHATURCHAND COLLEGE of Arts, Science and Commerce, Baramati - 413102. Dist. Pune. Maharashtra, India. Empowered Autonomous Status Religious Minority Institute NAAC Reaccredited 'A+' Grade, CGPA 3.55 | | | | | | |
|--|------|-------------------|---|---|--|---|--------------------------|--|-------|
| | FYBC | UCBE1 | Micro | 1.Major | Types of | 3.3 Policy and Control of Trade Cycles- | Price of | business cycle. PO2 Effectiv e Citizens hip and Ethics: PO3 Social compete nce: PO4 Discipli nary Knowle dge: PO5 Personal and professi onal CO1: To | |
| | om | 11 UCBF1 11 | Econo mics I Bankin g and Fin. I | issues of Develop ment in India 2.Measur es for Populatio n Control Understa nding banking structure | Market Technolo gy in Banking | and supply determinati on Understand ing Indian economies state | factors of production | appraise students with various concepts of public revenue and expendit ure of the governm ent. CO2: To understa nd structure of financial sector | TURCO |



Anekant Education Society's

TULJARAM CHATURCHAND COLLEGE



Religious Minority Institute NAAC Reaccredited 'A+' Grade, CGPA 3.55

Dist. Pune. Maharashtra, India. Empowered Autonomous Status

Prof. Dr. Avinash S. Jagtap M.Sc. Ph.D. PRINCIPAL

NAAC-SSR

महाविद्यालय, बारामती

.-mail : principal.tccollege@gmail.com

Cycle IV

| | UCBE1 21 | Micro Econo mics II | Local applicati on | | | | CO3: To highlight basic economi c problem s |
|------------|---------------|----------------------------|--|-----------------------------------|--|---|---|
| | UCBF1 21 | Bankin g and Fin. II | 1.Functio ns of Banks 2.Method s of Remittan ces 3.Functio ns of RBI | Applicatio n of credit flow | 1.Major issues of Developme nt in India 2.Measures for Population Control | Modern banking | CO2: To appraise students with various concepts of Banking PO3 Social compete nce: |
| SYBc om | COMB E2303 | Macro Econo mics I | | | 1.1 Meaning, Nature and Scope of Macro Economics 1.2 Significanc e and Limitations of Macro Economics 2.1 Various Concepts of National Income | 4.1 Definitions and Evolution of Money 4.2 Functions of Money Deman d for Money 4.3 Supply of Money and Multiple Credit Creation by Commercia 1 Banks | CO3. Understa nd the roles of fiscal and monetar y policy in fighting recessio ns and inflation |
| | COMB F2306 | Bankin g and Fin. I | | 2.1 Micro finance. | 1.1 Public sectors Banks (SBI & | 3.1 NPA- Concept, Classificati | CO3. Students will be able to |



| المعلمة معلمة المعلمة معلمة المعلمة معلمة محلمة معلمة محلمة معلمة معلم معلمة معلمة معلمة معلمة معلمة م لمة معلمة معلمة مامة معلمة معلمة معلمة معلمة | TULJA of A | ।। सिध्दिरनेकान्तात्।। Anekant Education Society's TULJARAM CHATURCHAND COLLEGE of Arts, Science and Commerce, Baramati - 413102. Dist. Pune. Maharashtra, India. | | | | | | | |
|--|---------------------------------|---|---|---|---|--------|--|--|--|
| -mail : principal.tccollege@gmail.con | Religious Mi | Religious Minority Institute NAAC Responsedited (A+2 Crede CCPA 3 55 | | | | | | | |
| NAAC SSD | Cycl | NTV | 2010 | 2024 | | | | | |
| NAAC-SSK | Cych | - I V | 2019- | - 2024 | | | | | |
| | | 2.2 Paym banks 2.3 finan Bank | Nationaliza Nationaliza Nationaliza Nationaliza Nationaliza Nationaliza Nationaliza Banks Sectors Banks (Old & New) Classificat on & Features. 1.3 Cooperative e Bank (SCB, DCCB, PACS) Features. 1.4 Foreign banks in India- Functions. 4.3 Functions of RBI | e on and) Criteria. 3.2 s Identificati on and e Causes of NPA. d 3.3 Impact - of NPA. i 3.4 & Manageme nt of NPA. y s | understa nd the Structur e of Indian Banking and financial market as well PO2 Effectiv e Citizens hip and Ethics: PO3 Social compete nce: PO4 Discipli nary Knowle dge: PO5 Personal and professi onal | | | | |
| CO E24 | MB Macro 03 Econo mics II | | 2.1 Meaning and Type of Inflation 2.2 Cause and Effect of Inflation 4.3 Type of Taxation 4.4 Principles and Effect of Taxation | 1.1MeaningsandnConcept ofsValueofsnsnsnsn | CO5. Develop their understa nding and expertise in various matters relating to operatio | TURCIA | | | |



Anekant Education Society's

TULJARAM CHATURCHAND COLLEGE



Dist. Pune. Maharashtra, India.

Religious Minority Institute NAAC Reaccredited 'A+' Grade, CGPA 3.55

Empowered Autonomous Status

M.Sc. Ph.D. PRINCIPAL

NAAC-SSR

Prof. Dr. Avinash S. Jagtap

.-mail : principal.tccollege@gmail.com

262.26

Cycle IV

| | | | | | ns of a commer cial bank. |
|---------------|----------------------------|--|--|-----------------------------------|---|
| COMB F2406 | Bankin g and Fin. II | 1.1 Financial Inclusion- Concept and Need. 1.2 Various Initiatives for financial inclusion. 1.3 Role of Financial Inclusion 1.4 Challenge s and Opportuni ties of Financial Inclusion | 2.2 Structure of Developme nt Banks in India. 2.3 Role of developme nt Banks in India. 2.4 Progress and Limitations of Developme nt Banks in India. | 4.1 Basel Norms –II and III | CO1. The main outcome of this course is acquaint students with various aspects of financial system, role ,structur e, perform ance and the current problem s faced by the banking sector in India PO2 Effectiv e Citizens hip and Ethics: PO3 Social compete nce: |







| Prof. Dr. Avinash S. Jagtap M.Sc. Ph.D. PRINCIPAL | | | Il सिंध्देरनेकान्तात्।। Anekant Education Society's TULJARAM CHATURCHAND COLLEGE of Arts, Science and Commerce, Baramati - 413102. Dist. Pune. Maharashtra, India. Empowered Autonomous Status Religious Minority Institute NAAC Reaccredited 'A+' Grade , CGPA 3.55 Cycle IV 2019 - 2024 | | | | | | |
|---|--|-------------|--|--|---|--|---|---|--|
| | | ECO41 03 | Interna tional Econo mics I | 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 | internati onal trade. PO5 Personal and professi onal compete nce: PO6 Self- directed and Life- long learning: CO1: To understa nd the undercur rents behind the policy making and its impleme ntation. | |
| | | ECO41 04 | Indian Econo my Policy I | 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 Populatio n Control | Understand ing Indian economies state | Sector contributio n | CO3: To understa nd limitatio ns of Indian econom y PO1 Researc h- Related Skills: | |





Anekant Education Society's

TULJARAM CHATURCHAND COLLEGE

of Arts, Science and Commerce, Baramati - 413102.

Dist. Pune. Maharashtra, India. **Empowered Autonomous Status**

M.Sc. Ph.D. PRINCIPAL

NAAC-SSR

.-mail : principal.tccollege@gmail.com

Religious Minority Institute NAAC Reaccredited 'A+' Grade, CGPA 3.55 Cycle IV

| ECO42 01 | Micro Econo mics II | 1. Function s of Banks 2.Method s of Remittan ces 3.Functio ns of RBI | Factor remunerat ion | Price determinati on | Basic economic problems | CO4: To understa nd limitatio ns of Indian econom y PO3 Social compete nce: |
|-------------|---------------------------------------|--|--|--|--|---|
| ECO42 02 | Public Financ e II | 1.Measur es for Populatio n Control | Role of Governme nt in Organized Society | Role of private sector | Public expenditur e | CO6: To understa nd limitatio ns of Indian budget |
| 03 03 | Interna tional Econo mics II | Debate on Inclusive Growth | Debate on Inclusive Growth | to link between classical and modern theories | n of Indian Economy with the world in major economic Indexes | col: To understa nd the undercur rents behind the policy making and its impleme ntation. PO2 Effectiv e Citizens hip and Ethics: |
| ECO42 04 | Indian Econo my | 1.Major issues of Develop | 1.Major issues of Developm | Understand ing Indian economies state | India's Experience in Planning | CO6: To understa nd limitatio |





।। सिध्दिरनेकान्तात्।।

Anekant Education Society's

TULJARAM CHATURCHAND COLLEGE

of Arts, Science and Commerce, Baramati - 413102.

Dist. Pune. Maharashtra, India.

Empowered Autonomous Status

.-mail : principal.tccollege@gmail.com

NAAC-SSR

Cycle IV

2019 - 2024

Religious Minority Institute NAAC Reaccredited 'A+' Grade, CGPA 3.55

| | | Policy II | ment in India 2.Measur es for Populatio n Control | ent in India 2.Measure s for Populatio n Control | | ns of Indian econom y PO4 Discipli nary Knowle dge: |
|--------------------------------|-------------|--------------------------|--|---|---|--|
| MA II Econo mics (PG) | ECO53 01 | Macro Econo mics I | | | 1.2 Gross Domestic Product, Gross National Product, Net Domestic Product, Net National Product 1.5. National Accounts Statistics- system 2: Aggregate Demand 3: IS-LM Model 4.3 The Real Business cycle Theory 4.4 The Rational expectation s | CO1. Understa nd the basics of national income accounti ng. CO2. Underst and the causes and consequ ences of busines s cycles. PO2 Effectiv e Citizens hip and Ethics: PO3 Social compete nce: PO4 Discipli nary Knowle |
| | | | | | Revolution | dge: |



Anekant Education Society's

TULJARAM CHATURCHAND COLLEGE



of Arts, Science and Commerce, Baramati - 413102. Dist. Pune. Maharashtra, India.

Empowered Autonomous Status

.-mail : principal.tccollege@gmail.com

NAAC-SSR

Cycle IV

2019 - 2024

Religious Minority Institute NAAC Reaccredited 'A+' Grade, CGPA 3.55

| F0072 | | 115 | | New Classical Macroecon omics: Perfect Informatio n Rational Expectatio ns | | PO5 Personal and professi onal |
|-------------|--|--|--|--|---|--|
| ECO53 02 | Econo mic Growt h & Develo pment I | 1.1 Econ omic Gro wth and Deve lopm ent 1.2 Econ omic Gro wth and Inco me Distr ibuti on- Kuzn ets Hypo thesi s | 2.2 Obstacles to Economic Developm ent- Vicious Circle of Poverty, Various Constraint s | 1.3 Charac teristic s of an Under develo ped econo my 4.4 The Doctrine of Balanced and Unbalance d Growth | .4 Me asurement of Developme nt- Physical Quality of Life Index; Human Developme nt Index, GHDI, Gross National Happiness and Indices 1.5 Sus tainable Developme nt- MDGs and SDGs | CO 3 Endogeno us Growth Understa nding: Students will grasp the intricacie s of the New Endogeno us Growth Theory, distinguis hing between the models proposed by Arrow, Lucas, and Romar. PO2 Effectiv e Citizens hip and |



Ethics:

| Activity of the second | gtap | TULJ of Religious I Cyc | Arts, Sci Minority Inst | Anekan M CHA ience and Dist. Pu Empowe titute NA | ।। सिध्दिरनेकान्त t Educatio ATURC Commer une. Maharas ered Autonc AC Reaccred 2019 - 2 | ात्।। on Society's CHANI ce, Baran ottra, India. omous Statu lited 'A+' Grade 2024 | D COI nati - 413 s | LEGE 102. |
|---|-------------|----------------------------------|---|---|--|--|--|---------------------|
| | ECO53 03 | Agribu siness Eco I | 1.2 Role of agricultur e in Economi c Develop ment, 1.3 Changing phase of agricultur e in economic develop ment, | 1.4 Agricultur e as an industry, Complem entary between agricultur e and Industry. | | 4.1 Introduc tion: Lewis theory of labor 4.2 Mellor's and Boserup's Modl of Agricultura 1 Developme nt, Schultz's transformat ion of traditional agriculture. | PO3 Social compete nce: PO4 Discipli nary Knowle dge: PO5 Personal and professio nal CO4. Students will gain good comman d and understa nding of banking system and banks and will be able to perform tasks confiden tly. PO3 Social compete nce: PO4 Discipli nary Knowle dge: | |





Anekant Education Society's

TULJARAM CHATURCHAND COLLEGE

of Arts, Science and Commerce, Baramati - 413102.

Dist. Pune. Maharashtra, India.

Religious Minority Institute NAAC Reaccredited 'A+' Grade, CGPA 3.55

PRINCIPAL

NAAC-SSR

.-mail : principal.tccollege@gmail.com

Cycle IV

| | | | | | PO5 |
|-------|--------|------------|--|--------------|-------------|
| | | | | | Personal |
| | | | | | and |
| | | | | | professi |
| | | | | | onal |
| ECO53 | Resear | | | 4.1 Global | CO 3 |
| 04 | ch | 3.1Classi | | Informatio | Market |
| | Metho | fication | | n - Internet | Analysis: |
| | dology | and | | surfing, | The |
| | | Tabulatio | | downloadi | course |
| | | n. | | ng, blogs, | should |
| | | 3.2 | | mails. | equip |
| | | Graphs | | 4.2 Use of | students |
| | | and | | Word tools | with the |
| | | Diagrams | | 4.3 | skills to |
| | | • | | Presentatio | analyze |
| | | 3.3 | | n – (| agricultur |
| | | Measures | | Drawing on | al |
| | | of Central | | Slide) | markets, |
| | | Tendencie | | Power | including |
| | | s. Mean, | | Point | factors |
| | | median | | 4.4Comput | affecting |
| | | mode | | erized data | price |
| | | 3.4 | | processing- | volatility, |
| | | Dispersio | | Excel, | market |
| | | n & | | SPSS. | trends, |
| | | Correlati | | 4.5 | and the |
| | | on. | | Stages of | impacts |
| | | 3.5 | | report | of |
| | | Hypothes | | writing. | governme |
| | | is Testing | | | nt |
| | | Chi | | | policies |
| | | Square | | | and |
| | | test | | | internatio |
| | | | | | nal trade. |
| | | | | | CO 4 |
| | | | | | Agribus |
| | | | | | Iness |
| | | | | | value |
| | | | | | Chain: |
| | | | | | Students |
| | | | | | should |
| | | | | | gain |



| Transformer Trans | om Religious | ।। सिध्दिरनेकान्तात्।। Anekant Education Society's TULJARAM CHATURCHAND COLLEGE of Arts, Science and Commerce, Baramati - 413102. Dist. Pune. Maharashtra, India. Empowered Autonomous Status Religious Minority Institute NAAC Reaccredited 'A+' Grade, CGPA 3.55 | | | | | | | |
|--|--------------------------------|--|--|---|------|---|-------|--|--|
| NAAC-SSR | Су | cle IV | | 2019 - 2 | 2024 | | | | |
| | CO54 Macro Econo mics II | | 1 efinition of | 3.3 Money Multiplier Process, G | | insight into the various stages of the agribusi ness value chain, includin g producti on, processi ng, marketin g, and distributi on. They should understa nd how different entities in the value chain interact and the economi c implicati ons of these interacti ons. CO 4 Global Context: | | | |
| | | Mu fun of co | oney, nctions money, ncept of | Some simplifying assumption s, | | By analyzing empirical models, | TURCA | | |











| المعلم وتعلم المعلم المعلم المعلم المعلم | ।। सिध्दिरनेकान्तात्।। Anekant Education Society's TULJARAM CHATURCHAND COLLEGE of Arts, Science and Commerce, Baramati - 413102. Dist. Pune. Maharashtra, India. | | | | | | | | |
|--|---|---|---|--|--|--|--|--|--|
| PRINCIPAL | | Empowered Autonomous Status | | | | | | | |
| -mail: principal.teconege@gmail.com | Religious Minority Institute | NAAC Reaccredited 'A+' Gr | ade, CGPA 3.55 | | | | | | |
| NAAC-SSR | Cycle IV | 2019 - 2024 | | | | | | | |
| | | agriculture finance of agriculture of agriculture finance, Commerci al Bank, 1.4 ministeria Regional Rural Bank, NABARD, Lead Bank | re the 4 fundame ntal ti principle ts s and on concepts e, of agricultu 1 ral economi cs, e includin g supply and demand, price determin ation, market structure s, and the role of agricultu re in the overall economy 2 CO 3 Market Analysis : The course should equip students with the skills to analyze agricultu ral markets, includin g factors | | | | | | |
| | | 1 1 | TURCH | | | | | | |



| المعالم ال لمعالم المعالم الم لمعالم المعالم الم لمعالم المعالم معالم معالم محمالم محمم معالم معا | | gtap | ।। सिध्दिरनेकान्तात्।। Anekant Education Society's TULJARAM CHATURCHAND COLLEGE of Arts, Science and Commerce, Baramati - 413102. Dist. Pune. Maharashtra, India. Empowered Autonomous Status | | | | | | | | | |
|--|-----------|-------------|---|----------------|----------------|----------------|-------------------------|---|-------|--|--|--|
| mail : principal.tee | ollege@gm | ail.com] | Religious N | Minority Inst | itute NA | AC Reaccred | ited 'A+' Grade | , CGPA 3.5 | 5 | | | |
| NAAC-S | SR | | Cvc | le IV | | 2019 - 2 | 2024 | | | | | |
| | | | | | | | | | | | | |
| | | ECO54 04 | Moder | 1.1 Nature, | 1.4 Balance | 2.6 Reserve | 4.3 Forms of foreign | affecting price volatility , market trends, and the impacts of governm ent policies and internati onal trade. processi ng, marketin g, in agribusi ness, such as the economi c implicati ons of sustaina ble farming practices and the use of resource s. CO2. They | | | | |
| | | | Bankin | structure, | sheet of a | Bank of | capital – | will be | | | | |
| | | | g | Function | commerci | India | Foreign | able to | | | | |
| | | | | s and role | al bank. | 2.3 | Direct | describe | | | | |
| | | | | of | | Changing | Investment | fundame | | | | |
| L | | | | tinancial | | trends in | | ntal | TURCH | | | |



| rof. Dr. Avinash S. Jagtap M.Sc. Ph.D. PRINCIPAL mail : principal.tccollege@gmail.com | ।। सिध्दिरनेकान्तात्।। Anekant Education Society's TULJARAM CHATURCHAND COLLEGE of Arts, Science and Commerce, Baramati - 413102. Dist. Pune. Maharashtra, India. Empowered Autonomous Status Religious Minority Institute NAAC Reaccredited 'A+' Grade , CGPA 3.55 Cycle IV 2019 - 2024 | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|
| | system in economic develop ment. | banking sector[FDI], Pros andconcepts behindsince 1991.cons for modernmodern2.5FDIin e-ForeignIndia, and theirbanking/ banks inIndiaand Regulationbanking/ bankingimpact on impact on investment sectors - Foreign promotion3.1Meanin g , TypesBoard 4.5and g , Typesand role of IMF, IBRD, Financial Institutions in India- 3.2 Roleof the Non- banking Financial Institutions in India- 3.4IDA, IFCInstitutions in India- 3.4Functions of Non- banking Financial Institutions in India- in India- 3.43.4Functions of Non- banking | | | | | | | | |





.-mail : principal.tccollege@gmail.com

NAAC-SSR

।। सिध्दिरनेकान्तात्।।

Anekant Education Society's

TULJARAM CHATURCHAND COLLEGE

of Arts, Science and Commerce, Baramati - 413102.

Dist. Pune. Maharashtra, India.

Empowered Autonomous Status

Religious Minority Institute NAAC Reaccredited 'A+' Grade, CGPA 3.55

Cycle IV

| Program me | Cours | Course Title | Topic in the syllabus which has relevance to the developmental needs. | | | | POs, PSO's & COs |
|---------------|---------------|---|---|--------------|-----------------------------|------------|--|
| | Code | | Loca l | Regiona l | National | Glob al | |
| T.Y.B.A. | Gener al 3 | Economic Developme nt & Planning | | | | | |
| | Specia 13 | Internation al Economics | | | | | Export compositio n |
| | Specia 14 | Public Finance | | | Budget | | |
| T.Y.B. Com | 353 | Indian & Global Economic Developme nt | | | Sectoral developme nt | | CO 4. To understand fundamenta ls of modern financial system. CO 3To understand the recent trends and developmen ts in banking system. |
| | 355-A | Banking and Finance- Special Paper I | Credi t Flow | | RBI | | CO.3. To understand fundamenta ls of modern financial system. CO.4 To provide the knowledge of various financial and non- |





NAAC-SSR

.-mail : principal.tccollege@gmail.com

।। सिध्दिरनेकान्तात्।।

Anekant Education Society's

TULJARAM CHATURCHAND COLLEGE

of Arts, Science and Commerce, Baramati - 413102.

Dist. Pune. Maharashtra, India.

Empowered Autonomous Status

Religious Minority Institute NAAC Reaccredited 'A+' Grade, CGPA 3.55 Cycle IV

| | | | | | financial |
|-------|----------|-------|-------|--|---------------|
| | | | | | institutions. |
| 355-В | Banking | Credi | NABAR | | CO. 4To |
| | and | t | D | | understand |
| | Finance- | suppl | | | fundamenta |
| | Special | У | | | ls of |
| | Paper II | | | | modern |
| | | | | | financial |
| | | | | | system. |
| | | | | | CO 6 To |
| | | | | | understand |
| | | | | | the recent |
| | | | | | trends and |
| | | | | | developmen |
| | | | | | ts in |
| | | | | | banking |
| | | | | | system. |





ENGLISH

| Progra | Cours | Course | POs, PSO's & | | | | |
|--------------------------------|-------------------|---|--------------------------------|------------------------------|---------------------------------------|--------------------------------------|---|
| mme | e Code | The | Local | National | Regio nal | s Global | CUS |
| SYBA [semeste r-1] | ENG CO 2101 | Compulsor y English | Vocabulary (12Lecture s) | | Voca bular y (12Le ctures | Vocabu lary (12Lect ures) | CO1) Students learn grammar effectively |
| | Poetry | | | O Captain! My Captain! | | O Captain ! My Captain ! | PO1) To familiarize students with excellent pieces of prose and poetry in English |
| S.Y.B.A. (semester I | ENGF E 2105 | Advanced Writing Skills and Introductio n to Electronic Media | | Letter writing | Letter writin g | | PO2) Enhancing students' ability to communicate in written mode |



| सिद्धर्भववनसर अन्ध्रेमा प्रमुखेमान सीसावटीक तुळ जाराम चतुरचंद महाविद्यालय, बारामती | 1 | ।। सिध्दिरनेकान्तात्।। Anekant Education Society's TULJARAM CHATURCHAND COLLEGE of Arts, Science and Commerce, Baramati - 413102. | | | | | | | |
|---|-----------------------|--|----------------------|-------------------------------|--------------------------------------|---------------------------------|---|--------|--|
| Prof. Dr. Avinash S. Jagta M.Sc. Ph.D. | p | | Di | st. Pune. Mah | arashtra | , India. | | | |
| PRINCIPAL | om R | eligious Minor | Emp ity Institute | NAAC Read | onomo | 'A+' Grade | CGPA 3 55 | | |
| NAAC-SSR | | Cycle I | V | 201 | 9 - 202 | 4 | | | |
| | | | | | | | | | |
| | Comm unicati on | | | Types of Communica tion | Types of Com muni cation | | PO3) Acquainting students to career | | |
| | | | | | | | options in electronic media and equipping | | |
| SYBA | FNGF | Oral | | Non-Verbal | Non- | Non- | them to be prepared for the same | or | |
| (Semeste r- I) | E 2106 | Communica tion in English | | Communica tion | Verba l Com muni cation | Verbal Comm unicati on | develop communicative competence of the students. | e | |
| | | | | Group Discussion | Grou p Discu ssion | Group Discuss ion | PO4) Students will speak English without hesitation. | | |
| S.Y. B.A (Semeste r-I) | ENG GE 2102 | Study of English Language and Literature | | Linguistics: | Lingu istics: | Linguis tics: | CO4) To develop integrated view about language and literature in them. | V Ə | |
| | Lingui stics | | | Socio- linguistics | Socio - lingui stics | Socio- linguist ics | CO5) To introduce the basic units of language. | | |



Anekant Education Society's

TULJARAM CHATURCHAND COLLEGE

of Arts, Science and Commerce, Baramati - 413102.

Dist. Pune. Maharashtra, India. **Empowered Autonomous Status**

M.Sc. Ph.D. PRINCIPAL

Prof. Dr. Avinash S. Jagtap

ताराम महाविद्यालय, बारामती

NAAC-SSR

.-mail : principal.tccollege@gmail.com

Cycle IV

Religious Minority Institute NAAC Reaccredited 'A+' Grade, CGPA 3.55

| S.Y. B.A (Semeste r- I) | ENG SPL 2103 | Special Paper I (S- 1) | Theory of Drama | Theor y of Dram a | | PO5) To acquaint and familiarize the students with the terminology in Drama Criticism |
|-------------------------------|--------------------|------------------------------------|---------------------------|-----------------------------------|-------------------------------|--|
| | Play | | A Doll's House | | A Doll's House | CO6) To develop interest among the students to appreciate and analyze drama. |
| S.Y. B.A (Semeste r- I) | ENG SPL 2104 | Appreciatin g Poetry (S- II) | | Theor y of Poetr y | Theory of Poetry | CO7) To acquaint and familiarize the students with the terminology in poetry criticism. |
| | Poetry | | William Wordswort h | Willi am Word swort h | Willia m Words worth | PO6) To develop linguistic competence and communicative skills among the students |
| SY.B.SC (Semeste r- I) | ENG CO 2101 | Compulsor y English | Vocabulary | Voca bular y | Vocabu lary | To develop integrated view about language and literature in them. |
| | | Grammar | Grammar | | Gramm ar | To introduce relevance and function of Grammar. |



।। सिध्दिरनेकान्तात्।। Anekant Education Society's **TULJARAM CHATURCHAND COLLEGE** ताराम चतरचंद महाविद्यालय, बारामती of Arts, Science and Commerce, Baramati - 413102. Prof. Dr. Avinash S. Jagtap Dist. Pune. Maharashtra, India. M.Sc. Ph.D. **Empowered Autonomous Status** PRINCIPAL .-mail : principal.tccollege@gmail.com Religious Minority Institute NAAC Reaccredited 'A+' Grade, CGPA 3.55 NAAC-SSR Cycle IV 2019 - 2024

| S.Y.B.S c (Semeste r-I) | ENG CO 2101 | Technical English | An Old Woman – | | An Old Wom an – | | PO) The student s learn a few masterp ieces of English Poetry and |
|----------------------------------|-------------------|--|--|--|--|---|--|
| | | Vocabulary | | Vocabulary | | Vocabu lary | Prose CO) To teach grammar to incorporate in English. |
| M.AII | ENG 5101 | Indian Writing in English (Core Paper) | R K Narayan- The Bachelor of Art | R K Narayan- The Bachelor of Art | R K Naray an- The Bach elor of Art | R K Naraya n- The Bachel or of Art | PSO1) The students get familiar with the major movements and figures of Indian English Literature |
| | | | Amitav Ghosh-The Shadow Lines | Amitav Ghosh-The Shadow Lines | | | CO8) To instill human values among students. |



| المحمولة المحمول | ap com R | ।। सिध्दिरनेकान्तात्।। Anekant Education Society's TULJARAM CHATURCHAND COLLE of Arts, Science and Commerce, Baramati - 413102. Dist. Pune. Maharashtra, India. Empowered Autonomous Status Religious Minority Institute NAAC Reaccredited 'A+' Grade , CGPA 3.55 Cycle IV 2019 - 2024 | | | | | | |
|--|-------------|--|-------------------------------------|--|---|---|---|--|
| M.AII | ENG 5102 | English Language and Literature Teaching | Theories of Language Learning | Theories of Language Learning | Theor ies of Lang uage Learn ing | Theorie s of Langua ge Learnin g | PSO2) -To acquaint them with different approaches, methods and techniques of teaching English language and literature | |
| M.AII | ENG 5103 | Theory Drama in English | English in India | English in India William Shakespear e: Romeo and Juliet | Engli sh in India Willi am Shake spear e: Rome o and Juliet | Willia m Shakes peare: Romeo and Juliet | CO9) To sensitize the students to the major issues in ELT in the Indian Context CO10) To acquaint students with the richness of Greek and Elizabethan drama, especially Sophocles, Shakespeare, Marlowe and | |


| anii : principal.tecollege@gmail.com | Art TULJARAMC Art TULJARAMC of Arts, Science Avinash S. Jagtap M.Sc. Ph.D. PRINCIPAL tripal.tecollege@gmail.com C-SSR Cycle IV | | | | ।। सिध्दिरनेकान्तात्।। nekant Education Society's CHATURCHAND COLLEGH e and Commerce, Baramati - 413102. Dist. Pune. Maharashtra, India. npowered Autonomous Status NAAC Reaccredited 'A+' Grade, CGPA 3.55 | | | | | |
|--------------------------------------|--|---|--------------------------------------|--|---|--|--|--|--|--|
| NAAC-SSR | Cycle I | V | 201 | 9 - 202 | 24 | // // | | | | |
| | Play | | Look Back in Anger | Look Back in Ange r | Look Back in Anger | PSO3) To create literary sensibility for appreciation in students and expose them to artistic and Innovative use of language by writers and to various worldviews | | | | |
| M.AII EN 51 | NG American 04 Literature | | Henry David Thoreau: Walden | Henr y David Thore au: Wald en | Henry David Thorea u: Walden | CO11) To introduce American sensibilities through literature. | | | | |
| | Poetry | | | Kober t Frost: | Robert Frost: | cO12) To enhance literary and linguistic competence of students. | | | | |

P





GEOGRAPHY

| Progra | Cour | Course Title | Topic in the | Topic in the syllabus which has relevance t | | | | | | |
|--------|-------------|-------------------------------------|----------------------------------|---|---------------------------------|---------------------------------|--|--|--|--|
| mine | Code | Inte | Local | National | Regional | Global | u 005 | | | |
| | couc | | Locui | 1 (utionui | regionar | Giobai | | | | |
| | GEO 1101 | Physica 1 Geogra phy | 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 Geogra phy | Migratio n and its Effects | Populatio n Explosio n | Populatio n Explosio n | Populatio n Explosio n | CO-1. Students will be able to understand the causes and strategies to tackle with migration problem CO-2. Students can develop an d implement different policies to control population explosion. | | | |
| SYBA | GEO2 301 | Environ ment Geogra phy- I | Ecosyste m, Pollution | Ecosyste m, Pollution | Ecosyste m, Pollution | Ecosyste m, Pollution | CO-1 Studen ts should be able to integra te variou | | | |



| Trof. Dr. Avinash S. Jagtap M.Sc. Ph.D. PRINCIPAL -mail : principal.tccollege@gmail.com | TULJARAM of Arts, Scien Religious Minority Institut Cycle IV | ।। सिध्दिरनेकान्तात्।। Anekant Education Society's TULJARAM CHATURCHAND COLLEGE of Arts, Science and Commerce, Baramati - 413102. Dist. Pune. Maharashtra, India. Empowered Autonomous Status Religious Minority Institute NAAC Reaccredited 'A+' Grade , CGPA 3.55 Cycle IV 2019 - 2024 | | | | | | | |
|--|---|---|--|--|--|--|--|--|--|
| GE 302 | O2 Geogra phy of Mahara shtra prone areas | - Flood CO-1 and drought prone areas - Flood CO-1 and drought prone areas CO-1 and drought prone areas case and drought prone areas case and drought prone areas case and drought prone areas | | | | | | | |



| Trof. Dr. Avinash S. Jagtap M.Sc. Ph.D. PRINCIPAL | TULJARA of Arts, S Religious Minority J Cycle IV | Aneka AMCH Science and Dist. 1 Empow Institute N | ।। सिध्दिरनेका nt Educat ATUR d Commo Pune. Mahar rered Autor AAC Reaccr 2019 | म्तात्।। ion Socie CHA erce, Bar ashtra, Indi nomous St redited 'A+' - 2024 | ety's ND COI ramati - 413 a. tatus Grade, CGPA 3.5 | LEGE 102. |
|---|---|--|--|--|---|---------------------|
| GEC 303 | D2 Practica 1 Geogra phy Ferviron 1 D2 Environ 1 Geogra phy Ferviron 1 D3 Environ 1 D4 Ferviron 1 D5 Ferviron 1 D6 Ferviron 1 D7 Ferviron 1 D8 Ferviron 1 D9 Ferviron 1 D9 Ferviron 1 D9 Ferviron 1 D1 Ferviron 1 D2 Ferviron 1 D3 Ferviron 1 D4 Ferviron 1 D5 Ferviron 1 D6 Ferviron 1 D7 Ferviron 1 D8 Ferviron 1 D9 Ferviron 1 Ferviron 1 Ferviron 1 < | Projectio n Environ mental Problems and g Planning | Environ mental Problems and Planning | Projectio n Environ mental Problems and Planning | ht. CO-2 Studen ts will learn the strateg ies to cope with these disaste rs. CO-1 Students can able to identify any map scale and projection. They can also know which projection is suitable for given region CO- 1 Stude nts aware about Enviro nment issues. | |
| GE0 403 | D2 Practica Advance 1 d Geogra Techniq phy es Mappin | e Advance d u Techniqu in es in g Mapping | Advance d Techniqu es in Mapping | Advance d Techniqu es in Mapping | CO-11 Develop practical knowledge and application of | |



| Prof. Dr. Avina M.Sc. 1 PRINC C-mail : principal.tet NAAC-S | des site verseer structure des site verseer structure of. Dr. Avinash S. Jagtap M.Sc. Ph.D. PRINCIPAL ail : principal.tecollege@gmail.com NAAC-SSR | | | ।। सिध्दिरनेकान्तात्।। Anekant Education Society's TULJARAM CHATURCHAND COLLEG of Arts, Science and Commerce, Baramati - 413102. Dist. Pune. Maharashtra, India. Empowered Autonomous Status Religious Minority Institute NAAC Reaccredited 'A+' Grade, CGPA 3.55 Cycle IV 2019 - 2024 | | | | | | | |
|---|--|-------------|---|---|--|--|--|---|-------------|--|--|
| | | GEO3 501 | Geogra phy of Touris m | Role of transport ation and communi cation in tourism | Role of transport ation and communi cation in tourism | Role of transport ation and communi cation in tourism | Role of transport ation and communi cation in tourism | cartographica l techniques. CO-2 To make students aware of the new techniques, accuracy and skills of Map Making. CO- 1Students will understand importance of transportatio n and communicati on in tourism | | | |
| | TYBA | GEO3 603 | Practica l in statistic al techniq ues | 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 secondary data collection, analysis and interpretation | | | |
| | MA I Geogra phy (PG) | GEO 4102 | Principl es of Climato logy | Acid Precipitat ion, Global Warming | Climate Change | Climate change | Climate Change | CO-1 Students will able to understand the causes | ATURCIAL ST | | |



| rof. Dr. Avinash S. Jag M.Sc. Ph.D. PRINCIPAL DRINCIPAL MAAC-SSR | tap il.com | ।। सिध्दिरनेकान्तात्।। Anekant Education Society's TULJARAM CHATURCHAND COLLEG of Arts, Science and Commerce, Baramati - 413102. Dist. Pune. Maharashtra, India. Empowered Autonomous Status Religious Minority Institute NAAC Reaccredited 'A+' Grade , CGPA 3.55 Cycle IV 2019 - 2024 | | | | | | |
|--|---------------|---|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--|--|
| | GEO4 104 | Principl es of Populat ion and Settlem ent Geogra phy | Populatio n Dynamic s | Populatio n Dynamic s | Populatio n Dynamic s | Populatio n Dynamic s | global warming, climate change and acid precipitation. CO-2. Students can find out the remedies to control consequence s of such calamities 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 and its role in population and its role in population policies CO-3 Concepts of settlement patterns and types are well understood by students. CO-4 Students are | |





Anekant Education Society's

TULJARAM CHATURCHAND COLLEGE



Religious Minority Institute NAAC Reaccredited 'A+' Grade, CGPA 3.55

Dist. Pune. Maharashtra, India. Empowered Autonomous Status

Prof. Dr. Avinash S. Jagtap M.Sc. Ph.D. PRINCIPAL

NAAC-SSR

.-mail : principal.tccollege@gmail.com

तुळजाराम चतुरचेद महाविद्यालय, बारामती

Cycle IV

| | | | | | | warning |
|------|-----------|------------|------------|-----------|-----------|----------------|
| | | | | | | system for |
| | | | | | | natural |
| | | | | | | disaster like |
| | | | | | | Tsunami, |
| | | | | | | Earthquake. |
| GEO | Practica | Advance | Advance | Advance | Advance | CO-1. |
| 4205 | 1 in | surveying | surveying | surveying | surveying | Students will |
| | Survevi | Techniqu | Techniqu | Techniqu | Techniqu | able to carry |
| | ng | es | es | es | es | out the |
| | 0 | | | | | survey for |
| | | | | | | local. |
| | | | | | | regional and |
| | | | | | | national level |
| | | | | | | administrativ |
| | | | | | | e authorities |
| | | | | | | for different |
| | | | | | | purpose like |
| | | | | | | planning of |
| | | | | | | town. |
| | | | | | | construction |
| | | | | | | of roads, |
| | | | | | | bridge etc. |
| GEO4 | Practica | Correlati | Correlati | | | CO-1 |
| 214 | 1 of | on, | on, | | | Students are |
| | Statistic | Inferentia | Inferentia | | | able to apply |
| | al | 1 | 1 | | | various |
| | Techniq | Statistics | Statistics | | | descriptive |
| | ues for | | | | | and |
| | Geogra | | | | | inferential |
| | phy | | | | | techniques |
| | - | | | | | on |
| | | | | | | geographical |
| | | | | | | data. |
| | | | | | | CO-2. |
| | | | | | | Students will |
| | | | | | | enable to |
| | | | | | | correlate |
| | | | | | | different |
| | | | | | | geographical |
| | | | | | | data. |





S

S

S

S



Students can

implement different policies for sustainable development of watershed.



HINDI

| Program | Course | Cours | Topic in t | POs, | | | |
|------------|--------------|---------------------|----------------------------|-------------------------|----------------------------|-----------------------------|------------------------------------|
| me | Code | e Title | relevance | to the dev | elopmenta | l needs | PSO's & |
| | | | Local | Nationa | Regiona | Global | COs |
| | | | | 1 | 1 | 30 | |
| B.A. Hindi | FYBA | 1) हिंदी समामन्य | स्थानाय गणगंगिकताः | राष्ट्राय णणगंगिकताः | क्षत्राय णणगंगिकताः | वाश्वक ग्रागंगिकताः | कायक्रम क परिणाम |
| | 1) HIN110 | सामान्य | प्रासागकता. गेगचंद की " | त्रासागकता. माखनलाल | प्रासागकता. गेणचंद की " | त्रासागकता. हो गई है पीर | (POs): |
| | 1/ | | प्रमयद का गंज गमोशम" | चतुर्वेदी की | प्रमयद का गंज्ञ गमोशम" | (गजल) - | (1 05). PO2:- प्रभावी |
| | HIN120 | | पप परमवर कहानी और | 'पुष्प की | पप परमवर कहानी | <u>द</u> ुष्यंतकुमार | नागरिकता और |
| | 1 | | पंचलाइट | अभिलाषा' | पंचलाइट | 5 5 | नैतिकता: |
| | | | (कहानी) | कविता | (कहानी) | | सहानुभूतिपूर्ण ———————————— |
| | | | - | | - | | सामा।जक सराकार और समानता |
| | | | फणीश्वरनाथ रेग्ण रुपनि | | फणीश्वरनाथ रेज्ज जन्मीज | | केंद्रित राष्ट्रीय |
| | | | रणु आाद स्थानीय | | रणु ग्रामाण लोगों की | | विकास का प्रदर्शन |
| | | | संदर्भों के | | संस्कृति और | | करना, नैतिक और |
| | | | लिए | | परंपराओं के | | नैतिक मुद्दों के बारे |
| | | | अत्यधिक | | बारे में | | में जागरूक जगाम्बर रो |
| | | | प्रासगिक है। | | जानकारी मनम जन्मी | | जागरूकता क साथ कार्य करने |
| | | | | | प्रदान करता हैं। | | और पेशेवर |
| | | | | | | | नैतिकता और |
| | | | | | | | जिम्मेदारी के प्रति |
| | | | | | | | प्रतिबद्ध होने की भगरण |
| | | | | | | | क्षमत॥ पाठयक्रम परिणाम |
| | | | | | | | (COs): |
| | | | | | | | CO1) राष्ट्रीय |
| | | | | | | | ऐक्य, सामाजिक |
| | | | | | | | उत्तरदायित्व, |
| | | | | | | | वैज्ञानिकता आदि —— |
| | | | | | | | मूल्या क प्रात कात्रों का ध्यान |
| | | | | | | | आकर्षित करना। |
| B.Com | FYBCo | हिंदी | हार की जीत | महाशूद्र | महाशूद्र | महाशूद्र | कार्यक्रम के |
| Hindi | m | सामान्य | (कहानी) - | (कहानी) - | (कहानी) - | (कहानी) - | परिणाम |
| | 2) | | सुदर्शन | मोहनदास | मोहनदास | मोहनदास | (POs): |
| | HIN110 | | | नैमिशराय | नैमिशराय | नैमिशराय | PO2:- प्रभावी |
| | 1/ | | | | | | नागारकता आर ौतिन्न ः |
| | | | | | | | नातकता: |



| Faller base | | | | 1 | 11 Anekant | सिध्दिरनेकान्त Educatio | ात्।। on Societ | y's | |
|---------------------------------|--------------------------|--|------------------|--|---|---|---|---|--------|
| अवेकांत एउप्रकेलन तुळजाराम च | ्र ओसापटीचे निरचंद | TU | LJA | RAM | CHA | TURC | CHAN | ID COI | LEGE |
| महाविद्यालय, | बारामती | | ofArt | s, Scien | ce and (| Commer | ce, Bara | amati - 413 | 102. |
| Prof. Dr. Avinas M.Sc. Ph | sh S. Jagtap h.D. | | | | Dist. Pun | e. Maharas | shtra, India | | |
| PRINCI | PAL | | | | mpower | ed Autono | omous Sta | tus | - |
| -mail : principal.tee | ollege@gmail.con | 1 Religi | ous Mino | rity Institute | | C Reaccred | lited 'A+' Gi | ade, CGPA 3.5 | |
| NAAC-SS | SR | | Cycle I | V | | 2019 - | 2024 | | |
| | B.A. Hindi | HIN120 1 (C) SYBA 1) HIN 2301/ 2401 | सामान्य हिंदी | खेल (कहानी) - जैनेंद्र कुमार गाँव के लड़के (कविता)- सुमित्रानंदन पंत। विज्ञापन लेखन, वृत्तांत लेखन, साक्षात्कार | मनुष्यता — अलीक (कविता) (कविता) बंधर (कहानी) - अल्पना मिश्र गाँव के लड़के (कविता)- सुमित्रानंदन पंता विज्ञापन लेखन, वृत्तांत लेखन, साक्षात्कार | मनुष्यता – अलीक (कविता) (कविता) चंद्रधर शर्मा गुलेरी गाँव के लड़के (कविता)- सुमित्रानंदन पंत। विज्ञापन लेखन, वृत्तांत लेखन, साक्षात्कार | मनुष्यता – अलीक (कविता) (कविता)- चंद्रधर शर्मा गुलेरी गाँव के लड़के (कविता)- सुमित्रानंदन पंत। विज्ञापन लेखन, वृत्तांत लेखन, साक्षात्कार | सहानुभूतिपूर्ण सामाजिक सरोकार और समानता केंद्रित राष्ट्रीय विकास का प्रदर्शन करना, नैतिक और नैतिक मुद्दों के बारे में जागरूक जागरूकता के साथ कार्य करने और पेशेवर नैतिकता और जिम्मेदारी के प्रति प्रतिबद्ध होने की क्षमता। पाठ्यक्रम परिणाम (COs): CO1) हिंदी के गद्य एवं पद्य के प्रतिनिधि रचनाकारों का परिचय देना। CO2) छात्रों की सर्जनात्मक शक्ति का विकास कराना। 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 व्यक्त करें। वास्तविक और आभासी मीडिया में खुद को प्रभावी | |
| L | | | | 1 | 1 | L | L | ~ | JURCHA |



| المحلة المحلة | ।। सिध्दिरनेकान्तात्।। Anekant Education Society's TULJARAM CHATURCHAND COLLEGE of Arts, Science and Commerce, Baramati - 413102. Dist. Pune. Maharashtra, India. Empowered Autonomous Status | | | | | | |
|---|--|--|---|--|--|--|--|
| NAAC-SSR | Cycle IV | 2019 - 2024 | | | | | |
| B.A. Hindi | 2) HIN काव्यशास्त्र काव्य की 2302/ परिभाषा, काव्य के 2402 तत्व, काव्य के तत्व, काव्य के तत्व, काव्य के तत्व, काव्य के तत्व, काव्य के प्रोणजन भाव्य के नाव्य के | काव्य की काव्य की काव्य की काव्य की काव्य की परिभाषा, परिभाषा, परिभाषा, परिभाषा, परिभाषा, परिभाषा, परिभाषा, काव्य के | ढंग से अभिव्यक्त करने के लिए भाषाई 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/साक्षात्का र, रिपोर्ट लेखन आदि हिंदी भाषा के व्यावहारिक क्षेत्रों से परिचित कराना। कार्यक्रम के परिणाम (POs): - PO8 :- आलोचनात्मक सोच और समस्या समाधान: आलोचनात्मक सोच के कौशल का प्रदर्शन करें और अपने सामाजिक परिवेश में स्थित समस्याओं से निपटने, व्यवहार्य समाधान प्रस्तावित करने और इसके कार्यान्वयन में | | | | |



| rof. Dr. Avinash S. Jagtap M.Sc. Ph.D. PRINCIPAL mail : principal.tecollege@gmail.com | TU Religio | ।। सिच्दिरनेकान्तात्।। Anekant Education Society's TULJARAM CHATURCHAND COLLEGE of Arts, Science and Commerce, Baramati - 413102. Dist. Pune. Maharashtra, India. Empowered Autonomous Status Religious Minority Institute NAAC Reaccredited 'A+' Grade, CGPA 3.55 | | | | | | | |
|--|-------------------------|---|---|---|--|---|---|--|--|
| NAAC-SSR | 3) HIN 2303/ 2403 | उपन्यास, नाटक तथा मध्ययुगीन काव्य | एक पत्नी के नोट्स - ममता कालिया (उपन्यास) महाभोज - मन्नू भंडारी (नाटक) | एक पत्नी के नोट्स - ममता कालिया (उपन्यास) महाभोज - मन्नू भंडारी (नाटक) | कबीर के दोहे सूरदास के पद रहीम के दोहे बिहारी के दोहे | एक पत्नी के नोट्स - ममता कालिया (उपन्यास) महाभोज - मन्नू भंडारी (नाटक) | 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 प्रयोजनों का ज्ञान कराना। कार्यक्रम के परिणाम (POs): - PO2:- प्रभावी नागरिकता और नैतिकता: सहानुभूतिपूर्ण सामाजिक सरोकार और समानता केंद्रित राष्ट्रीय विकास का प्रदर्शन करना, नैतिक और नैतिक मुद्दों के बारे में जागरूक जागरूकता के साथ कार्य करने और पेशेवर नैतिकता और नैतिकता और नैतिक ता के साथ कार्य करने और पेशेवर नैतिकता और जिम्मेदारी के प्रति प्रतिबद्ध होने की क्षमता। पाठ्यक्रम परिणाम (COs): - CO1) मध्ययुगीन संत एवं भक्तों के काव्य से | | |





।। सिध्दिरनेकान्तात्।।

Anekant Education Society's

TULJARAM CHATURCHAND COLLEGE

of Arts, Science and Commerce, Baramati - 413102.

Dist. Pune. Maharashtra, India.

Empowered Autonomous Status

-mail : principal.tccollege@gmail.com Religious Minority Insti

Cycle IV

NAAC-SSR

Religious Minority Institute NAAC Reaccredited 'A+' Grade, CGPA 3.55

| | | | | | | | छात्रा का पाराचत कराना। CO2) हिंदी उपन्यास एवं नाटक के आस्वादन की क्षमता विकसित करना। |
|------------|------------------------------|--|--|--|--|---|---|
| B.A. Hindi | TYBA 1) 3097 | सामान्य हिंदी (G-3) | सृजन संदर्भ और मैं (आत्मकथां | सृजन संदर्भ और मैं (आत्मकथां | सृजन संदर्भ और मैं (आत्मकथां | सृजन संदर्भ और मैं (आत्मकथांश | कार्यक्रम के परिणाम (POs): - |
| | | | (जारगय) श) साए में धूप (गज़ल) - दुष्यंतकुमार | (जालाकवा) श) साए में धूप (गज़ल) - दुष्यंतकुमार | (जातपत्रम) श) साए में धूप (गज़ल) - दुष्यंतकुमार | (जारगयगरा)) साए में धूप (गज़ल) - दुष्यंतकुमार | (1 03): पाठ्यक्रम परिणाम (COs): - |
| B.A. Hindi | TYBA 2) 3098 | हिंदी साहित्य का इतिहास (S-3) | भक्तिकाल | भक्तिकाल आधुनिक काल | भक्तिकाल आधुनिक काल | भक्तिकाल आधुनिक काल | कार्यक्रम के परिणाम (POs): - पाठ्यक्रम परिणाम (COs): - |
| B.A. Hindi | TYBA 3) 3099 | भाषा विज्ञान (S-4) | 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): - पाठ्यक्रम परिणाम (COs): - |
| M.A. Hindi | MA-I HIN 4101/ 4201 | प्राचीन तथा मध्ययुगीन काव्य | अमीर खुसरो की पहेलियों | अमीर खुसरो का खड़ीबोली हिंदी के विकास में योगदान | जायसी का पद्मावत महाकाव्य | जायसी का पद्मावत महाकाव्य | कार्यक्रम के परिणाम (POs): - PO1:- अनुसंधान- संबंधित कौशल: चुने हुए क्षेत्र और संबद्ध विषयों में अनुसंधान और उच्च शैक्षणिक उपलब्धियों के दिया अवस्य की |



| المعادر بعادم معادم مع معادم معادم مع معادم معادم معادم معادم معادم مع معادم معادم مع معادم معادم معادمم معادم معادم معادمم معادم معادمم معامم معام معادم معادم معادم معادم معادم معادم معادم معادم معادم معادمم معادم معادم معادم معادم معادم معادم معام معا | TULJA of Art | ।। सिध्दिरनेकान्तात्।। Anekant Education Society's TULJARAM CHATURCHAND COLLEGE of Arts, Science and Commerce, Baramati - 413102. Dist. Pune. Maharashtra, India. | | | | | | | |
|---|---|---|---|--|--|--|----------|--|--|
| PRINCIPAL | | Em | npowere | d Autono | mous Sta | tus | | | |
| -mail : principal.tccollege@gmail.com | n Religious Mino | rity Institute | NAAC | Reaccred | ited 'A+' Gr | ade, CGPA 3.55 | 5 | | |
| NAAC-SSR | Cycle I | IV | | 2019 - 2 | 2024 | | | | |
| | MAI आधीक | हिंदी की श्रेष – | | | | नैतिकता, बौद्धिक संपदा अधिकारों और साहित्यिक चोरी के मुद्दों के बारे में जागरूक है। प्रासंगिक/उचित प्रश्न पूळने के लिए पूछताछ की भावना और क्षमता प्रदर्शित करें, किसी अनुसंधान परियोजना के परिपामों की योजना बनाने, निष्पादित 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 सं छात्रों को परिचित करतना। CO2) मध्ययुगीन संत एवं भक्तों के काव्य से छात्रों को परिचित कराना। कार्यकम के | | | |
| M.A. Hindi | MA-I आधुानक HIN हिंदी कथा 4102/ साहित्य 4202 | ाहदा का श्रष्ठ उ कहानियाँ — 'मुंबई कांड' ज - ओमप्रकाश व वाल्मीकि | उपन्यास - छप्पर': डॉ. नयप्रकाश हर्दम | उपन्यास - 'छप्पर': डॉ. जयप्रकाश कर्दम | उपन्यास - 'छप्पर': डॉ. जयप्रकाश कर्दम | कायक्रम क परिणाम (POs): - PO3:- सामाजिक क्षमता: व्यक्तिगत और | FURCHIER | | |



| المعالم المعالم المعالم المعالم المعالم المعالم المعالم المعالم المعالم المعالم المعالم معالم معالم المعالم معالم معالم معالم معالم معالم معالم معالم معالم معالم معالم معالم مع معالم معالم معالم معالم معالم | , T L | ।। सिध्दिरनेकान्तात्।। Anekant Education Society's TULJARAM CHATURCHAND COLLEGE of Arts, Science and Commerce, Baramati - 413102. Dist. Pune. Maharashtra, India. Empowered Autonomous Status | | | | | | | | |
|---|------------------------------|--|---|---|---|--|---|---|--|--|
| <u>-mail</u> : principal.tecollege@gmail.c | m Relig | ious Mino | rity Institut | e NAA | C Reaccred | lited 'A+' Gi | ade, CGPA 3.5 | 5 | | |
| NAAC-SSR | | Cycle I | V | | 2019 - | 2024 | ,,,, | | | |
| M.A. Hindi | MA-I HIN 4103/ 4203 | भारतीय / पाश्चात्य साहित्यशा स्त्र | 'पुरस्कार' - जयशंकर प्रसाद रस सिद्धांत, अलंकार सिद्धांत, रीति सिद्धांत, ध्वनि सिद्धांत | रस सिद्धांत, अलंकार सिद्धांत, रीति सिद्धांत, ध्वनि सिद्धांत | रस सिद्धांत, अलंकार सिद्धांत, रीति सिद्धांत, ध्वनि सिद्धांत | अनुकरण सिद्धांत विरेचन सिद्धांत उदात्त सिद्धांत उदात्त सिद्धांत आई. ए. रिचर्डस् का मनोवैज्ञानिक मूल्यवाद और संप्रेषण सिद्धांत | व्यावसायिक जीवन में अच्छे पारस्परिक संबंध बनाने के लिए स्वयं को स्पष्ट और 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। समृह 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 विकसित करना। कार्यक्रम के परिणाम (POs): - PO8 :- आलोचनात्मक सोच और समस्या समाधान: आलोचनात्मक सोच के कौशल का प्रदर्शन करें और अपने सामाजिक परिवेश | | | |



| rof. Dr. Avinash S. Jagtap M.Sc. Ph.D. PRINCIPAL mail : principal.tecollege@gmail.com | TULJA of Art Religious Minor Cycle I | RAM s, Science rity Institute | ।। सिध्दिरनेकान्तात्।। Anekant Education Society's CHATURCHAND COLLE ce and Commerce, Baramati - 413102. Dist. Pune. Maharashtra, India. Impowered Autonomous Status NAAC Reaccredited 'A+' Grade, CGPA 3.55 2019 - 2024 | | | | |
|--|--|--|---|--|---|--|--|
| M.A. Hindi | MA-I विशेष HIN स्तर: 4104/ विशेष 4204 साहित्यका t: कबीt / विशेष विशेष दिदी उपन्यास | कबीर के दोहे तथा पद उपन्यास - गोदान- प्रेमचंद अलग अलग वैतरणी - शिवप्रसाद सिंह परिशिष्ट- गिरिराज किशोर | कबीर के दोहे तथा पद उपन्यास - गोदान- प्रेमचंद अलग अलग वैतरणी - शिवप्रसाद सिंह परिशिष्ट- गिरिराज किशोर | कबीर के दोहे तथा पद उपन्यास - गोदान- प्रेमचंद अलग अलग वैतरणी - शिवप्रसाद सिंह परिशिष्ट- गिरिराज किशोर | कबीर के दोहे तथा पद उपन्यास - गोदान-प्रेमचंद अलग अलग वैतरणी - शिवप्रसाद सिंह परिशिष्ट- गिरिराज किशोर | 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) भारतीय तथा पाश्चात्य साहित्यशास्त्र के सिद्धांतों का ज्ञान कराना। CO2) साहित्यशास्त्रीय अध्ययन के माध्यम से छात्रों में समीक्षात्मक दृष्टि विकसित करना। कार्यक्रम के परिणाम (POs): - PO2:- प्रभावी नागरिकता और नैतिकता: सहानुभूतिपूर्ण सामाजिक सरोकार और समानता केंद्रित राष्ट्रीय विकास का प्रदर्शन करना, नैतिक और नैतिक मुद्दों के बारे में जागरूक जागरूकता के साथ कार्य करने और पेशेवर | |



| Prof. Dr. Avinash S. Jagtap M.Sc. Ph.D. PRINCIPAL mail : principal.tecollege@gmail.com | ।। सिध्दिरनेकान्तात्।। Anekant Education Society's TULJARAM CHATURCHAND COLLEC of Arts, Science and Commerce, Baramati - 413102. Dist. Pune. Maharashtra, India. Empowered Autonomous Status Religious Minority Institute NAAC Reaccredited 'A+' Grade, CGPA 3.55 Cycle IV 2019 - 2024 | | | | | | |
|---|--|---|--|---|--|---|--|
| M.A. Hindi M 1555 | MA-II आधुनिक anaz 1 / 5301 / 2 | गोपा गौतम: जगदीश गुप्त (खंड़काव्य) विशेष कवि कुंवर नारायण की कविताएँ | कामायनी- जयशंकर प्रसाद (महाकाव्य) गोपा गौतमः जगदीश गुप्त (खंड़काव्य) | गोपा गौतम: जगदीश गुप्त (खंड़काव्य) विशेष कवि कुंवर नारायण की कविताएँ | कामायनी- जयशंकर प्रसाद (महाकाव्य) गोपा गौतम: जगदीश गुप्त (खंड़काव्य) | प्रतिबद्ध होने की क्षमता। पाउ्यक्रम परिणाम (COs): - CO1) कबीर के काव्य की काव्य की प्रासंगिकता से अवगत कराना। CO2) हिंदी उपन्यासों में अभिव्यक्त मानवी जीवन का परिचय देना। कार्यक्रम के परिणाम (POs): - PO8 :- आलोचनात्मक सोच और समस्या साधान: आलोचनात्मक सोच के कौशल का प्रदर्शन करें और अपने सामाजिक परिवेश में स्थित समस्याओं से निपटने, व्यवहार्य संग्रिलान अरे अपने सामाजिक परिवेश में स्थित समस्याओं से निपटने, व्यवहार्य अरे इसके कार्यान्वर्य करे के लिए उच्च क्रम के अरिएन का उपयोग करें। पाउ्यक्रम परिणाम (COs): - CO1. छात्र आधुनिक हिंदी काव्य की प्रवृत्तियो | |



| | er stamping | TI | ΤΔ | RAM | II Anekant CHA | सिध्दिरनेकान्त Educatic TIIR(| nत्।। Societ | y's J D COI | LECE | | | |
|---|--|-----------------------------------|---|--|--|---|--|---|------|--|--|--|
| तुळजाराम महाविद्यालय Prof. Dr. Avina M.Sc. | चतुरचंद बारामती ash S. Jagtap Ph.D. | | of Arts, Science and Commerce, Baramati - 413102. Dist. Pune. Maharashtra, India. Empowered Autonomous Status | | | | | | | | | |
| -mail : principal.to | college@gmail.cor | n Religi | ous Minor | rity Institute | NAAC Reaccredited 'A+' Grade, CGPA 3.55 | | | | | | | |
| NAAC-S | SR | | Cycle I | v | | 2019- | 2024 | | | | | |
| | | | cyche I | | | -012 | | | | | | |
| | M.A. Hindi | MA-II 2) HIN 5302 / 5402 | भाषा विज्ञान / हिंदी भाषा का ऐतिहासिक विकास | भाषा की परिभाषा, स्वरूप, हिंदी भाषा का उद्भव एवं विकास हिंदी का व्याकरणिक स्वरूप और विकास | स्वन विज्ञान वाक्य विज्ञान अर्थ विज्ञान, | हिंदी बोलियों का वर्गीकरण तथा क्षेत्र- हिंदी का व्याकरणिक स्वरूप और विकास | भाषा की परिभाषा, स्वरूप, हिंदी भाषा का उद्भव एवं विकास हिंदी का व्याकरणिक स्वरूप और विकास | कार्यक्रम के परिणाम (POs): - PO4 :- अनुशासनात्मक 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। पाठ्यक्रम परिणाम (COs): - CO15) छात्रों में भाषा के वैज्ञानिक अध्ययन की दृष्टि निर्माण | | | | |
| | M.A. Hindi | MA-II 3) HIN 5303 / 5403 | हिंदी साहित्य का इतिहास | आदिकाल भक्तिकाल | भक्तिकाल आधुनिक काल | भक्तिकाल आधुनिक काल | भक्तिकाल आधुनिक काल | करना। 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): - | | | | |





NAAC-SSR

.-mail : principal.tccollege@gmail.com

।। सिध्दिरनेकान्तात्।।

Anekant Education Society's

TULJARAM CHATURCHAND COLLEGE

of Arts, Science and Commerce, Baramati - 413102.

Dist. Pune. Maharashtra, India.

Empowered Autonomous Status

Religious Minority Institute NAAC Reaccredited 'A+' Grade, CGPA 3.55

Cycle IV

| M.A. Hindi | MA-II 4) HIN 5304 / 5404 | वैकल्पिक: आधुनिक हिंदी आलोचना / वैकल्पिक: लोकसाहि त्य | आलोचना- स्वरूप, उद्देश्य, लोकगीत: परिभाषाएँ, विशेषताएँ महाराष्ट्र का लोकनाट्य- तमाशा, गोंधळ | आलोचना और अनुसंधान, आलोचक के गुण, हिंदी आलोचना का विकास क्रम, | हिंदी आलोचना का विकास क्रम, लोकसाहित्य का स्वरूप, परिभाषाएँ तथा विशेषताएँ, | विडम्बना (आयरनी), अजनबीपन (एलियनेशन) , विसंगति (एब्सर्ड), अंतर्विरोध (पैराडॉक्स), विखंडन (डीकन्स्ट्रक्श न) | CO8) हिंदी साहित्य के इतिहास के कालखंडों के नामकरण एवं पृष्ठभूमि का परिचय देना। कार्यक्रम के परिणाम (POS): - PO3:- सामाजिक क्षमता: व्यक्तिगत और व्याक्सायिक जीवन में अच्छे पारस्परिक संबंध बनाने के लिए स्वयं को स्पष्ट और 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) आलोचना का |
|------------|-----------------------------------|--|--|--|--|--|---|
| | | | | | | | प्रदर्शित करें। पाठ्यक्रम परिणाम (COs): - CO1) आलोचना का स्वरूप, उसकी |
| | | | | | | | उपयोगिता और अालोचक के गुण से परिचित कराना। CO2) लोकसाहित्य में |







परिचित होंगे।



HISTORY

| Progr | Course | Course | Topi | c in the syl | labus whic | h has | POs, PSO's |
|-------|-----------------------------------|---|---|---|---|---|--|
| amme | Code | The | relevand | | Derient | al needs | a cos |
| | | | Local | l | l | Global | |
| B.A. | F.Y.B. A.Sem I HIS 1101 | Chh. Shivaji and his times, Part I | Unit2:Ri se and Consoli dation of Maratha power. | Unit2:Ri se and Consoli dation of Maratha power. | Unit2:Ri se and Consoli dation of Maratha power. | Unit2:Ri se and Consoli dation of Maratha power. | PSO 4. To understand & evaluate different historical ideas, various arguments and point of view |
| B.A. | F.Y.B. A.Sem II HIS 1201 | Chh. Shivaji and his times, Part II | Unit1: Chh.Sa mbhaji and his Achieve ments | Unit1: Chh.Sa mbhaji and his Achieve ments | Unit1: Chh.Sa mbhaji and his Achieve ments | Unit1: Chh.Sa mbhaji and his Achieve ments | PSO 01. To learn a basic narrative of historical events in a specific region of the world in a specific time frame. |
| B.A. | S.Y.B. AHIS GEN 2301 | Modern India Part I | Unit III - Indian National ism | Unit III - Indian National ism | Unit III - Indian National ism | Unit III - Indian National ism | PSO 2. To articulate factual & contextual knowledge of specific places & times, to make careful comparisons (across time, space & culture). |
| B.A. | S.Y.B. AHIS SPL I 2302 | Ancient India Part I | Unit –3. Vedic Culture | Unit –3. Vedic Culture | Unit –3. Vedic Culture | Unit –3. Vedic Culture | PSO 4. To understand & evaluate different historical ideas, various |





Anekant Education Society's

TULJARAM CHATURCHAND COLLEGE

of Arts, Science and Commerce, Baramati - 413102.

Dist. Pune. Maharashtra, India. Empowered Autonomous Status

Religious Minority Institute NAAC Reaccredited 'A+' Grade, CGPA 3.55

M.Sc. Ph.D. PRINCIPAL

NAAC-SSR

.-mail : principal.tccollege@gmail.com

Cycle IV

| | | | | | | | arguments and |
|------|----------------------------------|-------------------------------|--|--|--|--|---|
| B.A. | S.Y.B. AHIS SPL II 2303 | Medieval India Part I | Delhi Sultanat e : Arts and Science. | Delhi Sultanat e : Arts and Science. | Delhi Sultanat e : Arts and Science. | Delhi Sultanat e : Arts and Science. | point of view. PSO 5. To develop an appreciation of themselves & of other through the study of the past in local, regional, national and global |
| B.A. | S.Y.B. AHIS GEN 2401 | Modern India- Part II | Unit II - Rise and Growth of commun alism | context. PO 2, Problem Analysis: Provides insight into analyzing key movements, contributing to logical problem |
| B.A. | S.Y.B. AHIS SPL I 2402 | Ancient India- Part II | Unit – 4. Harshav ardhana and his Achieve ments | analysis. PSO 5. To develop an appreciation of themselves & of other through the study of the past in local, regional, national and global context. |
| B.A. | S.Y.B. AHIS SPL II 2403 | Medieval India- Part II | Unit – 3 Delhi sultanate : Socio- Econom ic, & | PSO 5. To develop an appreciation of themselves & of other through the study of the |



Anekant Education Society's

TULJARAM CHATURCHAND COLLEGE



Dist. Pune. Maharashtra, India.

Empowered Autonomous Status

.-mail : principal.tccollege@gmail.com

NAAC-SSR

ताराम

Prof. Dr. Avinash S. Jagtap

M.Sc. Ph.D.

PRINCIPAL

चतरचंद

Religious Minority Institute NAAC Reaccredited 'A+' Grade, CGPA 3.55

Cycle IV

| B.A. | T.Y.B. A. GEN III 3177 | History of the world in20 th Century (1914- 1992) | religious life. Unit-2 Russian Revoluti on | religious life. Unit-2 Russian Revoluti on | religious life. Unit-2 Russian Revoluti on | religious life. Unit-2 Russian Revoluti on | past in local, regional, national and global context. PSO 01. To learn a basic narrative of historical events in a specific region of the world in a |
|------|------------------------------------|--|---|---|---|---|---|
| | | | | | | | specific time frame. |
| B.A. | T.Y.B. A. GEN III 3177 | History of the world in20 th Century (1914- 1992) | Unit 6 : World War II | PO 2 (Problem Analysis): Acquiring in- depth knowledge of the causes and impacts of the First World War aligns with the program outcome of developing logical understanding of the past for analyzing current societal problems (PO 2) |
| B.A. | T.Y.B. | Introducti | Unit-1 Nature | Unit-1 Nature | Unit-1 Nature | Unit-1 Nature | To articulate factual & |
| | A. SPL | on to | and | and | and | and | contextual |
| | III 3178 | History | Scope of History | Scope of History | Scope of History | Scope of History | knowledge of specific places & times, to |



Anekant Education Society's

TULJARAM CHATURCHAND COLLEGE



Religious Minority Institute NAAC Reaccredited 'A+' Grade, CGPA 3.55

Dist. Pune. Maharashtra, India.

Empowered Autonomous Status

Prof. Dr. Avinash S. Jagtap M.Sc. Ph.D. PRINCIPAL

ताराम

NAAC-SSR

.-mail : principal.tccollege@gmail.com

चतरचंट महाविद्यालय, बारामती

Cycle IV

| | | | | | | | make careful comparisons (across time, space & culture) |
|--------|--------|------------|--------------------|--------------------|--------------------|--------------------|---|
| B.A. | T.Y.B. | Introducti | Unit 5 : | Unit 5 : | Unit 5 : | Unit 5 : | PSO 01. To |
| | | onto | School | School | School | School | learn a basic |
| | | | of | of | of | of | narrative of |
| | 111 | History | Historio graphy | Historio graphy | H1stor10 graphy | Historio graphy | historical |
| | 3178 | | graphy | graphy | graphy | graphy | specific |
| | | | | | | | region of the |
| | | | | | | | world in a |
| | | | | | | | specific time frame. |
| B.A. | T.Y.B. | History of | Unit-1 | Unit-1 | Unit-1 | Unit-1 | PSO 01. To |
| | A. SPL | Asia in 20 | China | China | China | China | learn a basic |
| | IV | th | | | | | historical |
| | 3179 | Century | | | | | events in a |
| | 5177 | (1014 | | | | | specific |
| | | (1914- | | | | | region of the |
| | | 1992) | | | | | specific time |
| | | | | | | | frame. |
| B.A. | T.Y.B. | History of | Unit-3 | Unit-3 | Unit-3 | Unit-3 | PSO 01. To |
| | A. SPL | Asia in 20 | Arab | Arab | Arab | Arab | learn a basic |
| | IV | th | Conflict | Conflict | Conflict | Conflict | historical |
| | 3179 | Century | | | | | events in a |
| | 5117 | (1014 | | | | | specific |
| | | (1914- | | | | | world in a |
| | | 1992) | | | | | specific time |
| | | | | | | | frame. |
| M.A. I | HIS | History: | Unit 2 : | Unit 2 : | Unit 2 : | Unit 2 : | CO 1 Students |
| | 4101 | Theory | and its | and its | and its | and its | acquainted |
| | | and | theories | theories | theories | theories | with early |
| | | Method | | | | | theories of Historiograph v. |
| | | | | | | | |





.-mail : principal.tccollege@gmail.com

NAAC-SSR

।। सिध्दिरनेकान्तात्।।

Anekant Education Society's

TULJARAM CHATURCHAND COLLEGE

of Arts, Science and Commerce, Baramati - 413102.

Dist. Pune. Maharashtra, India.

Empowered Autonomous Status

nail.com Religious Minority Institute NAAC Reaccredited 'A+' Grade, CGPA 3.55

Cycle IV

| M.A. I | HIS 4102 | Evolution of Ideas and Institution s in Early India | Unit 2 : Sources: Percepti ons, Limitati ons, Range | Unit 2 : Sources: Percepti ons, Limitati ons, Range | Unit 2 : Sources: Percepti ons, Limitati ons, Range | Unit 2 : Sources: Percepti ons, Limitati ons, Range | CO 2 Students will acquire knowledge about modern and most recent theories of History writing. |
|--------|-------------|--|---|---|---|---|---|
| M.A. I | HIS 4103 | Maratha Polity | Unit 2 Judicial | Unit 2 Judicial | Unit 2 Judicial | Unit 2 Judicial | CO 1 Students will be able to |
| | | Pointy | Adminis trative System | Adminis trative System | Adminis trative System | Adminis trative System | analyze perceptions, limitations and range of sources of Early India. |
| M.A. I | HIS | Social | Unit 3: | Unit 3: | Unit 3: | Unit 3: | CO 2 It |
| | 4104 | Backgrou | al | al | al | al | earlier forms |
| | | nd of | Backgro | Backgro | Backgro | Backgro | of protest |
| | | Dalit | und of Protest | und of Protest | und of Protest | und of Protest | from the |
| | | Movemen | Tiotest | Tiotest | Tiotest | Tiotest | medieval |
| | | t in | | | | | period, which |
| | | Maharash | | | | | foundations |
| | | tra | | | | | for social |
| | | | | | | | protest and dissent in the |
| | | | | | | | pre-Ambedkar period. |
| M.A. | SEM II | History | Unit 1 : | Unit 1 : | Unit 1 : | Unit 1 : | CO1.S |
| | HIS | and its | Defining Historic | Defining Historic | Defining Historic | Defining Historic | tudents will |
| | 4201 | Practices | al | al | al | al | gain a |
| | | | Researc | Researc h | Researc | Researc | solid unders |
| | | | Method | Method | Method | Method | tandin |
| | | | ology | ology | ology | ology | g of histori cal |
| | | | | | | | researc |



| rof. Dr. Avinash S. Jagtap M.Sc. Ph.D. PRINCIPAL mail : principal.tccollege@gmail.com | TULJA of Au Religious Min Cycle | ।। सिध्दिरनेकान्तात्।। Anekant Education Society's TULJARAM CHATURCHAND COLLEGE of Arts, Science and Commerce, Baramati - 413102. Dist. Pune. Maharashtra, India. Empowered Autonomous Status Religious Minority Institute NAAC Reaccredited 'A+' Grade , CGPA 3.55 Cycle IV 2019 - 2024 | | | | | | | |
|--|---|---|---|---|---|---|--------|--|--|
| M.A. SEN HI 42 | A II Evolution S of Ideas 2 and Institution in Medieval India | Unit 2 : Sourc es: Perce ptions , Limit ations, Range | Unit 2 : Sources: Percepti ons, Limitati ons, Range | Unit 2 : Sources: Percepti ons, Limitati ons, Range | Unit 2 : Sources: Percepti ons, Limitati ons, Range | h metho dology , enabli ng them to conduc t effecti ve researc h in the field of history CO2They will become proficient in analyzing various sources of historical information, including Persian texts, regional language sources, and foreign travelers' accounts. | | | |
| M.A. Sen H 42 | n.II Socio IS Economic 03 History of Maratha | Unit 4 : Social Stratific ation and mobility | Unit 4 : Social Stratific ation and mobility | Unit 4 : Social Stratific ation and mobility | Unit 4 : Social Stratific ation and mobility | CO 4 Studen ts will gain an unders tandin g of | NURCHA | | |



| read reinigiant var and a state of the second | ।। सिध्दिरनेकान्तात्।। Anekant Education Society's TULJARAM CHATURCHAND COLLEGE of Arts, Science and Commerce, Baramati - 413102. Dist. Pune. Maharashtra, India. Empowered Autonomous Status Religious Minority Institute NAAC Reaccredited 'A+' Grade , CGPA 3.55 Cycle IV 2019 - 2024 | | | | | | |
|---|--|--|--|--|--|--|--|
| M.A. Sem.I HIS 4204 | I Nature of Unit 2 : Dalit Dalit Babasah Movemen eb t in Ambedk ar's Maharash Moveme nt tra | Unit 2 :Unit 2 :Unit 2 :Unit 2 :Dr.Dr.BabasahBabasahebebAmbedkAmbedkar'sMovementnt | the agraria n system , land types, revenu e collect ion metho ds, and fiscal system s in histori cal India. CO2. They will be able to analyze and discuss key events and organizations in the Dalit movement under Dr.Ambedkar' s leadership, including Mooknayak, Bahishkrut Bharat, Janta, Prabuddha Bharat, BahishkritHita karniSabha, Mahad Satyagraha, and more. | | | | |



| Prof. Dr. Avinash S. Jagtap M.Sc. Ph.D. PRINCIPAL -mail : principal.tecollege@gmail.com | ।। सिध्दिरनेकान्तात्।। Anekant Education Society's TULJARAM CHATURCHAND COLLEGE of Arts, Science and Commerce, Baramati - 413102. Dist. Pune. Maharashtra, India. Empowered Autonomous Status | | | | | | | |
|--|--|---|---|---|---|--|--|--|
| NAAC-SSR | Cycle IV 2019 - 2024 | | | | | | | |
| M.A. Sem I HIS 5301 | II An cie nt an d Me die val Ci vili zat ion of the W orl d | Unit 2. Ancient civilizati ons: Egypt, Mesopot amia, Persia,In dia, Chin | Unit 2. Ancient civilizati ons: Egypt, Mesopot amia, Persia,In dia, Chin | Unit 2. Ancient civilizati ons: Egypt, Mesopot amia, Persia,In dia, Chin | Unit 2. Ancient civilizati ons: Egypt, Mesopot amia, Persia,In dia, Chin | CO 3 - Understanding cultural, social, religious, and economic dynamics: | | |
| M.A. Sem HIS 5302 | II Debates in Indian History | Unit 2 The State in Indian History : Debates and Theories | CO 2. Develop critical thinking skills by analyzing the Aryan Invasion Hypothesis, considering different perspectives and evidence. | | |
| M.A. SemI HIS 5303 | I conomic Modern of ndia | Unit 3. Industry | Unit 3. Industry | Unit 3. Industry | Unit 3. Industry | C07 Evolution of Financial System and Banking | | |



| Prof. Dr. Avinash S. J. M.Sc. Ph.D. PRINCIPAL -mail : principal.tecollege@ NAAAC-SSR | lagtap gmail.com | TULJA of A Religious Mi Cycle | ARAN Arts, Scie | Anekan A CHA once and Dist. P Empowe aute NA | ।। सिध्दिरनेक at Educat ATUR Commune. Mahai ared Auto AC Reacce 2019 | realia ।। CHA erce, Ba rashtra, Inc nomous S redited 'A+' - 2024 | ety's ND COI ramati - 413 lia. Status Grade, CGPA 3.5 | LEGE 102. |
|--|------------------------|--|---|---|--|---|---|---------------------|
| M.A. | Sem III HIS 5304 | I History of Maharas htra in the 19th Century | Unit 4. Social stratifica tion and caste- class consciou sness | Unit 4. Social stratifica tion and caste- class consciou sness | Unit 4. Social stratifica tion and caste- class consciou sness | Unit 4. Social stratifica tion and caste- class consciou sness | co 3 - Social and Cultural Changes | |
| M.A. | Sem IV HIS 5401 | History of Modern India (1857- 1971) | Unit 1. Indian Revoluti onary Moveme nt | Unit 1. Indian Revoluti onary Moveme nt | Unit 1. Indian Revoluti onary Moveme nt | Unit 1. Indian Revoluti onary Moveme nt | The Indian Revolutionary Movement, various issues, and movements directly relates to building critical abilities through understanding multiple narratives and historical developments. | |
| | Sem IVHIS 5402 | Intellect ual History of the | Unit 3. Revoluti on in Scientifi c | Unit 3. Revoluti on in Scientifi c | Unit 3. Revoluti on in Scientifi c | Unit 3. Revoluti on in Scientifi c | CO 3: Explore the impact of scientific revolutions | |

BARAMAT



।। सिध्दिरनेकान्तात्।।

Anekant Education Society's

TULJARAM CHATURCHAND COLLEGE

of Arts, Science and Commerce, Baramati - 413102.

Dist. Pune. Maharashtra, India.

Empowered Autonomous Status

-mail : principal.tccollege@gmail.com Religious Minority Instit

NAAC-SSR

Religious Minority Institute NAAC Reaccredited 'A+' Grade, CGPA 3.55

Cycle IV

| | | Modern | thinking | thinking | thinking | thinking | on |
|--|-------|----------------------|----------|----------|----------|----------|------------------|
| | | West | and its | and its | and its | and its | intellectual |
| | | | impact | impact | impact | impact | history |
| | Sem | World | Unit1. | Unit1. | Unit1. | Unit1. | CO 1.To |
| | IVH | after | Cold | Cold | Cold | Cold | understand the |
| | IS | World | War: | War: | War: | War: | origin and |
| | 540 | War II | Origin | Origin | Origin | Origin | nature of the |
| | 3 | (1945- | and | and | and | and | Cold War and |
| | | 2000) | Nature, | Nature, | Nature, | Nature, | its |
| | | | Issues | Issues | Issues | Issues | implications |
| | | | | | | | for global |
| | | | | | | | politics, with a |
| | | | | | | | focus on key |
| | | | | | | | events like the |
| | | | | | | | Berlin Crisis |
| | | | | | | | (1948), |
| | | | | | | | Korean War, |
| | | | | | | | and Cuban |
| | | | | | | | Crisis. |
| | | | | | | | |
| | Sem | History | Unit 6. | Unit 6. | Unit 6. | Unit 6. | СО 2. То |
| | IVHIS | of | Towards | Towards | Towards | Towards | explore the |
| | 5404 | Maharas | emancip | emancip | emancip | emancip | key political, |
| | | htra in | ation of | ation of | ation of | ation of | social, and |
| | | the 20 th | Women | Women | Women | Women | cultural |
| | | Century | | | | | movements |
| | | | | | | | that shaped |
| | | | | | | | the state's |
| | | | | | | | history. |
| | | | | | | | |





LIBRARY SCIENCE

| Progra mme | Cour se | Course Title | Topic in the develo | POs, PSO's & | | | |
|-------------------------|-------------|---|----------------------------|----------------------------|----------------------------|----------------------------|---|
| | Code | | Local | National | Regional | Global | COs |
| B.Lib.I .Sc. (UG) | BLIS 101 | Foundatio n of Library & Informatio n Science | Library Develop ment | Library Develop ment | Library Develop ment | Library Developm ent | CO1. The foundation al aspects of library and informatio n science (LIS), in terms of history, significant developm ents, major themes, organizati ons and institution s. PO4 :Disciplin ary Knowledg e: CO1: This CO contribute s to disciplinar y knowledg e by covering the historical |







| Tigo sintin vigera Tigo sintin Tigo sin | om Religious Mi | ।। सिध्दिरनेकान्तात्।। Anekant Education Society's TULJARAM CHATURCHAND COLLEG of Arts, Science and Commerce, Baramati - 413102. Dist. Pune. Maharashtra, India. Empowered Autonomous Status Religious Minority Institute NAAC Reaccredited 'A+' Grade, CGPA 3.55 Cycle IV 2019 - 2024 | | | | | |
|--|--|---|---|---------------------------------|--|--|--|
| | LIS Reference 03 Service & Informatio n Sources | Online Referenc e Services Services | nline eferenc ervices Prvices Online Referenc e Services | Online Reference Services | applicatio n of a broad range of skills and attitudes necessary for effective library and informatio n center manageme nt, aligning with the overall disciplinar y knowledg e in LIS. CO7 . Acquire the understan ding of reference services. PO3 : Social competen ce and communi cation skills : CO7: Acquiring an understan ding of | | |









NAAC-SSR

।। सिध्दिरनेकान्तात्।।

Anekant Education Society's

TULJARAM CHATURCHAND COLLEGE

of Arts, Science and Commerce, Baramati - 413102.

Dist. Pune. Maharashtra, India.

Empowered Autonomous Status

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

Cycle IV

| | | | | | | for effective citizenship |
|-------------|---|--|--|--|--|--|
| BLIS 105 | Knowledg e Organisati on Classificat ion-I (Theory) | Various Classific ation Schemes | Various Classific ation Schemes | Various Classific ation Schemes | Various Classificat ion Schemes | CO6: Illustrate knowledg e as mapped in different classificati on schemes PO2: Effective Citizenshi p and Ethics: CO6: Understan ding how knowledg e is mapped in different classificati on schemes promotes effective citizenship by providing individual s with tools to critically analyze and interpret informatio n. |




| BLIS | Informatio | Catalogui | Catalogui | Catalogui | Catalogui | CO6. Will |
|------|------------|-----------|-----------|-----------|-----------|-------------|
| 106 | n | ng Codes | ng Codes | ng Codes | ng Codes | be useful |
| | Processing | | | | | to |
| | : | | | | | understan |
| | Cataloguin | | | | | d the basic |
| | g-I | | | | | functions |
| | (Theory) | | | | | and |
| | | | | | | practical |
| | | | | | | work in |
| | | | | | | library |
| | | | | | | cataloguin |
| | | | | | | g. |
| | | | | | | PO3: |
| | | | | | | Social |
| | | | | | | competen |
| | | | | | | ce and |
| | | | | | | communi |
| | | | | | | cation |
| | | | | | | skills: |
| | | | | | | CO6: |
| | | | | | | Practical |
| | | | | | | experience |
| | | | | | | in library |
| | | | | | | cataloguin |
| | | | | | | g |
| | | | | | | enhances |
| | | | | | | social |
| | | | | | | competenc |
| | | | | | | e by |
| | | | | | | providing |
| | | | | | | hands-on |
| | | | | | | skills in |
| | | | | | | managing |
| | | | | | | informatio |
| | | | | | | n |
| | | | | | | resources. |
| BLIS | Informatio | Advance | Advance | Advance | Advanced | CO2. |
| 107 | n | d ICT | d ICT | d ICT | ICT | Familiar |
| | Communi | Techniqu | Techniqu | Techniqu | Technique | with |
| | cation | es in | es in | es in | s in | Computer |
| | Technolog | Libraries | Libraries | Libraries | Libraries | system |
| | y(ICT) in | | | | | including |
| | | | | | | hardware |



| Extract of data-recept | | ।। सिध्दिरनेकान्तात्।। Anekant Education Society's | | | | | | | | | | |
|---|---|---|---|---|---|--|---|--|--|--|--|--|
| अनेकांत एजकेस्टर सीमाज्यान् तुट्ठजाराम्म चतुरचेद | TULJA | TULJARAM CHATURCHAND COLLEGE | | | | | | | | | | |
| महाविद्यालय, बारामती | of A | of Arts, Science and Commerce, Baramati - 413102. | | | | | | | | | | |
| Prof. Dr. Avinash S. Jagtap | 8 | | Dist. Pu | ne. Mahara | shtra, India | | | | | | | |
| PRINCIPAL | | | Empower | Empowered Autonomous Status | | | | | | | | |
| -mail : principal.tccollege@gmail.com | m Religious Mi | nority Institu | ute NAA | C Reaccree | lited 'A+' G | rade, CGPA 3.5. | 5 | | | | | |
| NAAC-SSR | Cycle | e IV | | 2019 - | 2024 | | | | | | | |
| | | | | | | | | | | | | |
| | Libraries (Theory) | | | | | and software. PO6 : Self- directed and Life- long learning CO2 :This outcome encourage s students to stay updated with the latest technolog y trends, fostering a culture of life-long | | | | | | |
| | | | | | | learning. | | | | | | |
| | | | | | | 8 | | | | | | |
| M.Lib. I.Sc. (PG) | LIS Informatio n Communi cation & Society | Develop ments in Informati on Society | Develop ments in Informati on Society | Develop ments in Informati on Society | Develop ments in Informat ion Society | 2. Should be able to understand the basic theory and practice of research and be familiar with qualitative and quantitative methods. PO2 Effective Citizenship and Ethics: | | | | | | |



| Trof. Dr. Avinash S. Jagt M.Sc. Ph.D. PRINCIPAL | l.com | ।। सिध्दिरनेकान्तात्।। Anekant Education Society's TULJARAM CHATURCHAND COLLEGE of Arts, Science and Commerce, Baramati - 413102. Dist. Pune. Maharashtra, India. Empowered Autonomous Status Religious Minority Institute NAAC Reaccredited 'A+' Grade , CGPA 3.55 Cycle IV 2019 - 2024 | | | | | | | |
|---|-------------|---|-----------------------------|-----------------------------|-----------------------------|---------------------------------|---|--|--|
| | MLIS 102 | Introducti on to Research Methodolo gy | Research Tools.& SPSS | Research Tools.& SPSS | Research Tools.& SPSS | Researc h Tools.& SPSS | All of the COs also contributes to Effective Citizenship and Ethics. For example, CO2, and CO3 The students will be understand TQM, Managemen t, change managemen t ethics CO4 students to use their Effective managemen t system in library. 6. Understand the various information retrieval models PO1 Research- Related Skills and Scientific temper: CO6 community building in library marketing. | | |



स्विद्धरनेवयनसा अभ्रेक्षांत एनपुरेन्ड सीसावने अभ्रेक्षांत एनपुरेन्ड सीसावने तुळजाराम चतुरचंद महाविद्यालय, बारामती

Prof. Dr. Avinash S. Jagtap M.Sc. Ph.D. PRINCIPAL

NAAC-SSR

.-mail : principal.tccollege@gmail.com

।। सिध्दिरनेकान्तात्।।

Anekant Education Society's

TULJARAM CHATURCHAND COLLEGE

of Arts, Science and Commerce, Baramati - 413102.

Dist. Pune. Maharashtra, India.

Empowered Autonomous Status

Religious Minority Institute NAAC Reaccredited 'A+' Grade, CGPA 3.55

Cycle IV

| MLIS 103 | Informatio n Retrieval | Informati on Models | Informati on Models | Informati on Models | Informat ion Models | 4. Should be capable of managing the human resources beneficially. PO5 Personal and professiona l competenc e: CO4 : contribute to the developmen t of students' Personal and professional competence |
|-------------|--|--|--|--|--|---|
| MLIS 104 | Managem ent of Libraries & Informatio n Centres- A | Human Resource s Manage ment | Human Resource s Manage ment | Human Resource s Manage ment | Human Resourc es Manage ment | 3.To examines basic concepts and theories of digital libraries PO3 Social competenc e and communica tion skills: CO3, CO4, CO5 also contributes to Social |



| Prof. Dr. Avinash S. Jagtap M.Sc. Ph.D. PRINCIPAL | | | ।। सिच्दिरनेकान्तात्।। Anekant Education Society's TULJARAM CHATURCHAND COLLEG of Arts, Science and Commerce, Baramati - 413102. Dist. Pune. Maharashtra, India. Empowered Autonomous Status Religious Minority Institute NAAC Reaccredited 'A+' Grade, CGPA 3.55 Cycle IV 2019 - 2024 | | | | | | |
|---|--|-------------|---|-----------------------------|-----------------------------|-----------------------------|-----------------------------|--|--|
| | | MLIS 105 | Informatio n Technolog y (Theory) | Library Digitizati on | Library Digitizati on | Library Digitizati on | Library Digitizat ion | <pre>competence and communicat ion skills For example CO3, CO4, CO5 students will be use to communicat ion technology. CO1. The foundationa 1 aspects of library and information science (LIS), in terms of history, significant developmen ts, major themes, organizatio ns and institutions. PO4 :Disciplina ry Knowledge CO1: This CO contributes to disciplinary knowledge by covering</pre> | |



| المحلة ا محلة المحلة محلة محلة محلة محلة محلة محلة محلة | ।। सिध्दिरनेकान्तात्।। Anekant Education Society's TULJARAM CHATURCHAND COLLEGE of Arts, Science and Commerce, Baramati - 413102. Dist. Pune. Maharashtra, India. Empowered Autonomous Status | | | | | | |
|--|---|--------------------------|--|--|--|--|--|
| -mail : principal.tccollege@gmail.com | Religious Minority Institute | NAAC Reaccredited 'A+' O | Grade, CGPA 3.55 | | | | |
| NAAC-SSR | Cycle IV | 2019 - 2024 | | | | | |
| | | | the historical background, significant developmen ts, major themes, organizatio ns, and institutions in LIS. | | | | |





MARATHI

| Progra | Course | Cou | Topic in the | POs, | | | |
|-------------------------|----------------|--|--|---|--|--|---|
| mme | Code | rse | to the | ental need | ds | PSO's & | |
| | | Title | Local | National | Regio | Global | COs |
| F.Y. B.A. Sem. I | MARGEN1 101 | आधुनि क मराठी साहित्य व व्यावहा रिक मराठी | Stories Language Skills तक्रार- शंकर पाटील | Multi Language Skills झोप - द. मा. मिरासदार | Regio nal Regio nal Langu age Skills मी आचार्य अत्रे कसा झालो नाही ?- मुकुंद टाकसाळे | Translet ers पेज थ्री- मंगला गोडबोले | Pos. 1) Researc h- Related Skills: Pso- मराठी भाषा आणि वाड्मयाविषयी चे प्रगत ज्ञान होईल. Co- साहित्याच्या अभ्यासातून विद्यार्थ्यांच्या |
| F.Y. B.A. Sem. II | MARGEN1 201 | आधुनि क मराठी साहित्य व व्यावहा रिक | Poetry Language Skills काळी आई | Entrepren eurs जन्मदात्री आई | Regio nal Langu age Skills मातृभाषा | Translet ers दैवत माऊली | सूक्ष्म, विश्लेषक व चिकित्सक अभ्यास करण्याच्या क्षमतेमध्ये वाढ होईल. Po5 Persona land professi onal compet ence Pso- लेखन- संपादन, लेखनविद्या -, |
| | | मराठी | | | | | भाषांतर, रूपांतर, अनुवाद, वक्तृत्व कला, |



| Prof. Dr. Avinash S. Jagta M.Sc. Ph.D. PRINCIPAL Comail : principal.tecollege@gmail. | rp com Religion | ।। सिध्दिरनेकान्तात्।। Anekant Education Society's TULJARAM CHATURCHAND COLLEG of Arts, Science and Commerce, Baramati - 413102. Dist. Pune. Maharashtra, India. Empowered Autonomous Status Religious Minority Institute NAAC Reaccredited 'A+' Grade, CGPA 3.55 Cycle IV 2019 - 2024 | | | | | | | |
|---|--------------------|--|---|--|---|---|--|--|--|
| F.Y.B.C OM Sem. I | COMMAR1 107B | व्यावहा रिक व उपयोजि त मराठी | Lan guage & Literature Skil कर्मयोगी शिक्षणतज्ञ - डॉ. राम ताकवले | Multi Language Skills Э भिनय सम्राट - डॉ. श्रीराम लागू | Regio nal Langu age Skills प्रख्यात धन्वंतरी - डॉ.ह.वि. सरदेसाई | Job Opportu nity रा ष्ट्रीय कीर्तीचे शास्त्रज्ञ - डॉ. रघुनाथ माशेलकर | नाट्यकला, याअभिव्यक्ती च्या आविष्कार प्रक्रियांविषयी तसेच त्यासंबंधीची महिती होईल. Co- प्रसार माध्यमांमध्ये विद्यार्थ्यांना आपले विचार निर्भाडणणे मांडण्यांच कौशाल्य प्राप्त होईल. PO4: Disciplin ary Knowled ge: PSO- वाङ्याची आणि जीवनाची जाणीव प्रौढ होईल. Co- विद्यार्थ्यांच्या तेईल. Co- वाङ्यार्थाची आणि जीवनाची जाणीव प्रौढ होईल. Co- विद्यार्थ्यांच्या तेईल. येवेव न्या प्रेत्रासकीय व्यवहार करताना व द्यार्थ्यांना मराठीचा अचूक व | | |





Anekant Education Society's

TULJARAM CHATURCHAND COLLEGE

of Arts, Science and Commerce, Baramati - 413102.

Dist. Pune. Maharashtra, India.

M.Sc. Ph.D. PRINCIPAL

NAAC-SSR

.-mail : principal.tccollege@gmail.com

Empowered Autonomous Status

Religious Minority Institute NAAC Reaccredited 'A+' Grade, CGPA 3.55 Cycle IV

| | | | | | | | प्रभावा वापर |
|--------------------------|-----------------|---------------------------------------|---|---|---|---|--|
| | | | | | | | करता येईल. |
| F.Y.B.C OM Sem. II | COMMAR1 207B | व्यावहा रिक व उपयोजि त मराठी | Language Skills अर्जलेखन इतिवृत्त लेखन | Multi Language Skills कार्यालयीन टिपण्णी लेखन | RegionalLanguageSkillsघोषणापत्रकनिविदामाहितीपत्रक | Job Opportu nity सारांश लेखन सूत्रसंचालन | PO8: Critical Thinking and Problem solving: PSO विद्यार्थ्यांची भाषिक कौशल्याच्या वापरासंबंधीची क्षमता विकसित होईल. Coभाषिक क्षमता व कौशल्य आत्मसात करता येतील. |

| Progra | Course | Cou | Topic in | the syllabus | which has r | elevance to | POs, |
|------------------|----------------|--|---|---|---|--|---|
| mme | Code | rse | | the develop | omental need | S | PSO's & |
| | | Title | Local | National | Regional | Global | COs |
| SYBA Sem. III | MARGE N2301 | Title आधुनि क मराठी साहित्य आणि उपयो जित | Local Stories Languag e Skills KkuT;ks rh lkfo=hc kbZ Qqys % L=h gDdkpk | National Multi Language Skills महर्षी /kksaMks a ds'ko dosZ % निष्काम deZ;ksxh & MkW- | Regional Regional Language Skills egkjktk l;kthjko xk;dokM % दूरदृष्टा jktk&ckck HkkaM | Global Transleter s MkW- ckcklkgsc vkacsMdj % fo slkBh [kMrj izokl& /kuat; dhj | COs Po6; Self- directed and Life- long learning: Pso चरित्रात्मक लेखाचे आस्वाद आणि मूल्यमापन करण्याची क्षमता विद्यार्थांमध्ये |
| | | मराठा | iz.ksR;k &izk- gjh ujds | u- e- tks'kh | | | निर्माण होईल. Co लेखकाच्या समग्र लेखक |





Anekant Education Society's

TULJARAM CHATURCHAND COLLEGE

of Arts, Science and Commerce, Baramati - 413102.

Dist. Pune. Maharashtra, India.

Empowered Autonomous Status

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

NAAC-SSR

Cycle IV

| | | | | | | | म्हणून अभ्यासाचा जाण विकसित होईल तसेच विविध साहित्य प्रवाहांची माहिती होईल व अशा अभ्यासाच्या आकलनक्षमतेत वाढ होईल. |
|--------------------|----------------|---|---|--|--|---|--|
| SYBA Sem. IV | MARGE N2401 | आधुनि क मराठी साहित्य आणि उपयो जित मराठी | Stories Languag e Skills e;kZn'k hy thoukpk vkys[k & Jherh izfrHkkr kbZ ikVhy | Multi Language Skills eh vkf.k ek>s ys[ku& MkW- ;w- e- iBk.k | Regional Language Skills lkfgfR;d tM.k?kM. k& jk- x- tk/ko | Transleter s foLrkj.kkj s f{kfrt& MkW- rkjk HkokGdj | 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 व |
| SYBA Sem. III | MARSPL 2302 | मराठी साहि त्यातील विविध साहित्य प्रवाह | Stories Languag e Skills | Multi Language Skills | Regional Language Skills | Transleter s | 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 |







| rof. Dr. Avinash S. Jagtap M.Sc. Ph.D. PRINCIPAL mail : principal.tccollege@gmail.com | TULJA of Art Religious Minor Cycle I | ।। सिघ्दिरनेकान्तात्।। Anekant Education Society's TULJARAM CHATURCHAND COLLE of Arts, Science and Commerce, Baramati - 413102. Dist. Pune. Maharashtra, India. Empowered Autonomous Status Religious Minority Institute NAAC Reaccredited 'A+' Grade , CGPA 3.55 Cycle IV 2019 - 2024 | | | | | |
|--|---|--|--|--|---|---------|--|
| SYBA Sem. IV | ARSPL 2403 ARSPL 240 | nguag & Multi Language eratur kill निवडक डक कथा कादंबरी, व विविध वाड् मय प्रकारांचा रांचा अभ्यास गस | Regional Language Skills निवडक कविता व विविध वाड्मय प्रकारांचा अभ्यास | Job Opportuni ty निवडक नियतकालिके विविध वाड्मय प्रकारांचा अभ्यास | वाढीस लागण्यास मदत होईल. Co- या संपूर्ण कालखंडातील निबंध, कविता, कथा, कादंबरी, नाटक, चरित्र- आत्मचरित्र,या वाड्मय प्रकाराचे विद्यार्थ्यांना आकलन होईल. Po4.Disci plinary Knowled ge: Pso-विशिष्ट कालखंडातील साहित्याच्या अभ्यासाच्या वाढीस लागण्यास मदत होईल. Co- या संपूर्ण कालखंडातील माहित्याच्या अभ्यासाच्या व्याप्ती बद्दल विद्यार्थ्यांची जाण वाढीस लागण्यास मदत होईल. Co- या संपूर्ण कालखंडातील मांदेर्शरा वाढी कविता, कथा, कादंबरी, नाटक, चरित्र- आत्मचरित्र,या वाड्मय प्रकाराचे विद्यार्थांना आत्मचरित्र,या वाड्मय प्रकाराचे | | |
| SYBSC Sem. III M | मराठी Stor विज्ञान Lan साहित्य e 3 AR230 आणि 1A विज्ञान विज्ञान त्यावहा रिक मराठी | ories Multi nguag Language Skills Skills ान कथा वैज्ञानिक भाषा | Regional Language Skills तंत्र कौशल्य | Transleter s शास्त्रज्ञ | PO8: Critical Thinking and Problem solving: | TURCHIN | |



| rof. Dr. Avinash S. Jagt M.Sc. Ph.D. PRINCIPAL -mail : principal.tccollege@gmail NAAC-SSR | ap Rel | ULJ of igious M Cyc | ARA Arts, Sc Minority Ins le IV | Anekar M CH ience and Dist. F Empow | ।। सिध्दिरनेकान at Educati ATUR I Comme Pune. Mahara ered Autor AAC Reacce 2019 - | तात्।। on Societ CHAN rce, Bara ashtra, India comous Sta cdited 'A+' Go | y's JD COI amati - 413 tus rade, CGPA 3.5. | LEGE 102. |
|---|--------------|---|--|---|--|---|---|---------------------|
| SYBSC Sem. IV | MAR240 1A | मराठी विज्ञान साहित्य आणि व्यावहा रिक मराठी | Stories Languag e Skills कथाकथन | Multi Language Skills बहुभाषिकता | Regional Language Skills नवीन शोध | Transleter s भाषा कौशल्य | PSO- साहित्याच्याअभ्या सातून विद्यार्थांच्या सूक्ष्म, विश्ठेषक व चिकित्सक अभ्यास करण्याच्या क्षमतेमध्ये वाढ होईल. CO- वैज्ञानिक जाणीवा विकसित होतील. PO8: Critical Thinking and Problem solving: PSO- साहित्याच्या अभ्यासातून विद्यार्थ्यांच्या सूक्ष्म, विश्ठेषक व चिकित्सक अभ्यास करण्याच्या सुक्ष्म, विश्ठेषक व चिकित्सक अभ्यास करण्याच्या क्षमतेमध्ये वाढ होईल. Co- जीवनामध्ये वेज्ञानाचा सुयोग्य वापर करायता शिकतील. साद | |





-mail : principal.tccollege@gmail.com

A.

VI

SEM-

क

मराठी

साहित्य

प्रकारां

अभ्यास

चा

Languag

e Skills

''दोन चाक

आणि मी'-

लेखक-

।। सिध्दिरनेकान्तात।।

Anekant Education Society's

TULJARAM CHATURCHAND COLLEGE

of Arts, Science and Commerce, Baramati - 413102.

Dist. Pune. Maharashtra, India.

Empowered Autonomous Status

Religious Minority Institute NAAC Reaccredited 'A+' Grade, CGPA 3.55

NAAC-SSR

Cycle IV

2019 - 2024

Transleter T.Y.B. Multi MARGE Stories Regional आधुनि N3501 A. Languag Language Language S क SEM-V e Skills Skills Skills संवाद कौशल्य ग्रंथ परीक्षण ललित गद्य 'उद्याच्या स्वरूप मराठी सुंदर साहित्य दिवसांसाठी' प्रकारां डॉ. चा नागनाथ अभ्यास कोत्तापल्ले, T.Y.B. Multi आस्वादक MARSPL 1. Re 3502 gio A. Language Languag nal SEM-V e Skills Skills La कलावादी व व्यवहारभाषा. ng शास्त्रीय जीवनवादी या ua साहित्याची ge साहित्य दृष्टीने प्रयोजन भाषा व Ski विचार विचार lls साहित्याची साहि भाषा त्याचे यांच्यातील হাত্ব भेद स्वरू प T.Y.B. MARSPL Multi Regional Transleter मराठी 3503 Language A. Languag Language चा S SEM-V e Skills Skills Skills भाषिक अनुवाद अभ्यास बहुभाषिकत्व भाषाभेद बोलीभूगोल आधुनि T.Y.B. MARGE Multi Transleter Stories Regional N3601

Language

सवर्णनाचे घटक

प्रवा

स

परंपरा

Skills

Language

Skills

प्रवा

वर्णनाची

s

प्रवासवर्णनकार





Anekant Education Society's

TULJARAM CHATURCHAND COLLEGE

of Arts, Science and Commerce, Baramati - 413102.

Dist. Pune. Maharashtra, India. **Empowered Autonomous Status**

M.Sc. Ph.D. PRINCIPAL

.-mail : principal.tccollege@gmail.com

Г

Religious Minority Institute NAAC Reaccredited 'A+' Grade, CGPA 3.55

NAAC-SSR

Cycle IV

| T.Y.B. A. SEM- VI | MARSPL 3602 | साहित्य विचार | हृषीकेश पाळंदे, Languag e Skills आस्वादकाचे गुण | Multi Language Skills लेखक, वाचक आणि भाषा | Regional Language Skills अभिरुची नियंत्रित करणारे | Transleter s साहित्य प्रकार संकल्पना | |
|-------------------------------|----------------|--|--|---|--|---|--|
| T.Y.B. A. SEM- VI | MARSPL 3603 | मराठी चा भाषिक अभ्यास | Languag e Skills स्वन विज्ञान | पापा सामाजिकता Multi Language Skills अर्थाचे विविध प्रकार | Regional Language Skills स्वनिम निश्चितीची तत्वे | Transleter s रूपिमाचे प्रकार | |
| MA I Marat hi Sem. I | MAR410 1 | व्यावहा रिक आणि उपयो जित मराठी भाग- १ | Languag e Skill मुद्रित शोधन | Multi Language Skills प्रमाणलेखन | Regional Language Skills मुलाखत लेखन | Job Opportuni tyties मुलाखतकार,मु द्रितशोधक | PO4:Discip linary Knowledge : PSO. 'aaat aaat aaat wilde aaat wilde wilde wilde aaat wilde wilde |





NAAC-SSR

.-mail : principal.tccollege@gmail.com

।। सिध्दिरनेकान्तात्।।

Anekant Education Society's

TULJARAM CHATURCHAND COLLEGE

of Arts, Science and Commerce, Baramati - 413102.

Dist. Pune. Maharashtra, India.

Empowered Autonomous Status

Religious Minority Institute NAAC Reaccredited 'A+' Grade, CGPA 3.55 Cycle IV

| | | | | | | | कोशल्य विकसित होतील. |
|--|-------------|--|---|---|---|--------------------------------|---|
| | MAR410 2 | मध्ययु गीन मराठी वाड्म याचा इतिहास (प्रारंभ ते १६००) | Literatur e Skill वाड्मयाचा इतिहास | Literature Knowled ge Skill विविध वाड्मय प्रकार | Regional Language Skills विविध वाड्मय वाटचाल | Job Opportuni ty लेखक | Po1 Research- Related Skills: pso- विशिष्ट कालखंडातील साहित्याच्या अभ्यासाच्या व्याप्ती बद्दल विद्यार्थ्यांची जाण वाढीस लागण्यास मदत होईल. co- मराठी भाषेची उत्पत्ती विकास व स्थित्यंतराची ओल्प्रव होईल |
| | MAR410 3 | भाषावि ज्ञान- वर्णना त्मक | Languag e Skills स्वन विज्ञान | Multi Language Skills अर्थाचे विविध प्रकार | Regional Language Skills स्वनिम निश्चितीची तत्वे | Transleter s बहुभाषिक | Po1 Research- Related Skills: pso- वद्यार्थ्यांची भाषिक अभिव्यक्ती सुधारण्यास तसेच पर्यायाने समाजाची भाषिक अभिवृद्धी विकसित होण्याची प्रक्रिया सुरू होईल. co- विद्यार्थ्यांना शास्त्रीय दृष्ट्या भाषेचा परिचय होईल. |



Anekant Education Society's

TULJARAM CHATURCHAND COLLEGE



Dist. Pune. Maharashtra, India.

Empowered Autonomous Status

Prof. Dr. Avinash S. Jagtap M.Sc. Ph.D. PRINCIPAL

NAAC-SSR

महाविद्यालय, बारामती

.-mail : principal.tccollege@gmail.com

Religious Minority Institute NAAC Reaccredited 'A+' Grade, CGPA 3.55 Cycle IV

| | MAR410 | ग्रामीण | Languag | Multi | Social & | Author | PO3: Social |
|--------|--------|--------------------|-------------|-------------------------|---|-----------------------------|---|
| | 4 | साहित्य | e Skill | Language | Regional | ग्रामीण | competenc |
| | | | ग्रामीण कथा | विविध बोलींचा अभ्यास | Language Skills सामाजिक बांधिलकी | लेखकांचा अभ्यास | e: pso- लेखकाच्या समग्र लेखक म्हणून अभ्यासाची जाण विकसित होईल तसेच विविध साहित्य प्रवाहांची माहिती होईल अशा अभ्यासाच्या आकलननक्षमतेत वाढ होईल. CO-ग्रामीण कथा कादंबरी व साहित्याचे आकलन होईल. |
| | | | | | | | |
| | MAR420 | व्यावहा | | Multi | Language | Language | PO5: |
| | 1 | रिक | Languag | Language | Skills | Based | Personal |
| MAI | | आणि जामो | e Skill | Skills | Print, | Job | and |
| Marat | | जन्म जित | निवेदन | भाषांतर | Radio & | Opportuni | profession |
| hi | | un f | | | | | |
| | | मराठा | कौशल्य | | Television | ties | al |
| Sem II | | मराठा भाग- | कौशल्य | | Television Media Etc. | ties जनसंपर्कअधि | al competenc |
| Sem.II | | भाग- २ | कौशल्य | | Television Media Etc. skills | ties जनसंपर्कअधि कारी | al competenc e: pso- लेखन- संपादन, |
| Sem.II | | भराठा भाग- २ | कौशल्य | | Television Media Etc. skills अनुवादक | ties जनसंपर्कअधि कारी | al competenc e: pso- लेखन- संपादन, लेखनविद्या -, |
| Sem.II | | भाग- २ | कौशल्य | | Television Media Etc. skills अनुवादक | ties जनसंपर्कअधि कारी | al competenc e: pso- लेखन- संपादन, लेखनविद्या -, भाषांतर, रूपांतर, |
| Sem.II | | भराठा भाग- २ | कौशल्य | | Television Media Etc. skills अनुवादक | ties जनसंपर्कअधि कारी | al competenc e: pso- लेखन- संपादन, लेखनविद्या -, भाषांतर, रूपांतर, अनुवाद, वक्तृत्व |
| Sem.II | | मराठा भाग- २ | कौशल्य | | Television Media Etc. skills अनुवादक | ties जनसंपर्कअधि कारी | al competenc e: pso- लेखन- संपादन, लेखनविद्या -, भाषांतर, रूपांतर, अनुवाद, वक्तृत्व कला, नाट्यकला, |
| Sem.II | | भराठा भाग- २ | कौशल्य | | Television Media Etc. skills अनुवादक | ties जनसंपर्कअधि कारी | al competenc e: pso- लेखन- संपादन, लेखनविद्या -, भाषांतर, रूपांतर, अनुवाद, वक्तृत्व कला, नाट्यकला, या |
| Sem.II | | भराठा भाग- २ | कौशल्य | | Television Media Etc. skills अनुवादक | ties जनसंपर्कअधि कारी | al competenc e: pso- लेखन- संपादन, लेखनविद्या -, भाषांतर, रूपांतर, अनुवाद, वक्तृत्व कला, नाट्यकला, या अभिव्यक्तीच्या |
| Sem.II | | भराठा भाग- २ | कौशल्य | | Television Media Etc. skills अनुवादक | ties जनसंपर्कअधि कारी | al competenc e: pso- लेखन- संपादन, लेखनविद्या -, भाषांतर, रूपांतर, अनुवाद, वक्तृत्व कला, नाट्यकला, या अभिव्यक्तीच्या आविष्कार प्रकार |







| rice of the second seco | TULJAR of Arts, Religious Minority Cycle IV | ا التلائيتر المعاصر المعاص معاصر المعاصر المعاصم معاصر المعاصر المعاصر معاصر المع | | | | | |
|--|---|--|---|---|---|--|--|
| | AR420 arr HIRRAU HIRRAU HIRRAU Constraints of the second | ag Multi Language Ял दिलित कविता | Social & Regional Language Skills दलित आत्मकथन | Language Based Job Opportuni ties विश्ठेषक | समाजाच्या संदर्भातील भाषा व्यवहार याविषयीची आकल्नाची क्षमता विकसित होईल. CO- भाषा आणि समाज यांचा परस्पर संबंध लक्षात येईल. PO8: Critical Thinking and Problem solving: p S O - एक जबाबदार नागरिक या दृष्टीने नैतिक व सामाजिक मूल्ये, साहित्य व सामाजिक मूल्ये, या दृष्टीने नैतिक व सामाजिक मूल्ये, या दृष्टीने नैतिक व सामाजिक मूल्ये, या दिल्या ची जाणीव विकसित विद्यार्थ्यांची जाणीव विकसित होईल. Co- दलित साहित्य स्वरूप संकल्पनांचा परिचय होईल. | | |





NAAC-SSR

-mail : principal.tccollege@gmail.com

Cycle IV

2019 - 2024

प्रसारमा Languag M.A-II **MAR530** Multi Social & Language ध्यमे e Skill Sem. 1 Language Regional Based आणि III Skillsचित्रप Job Language वतपत्रातील साहित्य भाषा टातील भाषा Skills Opportuni व्यवहार ties समाज माध्यम मधील भाषा संपादक, दिग्दर्शक साहित्य M.A-II **MAR530** Multi Social & Languag Language समीक्षा Sem. 2 e Skill Regional Based Language समीक्षकाचे Skills III Language Job समीक्षकाचे गुण Skills Opportuni पत्थे समीक्षेच्या ties विविध पद्धती समीक्षक विचारवंत विशेष M.A-II **MAR530** Multi Social & Languag Language Sem. लेखका e Skill Regional Based Language 3 लेखन शैली चा III Skills Language Job लेखकाची अभ्यास Skills Opportuni लेखकाची जडणघडण ties सामाजिकता जीवन विषयक मध्यय् सांस्कृतिक दुष्टिकोन गीन परिप्रेक्ष वैचारि M.A-II **MAR530** Languag Multi Social & Language Regional Based Sem. 4 क e Skill Language साहित्य वैचारिक Skills III Language Job लेखक संत पंत तंत Skills Opportuni परंपरा निर्मिती मागील ties प्रेरणा व प्रवृत्ती प्रवचनकार भाषिक M.A-II SDC-1 Languag Multi Regional Transleter कौशल्ये Sem. e Skills Language Language s III Skills Skills भाषिक कौशल्य लेखन कौशल्य संकलन प्रसारमा M.A-II **MAR540** Languag Multi Social & Language ध्यमे Sem. 1 e Skill Language Regional Based आणि IV Skills Language Job वृतपत्रातील साहित्य Skills Opportuni व्यवहार भाषा ties



TULJARAM CHATURCHAND COLLEGE of Arts, Science and Commerce, Baramati - 413102. Dist. Pune. Maharashtra, India.



।। सिध्दिरनेकान्तात।।

Anekant Education Society's



Anekant Education Society's

TULJARAM CHATURCHAND COLLEGE

of Arts, Science and Commerce, Baramati - 413102.

Dist. Pune. Maharashtra, India. **Empowered Autonomous Status**

M.Sc. Ph.D. PRINCIPAL

NAAC-SSR

.-mail : principal.tccollege@gmail.com

Religious Minority Institute NAAC Reaccredited 'A+' Grade, CGPA 3.55 Cycle IV

2019 - 2024

| M.A-II Sem. IV | MAR540 2 | साहित्य संशोधन | Languag e Skill संशोधकाचे गुण | चित्रपटातील भाषा पटकथा लेखन Multi Language Skills संशोधन परंपरा | समाज माध्यम मधील भाषा Social & Regional Language Skills अंतर्विद्या क्षेत्रीय संशोधन | संपादक, विग्दर्शक पटकथा लेखक Language Based Job Opportuni ties संशोधक | |
|----------------------|-------------|--|--|---|---|---|--|
| | MAR540 3 | विशेष लेखका चा अभ्यास — मध्ययु गीन | Languag e Skill लेखन शैली | Multi Language Skills लेखकाची जडणघडण | Social & Regional Language Skills लेखकाची सामाजिकता सांस्कृतिक परिप्रेक्ष | Language Based Job Opportuni ties जीवन विषयक दृष्टिकोन | |
| | MAR540 4 | साहि त्याचा सामाजि क दुष्टीने अभ्यास | Languag e Skill लेखकाची सामाजिकता | Multi Language Skills सामाजिक बांधिलकी | Social & Regional Language Skills लेखक वाचक आणि भाषा सह्सबंध | Language Based Job Opportuni ties संशोधक | |
| | SDC-2 | भाषिक कौशल्ये | Languag e Skills भाषिक कौशल्य | Multi Language Skills लेखन कौशल्य | Regional Language Skills संकलन | Transleter s संवादक | |

Criteria I : Curricular Aspects 2020-21





PHILOSOPHY & LOGIC

| Progra mme | Cours e | Course Title | Topic in t to the dev | he syllabus velopmental | relevance | POs, PSO's & COs | |
|---|--------------|---------------------------------------|---|---|--|---|--|
| | Code | | Local | National | Regional | Global | |
| | | | | | | | |
| BA Philoso phy & Logic (UG) | PHIL1 101 | Introdu ction to Philoso phy | Value of philosop hy, Definiti on of knowled ge | Value of philosop hy, Definitio n of knowled ge, Introduct ion to nine Darsanas | Value of philosop hy, Introduct ion to nine Darsanas | Value of philoso phy, Definiti on of knowle dge, Introduc tion to nine Darsana s | PO1: Academ ic Compet ence: Explore various branches of Philosop hy and their interrelat ions CO1: The study of Philosop hy helps the study of Philosop hy helps the students to get acquaint ed with different schools of |
| | | | | | | | Indian philosop |



| real : principal.tecollege@gmail | ap .com I | ।। सिध्दिरनेकान्तात्।। Anekant Education Society's TULJARAM CHATURCHAND COLLEGE of Arts, Science and Commerce, Baramati - 413102. Dist. Pune. Maharashtra, India. Empowered Autonomous Status Religious Minority Institute NAAC Reaccredited 'A+' Grade, CGPA 3.55 Cycle IV 2019 - 2024 | | | | | | | |
|----------------------------------|--------------|--|--------------------|--------------------|--------------------|--------------------|--|--|--|
| | PHIL1 201 | Moral Philoso phy | Areas of Ethics | Areas of Ethics | Areas of Ethics | Areas of Ethics | hy CO2: Students learn new technical terminol ogies. PO1:Entrepren eurial and Social Competence: Apply ethical theories and principles in real life situations. CO1:Studies ethics theoretically and on a large scale. This helps students to judge our day-to-today practical issues quite reasonably. CO2:To rise social awareness | | |





NAAC-SSR

.-mail : principal.tccollege@gmail.com

।। सिध्दिरनेकान्तात्।। Anekant Education Society's

TULJARAM CHATURCHAND COLLEGE

of Arts, Science and Commerce, Baramati - 413102.

Dist. Pune. Maharashtra, India.

Empowered Autonomous Status

Religious Minority Institute NAAC Reaccredited 'A+' Grade, CGPA 3.55

Cycle IV

| LOG1 101 | Traditio n Logic (Deduct ive Logic) | Deducti ve and Inductiv e branches of logic | Deductiv e and Inductive branches of logic | | | CO1: Students get acquainted with the use of logical rules for identifying a valid argument CO2: Encourage of reason |
|--------------|---|---|---|---|---|---|
| LOG1 201 | Traditio n Logic (Inducti ve Logic) | Scientifi c Explanat ion- Kinds of scientifi c Explanat ion | Scientifi c Explanat ion- Kinds of scientific Explanat ion | Scientifi c Explanat ion- Kinds of scientific Explanat ion | Scientifi c Explana tion- Kinds of scientifi c Explana tion | PO1: Research Competence:L ogically assess the arguments with reference to their comparative strengths and weakness CO1: Students can understand characteristics of science CO2: Students well know how we can research scientifically CO3: Students can use the skills in competitive exam |
| PHIL2 301 | Philoso phy of | Concept | Concepti | Concepti | Concept | CO1: Enhances critical |





| | Indian Saints | ion of a Saint | on of a Saint | on of a Saint | ion of a Saint | thinking of students | |
|-------|------------------|-------------------|------------------|------------------|-------------------|---|---|
| | Saliits | Saint | Saint | Saint | Sam | CO2: Understand key Philosophical foundation of the Saints intellectual tradition, particularly insofar the tradition has addressed issues of basic Philosophy. CO3: To acquaint the student with the metaphysical, Stereological and social approaches of selected saints. | |
| PHIL2 | Philoso | Concept | Significa | Concepti | Signific | CO1: Enhances | |
| 101 | Indian | God | Pasaydan | God | Pasayda | thinking of | |
| | Saints | | 5 | | n | students | |
| | | | | | | СО2: То | |
| | | | | | | acquaint the | |
| | | | | | | student with the | |
| | | | | | | metaphysical, | |
| | | | | | | and social | |
| | | | | | | and social | 1 |





NAAC-SSR

।। सिध्दिरनेकान्तात्।।

Anekant Education Society's

TULJARAM CHATURCHAND COLLEGE

of Arts, Science and Commerce, Baramati - 413102.

Dist. Pune. Maharashtra, India.

Religious Minority Institute NAAC Reaccredited 'A+' Grade, CGPA 3.55

Empowered Autonomous Status

.-mail : principal.tccollege@gmail.com

Cycle IV

| | | | | | | approaches of |
|-------|---------|----------|----------|----------|--------|------------------|
| | | | | | | selected saints |
| PHIL2 | Indian | Carvaka | Theory | Carvaka | Theory | PO1:Academic |
| 302 | & | Philosop | of Forms | Philosop | of | Competence: |
| | Western | hy | | hy | Forms | (i) Know core |
| | Philoso | | | | | issues, |
| | phy | | | | | problems and |
| | | | | | | concerns in |
| | | | | | | both Indian and |
| | | | | | | Western |
| | | | | | | traditions. (ii) |
| | | | | | | Develop the |
| | | | | | | skills for oral |
| | | | | | | and written |
| | | | | | | communication |
| | | | | | | with special |
| | | | | | | 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, |



| المعالمة معالمة معالمة معالمة معالمة معالمة معالمة معالمة المعالمة معالمة م لمعالمة معالمة المعالمة المعالمة معالمة م معالمة معالمة معال معالمة معالمة معالمة معالمة معالمة معالمة معالمة معالمة معالمة معالمة معا | TULJ of A | ।। सिध्दिरनेकान्तात्।। Anekant Education Society's TULJARAM CHATURCHAND COLLEGE of Arts, Science and Commerce, Baramati - 413102. Dist. Pune. Maharashtra, India. Empowered Autonomous Status | | | | | | | |
|--|--|--|-------------------------|-------------------------|-------------------------|---|----------|--|--|
| mail : principal.tecollege@gmail.com | n Religious M | linority Instit | tute N | AAC Reacc | redited 'A+ | -' Grade , CGPA 3.55 | | | |
| NAAC-SSR | Cyc | le IV | | 2019 | - 2024 | | | | |
| | | | | | | Yoga, Nyāya, Vaišeşika, Mimāmsā and Vedānta as Āstika school, on the other hand CO2: Know core issues, problems and concerns in both Indian and Western traditions. CO3: To teach students the Importance of Moral Behavior and Familiarise them with the resolution of Value conflicts in today's life. | | | |
| P] 40 | HIL2 Indian D2 & Western Philoso phy | Four in the four i | Four noble truths | Four noble truths | Four noble truths | CO1:Students get acquainted with the epistemologica 1 and metaphysical theories of the western philosophers like Socrates, | ATURCHAN | | |



| المحمد ا محمد المحمد المح | tap il.com I | ।। सिध्दिरनेकान्तात्।। Anekant Education Society's TULJARAM CHATURCHAND COLLEGE of Arts, Science and Commerce, Baramati - 413102. Dist. Pune. Maharashtra, India. Empowered Autonomous Status Religious Minority Institute NAAC Reaccredited 'A+' Grade , CGPA 3.55 Cycle IV 2019 - 2024 | | | | | | |
|--|-----------------|--|--|-------------------------------|-------------------------------|--|--|--|
| | PHIL2 303 | Jain Philoso phy | A Historic al Develop ment of Jainism | Nature of Anekant avada | Nature of Anekant avada | Six Dravyas (Jiva, Pudgal, Dharma , Adharm a, Akasa, Kala) | Plato, Descartes, Spinoza, Leibnitz , Locke, Berkeley Hume and Kant. CO2: Know core issues, problems and concerns in both Indian and Western traditions. PO1: Entrepreneurial and Social Competence: Identify ethically relevant issues in contemporary life and to deliberate over them CO1: Learn to use Jain Philosophical theories to analyse situations and inform Judgments about Actions. | |









Cycle IV

Religious Minority Institute NAAC Reaccredited 'A+' Grade, CGPA 3.55

2019 - 2024

NAAC-SSR

| LOG2 | Formal | | | | | PO1: Personal |
|------|--------|---------|---------|---------|---------|-------------------|
| 301 | Logic | Symboli | Symboli | Symboli | Symboli | and |
| | C | c Logic | c Logic | c Logic | c Logic | Professional |
| | | - | - | - | - | Competence: |
| | | | | | | Process |
| | | | | | | information in |
| | | | | | | a logically |
| | | | | | | consistent |
| | | | | | | manner so as to |
| | | | | | | come up with |
| | | | | | | their own |
| | | | | | | position about a |
| | | | | | | certain topic. |
| | | | | | | CO1:Students |
| | | | | | | get acquainted |
| | | | | | | with the use of |
| | | | | | | logical rules for |
| | | | | | | identifying a |
| | | | | | | valid argument. |
| | | | | | | Along with |
| | | | | | | these, they also |
| | | | | | | learn |
| | | | | | | existential |
| | | | | | | import, |
| | | | | | | symbolic |
| | | | | | | interpretation, |
| | | | | | | constructing |
| | | | | | | tormal proof of |
| | | | | | | .validity, |
| | | | | | | proving |
| | | | | | | invalidity, |
| | | | | | | Quantification |
| | | | | | | meory |
| | | | | | | CO2: Studies |
| | | | | | | of logic |
| | | | | | | improve the |



| LOG2 Formal 401 Logic Predicate Logic Relation al Logic Relation al Logic Relation al Logic CO1: Rescarch Logic Predicate Relation al Logic CO1: Students arguments with reference to their comparative strengths and weaknesses. CO1:Students get acquainted with the use of logical rules for identifying a vail argument. | reasont of the second of the s | TULJ of A Religious M Cyc | ।। सिध्दिरनेकान्तात्।। Anekant Education Society's TULJARAM CHATURCHAND COLLEGE of Arts, Science and Commerce, Baramati - 413102. Dist. Pune. Maharashtra, India. Empowered Autonomous Status Religious Minority Institute NAAC Reaccredited 'A+' Grade , CGPA 3.55 Cycle IV 2019 - 2024 | | | | | | |
|--|--|------------------------------------|--|--------------------|--|----------------------|---|--|--|
| these, they also | | DG2 Formal Logic | Predicat e Logic | Predicate Logic | | Relation al Logic | 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. PO1: Research Competence through various prescribed means. PO1: Research compative strengths and reference to their comparative strengths and weaknesses. CO1:Students get acquainted with the use of logical rules for identifying a valid argument. Along with | | |



| Image: state of the state | An TULJARAM C of Arts, Science E Religious Minority Institute Cycle IV | ।। सिध्दिरनेकान्तात्।। nekant Education Society's CHATURCHAND COLLEGE and Commerce, Baramati - 413102. Dist. Pune. Maharashtra, India. Dist. Pune. Maharashtra, India. NAAC Reaccredited 'A+' Grade, CGPA 3.55 2019 - 2024 | |
|--|---|---|--|
| | | existential import, symbolic interpretation, constructing formal proof of .validity, proving invalidity, Quantification theoryCO2:Studies of logic improve the analytical skills and knowledge of the formal techniques of evaluating arguments and deductive. | |





SANSKRIT

| Progr | Course | Course | Topic in the syllabus which has relevance to the | | | POs, | |
|---------|--------|------------------|--|-------------------|-----------|-------------|---------------------|
| amme | Code | Title | developmental needs | | | PSO's | |
| | | | Local | Nation | Regional | Global | & COs |
| | | | | al | 0 | | |
| | SAN11 | | | Gaiast | Critical | Introductio | CO1 |
| | 01 | UCTION | | Oajasi otro No | Study of | n to Vadia | сот - То |
| | 01 | TO | | Honvot | Dondurong | li to vedic | loorn |
| | | IU SANGVD | | | randurang | Literature | the |
| | | JT | | e- A | asinakain | | alimna |
| | | | | from | | | gimps |
| | | LITERAL UDE I | | Domoho | | | Undin |
| | | UKE-I | | Pancha | | | Vedic Sonalui |
| | | | | tantra | | | |
| | | | | | | | l Titanat |
| | | | | | | | Literat |
| | | | | | | | ure |
| | | | | | | | CO2 - |
| BA | | | | | | | 10 |
| Sanskri | | | | | | | develo |
| t | | | | | | | p the |
| | | | | | | | aonny |
| (UG) | | | | | | | lo amiti a a 11 |
| | | | | | | | criticali |
| | | | | | | | y amalwaa |
| | | | | | | | analyse |
| | | | | | | | intornro |
| | | | | | | | t timespre |
| | | | | | | | t Songlari |
| | | | | | | | Saliskii t toyta |
| | | | | | | | i lexis |
| | | | | | | | PSO3. |
| | | | | | | | Discipl |
| | | | | | | | inary |
| | | | | | | | Knowl |
| | | | | | | | edge: |



| SAAC Reaccredied 'A+' Grave, CGPA 3.5 NAAC-SSR Cycle IV 2019 - 2024 Demon strate a blead of traditio nal knowle dge along with its applica tion in the modern lifestyl e. SAN12 INTROD UCTION Danve erah from from SANSKR Sarvadhar maparishad from from SANSKR CO4 - maparishad from from from SANSKR | स्विद्धन्वेवान्सम् स्वतंत्र प्रवृष्टेव्य नुळजाराम चतुरचंद नुळजाराम चतुरचंद महाविद्यालय, बारामती Prof. Dr. Avinash S. Jagtap 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 | | | | | | |
|---|--|---|--|---|--|--|--|--|
| NAAC-SSR Cycle IV 2019 - 2024 | <u>-mail</u> : principal.tccollege@gmail.com | Religious Minority Institute | NAAC Reaccredited 'A+' Grade, | CGPA 3.55 | | | | |
| SAN12INTROD 01Danve ControlSarvadhar ro sANSKR IT-IIDanve eSarvadhar ro ro sANSKRCO4 - ro ro sANSKRINTROD 01Danve UCTION ro SANSKR IT-IIDanve eSarvadhar ro ro ro sAnskrCO4 - ro ro ro sAnskrSAN12 01INTROD UCTION ro sAnskrDanve eSarvadhar ro ro ro ro sAnskrCO4 - ro ro ro sAnskrDanve ro ro sAnskrDanve ro ro ro ro sAnskrSarvadhar ro | NAAC-SSR | Cycle IV | 2019 - 2024 | / | | | | |
| Ethics: | SAN 01 | N12 INTROD UCTION TO SANSKR IT-II | Danve Sarvadhar erah maparishad from Mahab harat Image: Sarvadhar Image: Sarvadhar Sarvadhar Image | Demonstrate ablendoftraditionalknowledgealongwith itsapplication inthemodernlifestyle.CO4 -Toacquireresearch andinquiryskillsCO5 -Tocultivatepersonal andprofessionalcompetencePSO.9Ethics:Recogn | | | | |



| φιατορομικου γιατορομικου γιατορομικου | A TULJARAM of Arts, Science En Religious Minority Institute Cycle IV | ।। सिध्दिरनेकान्तात्।। nekant Education Society's CHATURCHAND e and Commerce, Barama Dist. Pune. Maharashtra, India. npowered Autonomous Status NAAC Reaccredited 'A+' Grade, 2019 - 2024 | COLLEGE ti - 413102. |
|--|--|--|--|
| SANG EN23 1 | G SANSKR 1.3 0 IT Shivarajgun avarnanam 2.2 Study of Krushi Parashara | I.4 Selection from Neetishatak a | ize differe nt value system s, includi ng their own, underst and the moral dimens ions of their decisio ns, and take respons ibility for their actions. CO2 - Explor e science in Sanskri t. CO1 - Create an interest and enthusi |



| المركز ماللة معالية المركز ماللة المركز ماللة | ।। सिध्दिरनेकान्तात्।। Anekant Education Society's TULJARAM CHATURCHAND COLLEGE of Arts, Science and Commerce, Baramati - 413102. Dist. Pune. Maharashtra, India. Empowered Autonomous Status | | | | | | |
|--|--|-------------------------------|--|--|--|--|--|
| -mail : principal.tccollege@gmail.com | Religious Minority Institute | NAAC Reaccredited 'A+' Grade, | CGPA 3.55 | | | | |
| NAAC-SSR | Cycle IV | 2019 - 2024 | <u> </u> | | | | |
| | | | asm to discove r less- discove red Sanskri t Texts. PSO6. Human Percept ion and Behavi our: Learnin g Texts to underst and human percept ion and behavi our is essenti al to improv e decisio n making process | | | | |
| SANC EN24 1 | G SANSKR 0 IT PARICH | Yaman 1.4 iymau Dakalabdhi | CO2 - Explor e | | | | |
| | AYA - 2 | | science | | | | |


| त्वज्जाराम चतुरचंद महाविद्यालय, बारामती Prof. Dr. Avinash S. Jagtap 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 | | | | | | | |
|---|--|----------------------------|--|--|--|--|--|--|
| <u>mail</u> : principal.tccollege@gmail.com | Religious Minority Institute | NAAC Reaccredited 'A+' Gra | de, CGPA 3.55 | | | | | |
| NAAC-SSR | Cycle IV | 2019 - 2024 | | | | | | |
| | | | in Sanskri t. CO1 - Create an interest and enthusi asm to discove r less- discove r less- discove r ed Sanskri t Texts. PSO6. Human Percept ion and Behavi our: Learnin g Texts to underst and human percept ion and behavi our: Learnin g Texts to underst and human percept ion and behavi our is essenti al to | | | | | |
| | | | e improv | | | | | |



| सिदिरनेवानसा अनेकांत पन्यूकेलन बीसावलीय तुळजाराम चतुरचंद महाविद्यालय, चारामती | ।। सिध्दिरनेकान्तात्।। Anekant Education Society's TULJARAM CHATURCHAND COLLEGE of Arts, Science and Commerce, Baramati - 413102. | | | | | | |
|--|--|-----------------------------|-----------------------------------|--|--|--|--|
| Prof. Dr. Avinash S. Jagtap M.Sc. Ph.D. PRINCIPAL | Dist. Pune. Maharashtra, India. Empowered Autonomous Status | | | | | | |
| -mail : principal.tccollege@gmail.com | Religious Minority Institute | NAAC Reaccredited 'A+' Grad | e, CGPA 3.55 | | | | |
| NAAC-SSR | Cycle IV | 2019 - 2024 | | | | | |
| | | | decisio n making process | | | | |



•



SOCIOLOGY

| Progra mme | Cours e | Course Title | Topic in th t | POs, PSO's & | | | |
|---------------|------------|-----------------|------------------|-----------------|------------|---------|------------------------|
| | Code | | Local | National | Regional | Global | COs |
| F.Y.B.A | SOC1 | Introducti | Sociology | Culture | Social | Social | COs: 1 |
| | 101 | on to | as a | and | Stratifica | Control | Student will |
| | SOC1 | Sociolog | Science | Socializat | tion and | | be able to |
| | 201 | У | | ion | Mobility | | explain |
| | | | | | | | social facts |
| | | | | | | | and society |
| | | | | | | | related |
| | | | | | | | concepts. |
| | | | | | | | COs: 2 |
| | | | | | | | Student will |
| | | | | | | | be able to |
| | | | | | | | define and |
| | | | | | | | explain |
| | | | | | | | sociological |
| | | | | | | | concepts. |
| | | | | | | | CUS: 5 Student will |
| | | | | | | | be able to |
| | | | | | | | define and |
| | | | | | | | show social |
| | | | | | | | fact |
| | | | | | | | COs^{1} 4 |
| | | | | | | | Student will |
| | | | | | | | be able to |
| | | | | | | | express |
| | | | | | | | empirical |
| | | | | | | | observation |
| | | | | | | | s with |
| | | | | | | | sociological |
| | | | | | | | concepts. |
| | | | | | | | 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 underst and social issues and are empow ered to face social proble ms. COs: 2 Studen ts are |





| | | | | | | | able to |
|--|------|----------------|----------|------------|-----------|----------|-------------|
| | | | | | | | underst |
| | | | | | | | and |
| | | | | | | | changi |
| | | | | | | | ng |
| | | | | | | | nature |
| | | | | | | | of |
| | | | | | | | social |
| | | | | | | | proble |
| | | | | | | | ms in |
| | | | | | | | India. |
| | | | | | | | Pos: 1 |
| | | | | | | | Studen |
| | | | | | | | ts are |
| | | | | | | | able to |
| | | | | | | | analyz |
| | | | | | | | e |
| | | | | | | | social |
| | | | | | | | issues |
| | | | | | | | and |
| | | | | | | | proble |
| | | | | | | | ms |
| | | | | | | | using |
| | | | | | | | differe |
| | | | | | | | nt |
| | | | | | | | sociolo |
| | | | | | | | gical |
| | | | | | | | perspe |
| | | | | | | | ctives. |
| | SOC2 | Foundati | Dominant | Sanskritiz | Theory of | Indology | COs: 1 |
| | 302 | on of | Caste | ation | Class | | Students |
| | | Sociologi | | | Strugle | | are |
| | | cal Thought | | | | | with social |
| | | Thought | | | | | 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 Indian sociologists |
|--|-------------|-------------------------------|-------------------------------|-------------------------------|---|-----------|---|
| | SOC2 301 | Populatio n and Society | Fertility and Mortality | populatio n and poverty | Nature and character istics of Indian populatio n | Migration | COs: 1 Students are able to understand the nature, scope and concepts related to population studies. COs: 2 Students are able to critically analyze the theoretical perspective of |



| मिदिरभेगाला अविकार प्रबुधेन्द्र असिम्बदीय तुळजाराम चतुरचंद महाविद्यालय, बारामती | ।। सिध्दिरनेकान्तात्।। Anekant Education Society's TULJARAM CHATURCHAND COLLEGE of Arts, Science and Commerce, Baramati - 413102. | | | | |
|--|--|---|--|--|--|
| M.Sc. Ph.D. PRINCIPAL | Empowered Autonomous Status | | | | |
| E-mail : principal.tccollege@gmail.com | Religious Minority Institute | NAAC Reaccredited 'A+' Grade, CGPA 3.55 | | | |
| NAAC-SSR | Cycle IV | 2019 - 2024 | | | |

| | | | | | | | | population studies. Pos: 1 Students are able to evaluate the population policy and population profile of India. | |
|---|---------|------|----------------|---------|-------|--------|---------|---|---|
| Ī | T.Y.B.A | SOC3 | Crime | Crime | Cyber | White | Crime | COs: 1 | |
| | • | 301 | anu Society | against | Crime | Collar | Womon | Acquire a | |
| | | | Society | NT | | Cline | w onnen | broad | |
| | | | | | | | | understandi | |
| | | | | | | | | ng of the | |
| | | | | | | | | theoretical | |
| | | | | | | | | and | |
| | | | | | | | | empirical | |
| | | | | | | | | approaches | |
| | | | | | | | | taken to | |
| | | | | | | | | understand | |
| | | | | | | | | the | |
| | | | | | | | | relationship | |
| | | | | | | | | between | |
| | | | | | | | | criminal | |
| | | | | | | | | behavior | |
| | | | | | | | | and social, | |
| | | | | | | | | cultural, | |
| | | | | | | | | and | |
| | | | | | | | | institutional | |
| | | | | | | | | forces. | |
| | | | | | | | | COs: | |
| | | | | | | | | 2Learn | |
| | | | | | | | | about the | 1 |
| | | | | | | | | current | |
| | | | | | | | | state of | E |





| | | | | | | 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 |
| | | | | | | g of |
| | | | | | | research on |
| | | | | | | the above |
| | | | | | | topics. |
| | | | | | | Pos: 1 |
| | | | | | | Identify |
| | | | | | | significant |
| | | | | | | new |
| | | | | | | research |
| | | | | | | questions |
| | | | | | | related to |
| | | | | | | the study of |
| | | | | | | crime in |
| | | | | | | society. |
| SOC3 | Contemp | Changing | Economic | Agricultu | Debates | COs: 1 |
| 503 | orary | nature of | Develop | re in Post | around | Students |
| | Indian | marriage,f | ment | Independ | lesbian, | are able to |
| | Society | | | | gay, | provide an |



| | | | |
|-----------|-------|-----------|---------------|
| amily and | ence | bisexual, | Introductio |
| household | India | transgend | n of Social |
| | | er & | Structure & |
| | | queer(LG | Social |
| | | BIQ) | Change. |
| | | | COs: 2 |
| | | | Students |
| | | | are able to |
| | | | understand |
| | | | the building |
| | | | of modern |
| | | | India as a |
| | | | nation in its |
| | | | complete |
| | | | complexity. |
| | | | Pos: 1 |
| | | | Comprehen |
| | | | d the |
| | | | historical |
| | | | context to |
| | | | the current |
| | | | socio- |
| | | | economic |
| | | | trends and |
| | | | problems |
| | | | confronted |
| | | | by |
| | | | Contempor |
| | | | ary India. |





BBACA

| Progra mme | Cou | Course | Topic in the develop | elevance to | POs, PSO's | | |
|--|---------------------|---------------------------------|--|--|--|--|---|
| mme | Cod | THE | Local | National | Regional | Global | u 005 |
| | e | | | | | | |
| BBA (Comp uter Applica tion) (UG) | BC A 110 1 | Logic in Computer Science | Propositio nal Logic, Predicate Logic, Program Verificati on | Propositio nal Logic, Predicate Logic, Program Verificati on | Propositio nal Logic, Predicate Logic, Program Verificati on | Propositio nal Logic, Predicate Logic, Program Verificati on | CO1. Understanding formal logic helps students develop a structured approach to problem- solving. It enables them to break down complex problems into smaller, more manageable components. CO2.Fundamen tal concepts in propositional, predicate and temporal logic and apply resolution techniques. CO3. Students should able to apply the concept of program verification in real-world scenarios PO1. Knowledge: To |





| | | | | | | understand and apply the fundamental principles, concepts, and methods in diverse areas of computer science, computer applications, management, mathematics, statistics, etc. |
|---------------------|------------------------------|---|---|---|---|---|
| BC A 110 2 | Data Structure using C | Searching , Sorting, Looping, Function, LinkedLis t, Stack, Queue | Searching , Sorting, Looping, Function, Linked list, Stack, Queue | Searching , Sorting, Looping, Function, LinkedLis t, Stack, Queue | Searching , Sorting, Looping, Function, LinkedLis t, Stack, Queue | CO1: Define data structures like array, stack, queues and linked list. CO5. Choose appropriate data structure while designing the algorithm. CO7. Develop programming skills which require to solve given problem. PO2. Problem Analysis: Identify, analyse and formulate complex real- life computing |





| | | | | | | problems. Attain substantiated conclusions to solve the problems using fundamental principles of computer science and application domains by using various tools and emerging technologies. |
|---------------------|----------------------------|--|--|--|--|--|
| BC A 110 3 | Business Accounti ng | Financial Accountin g, Accountin g Policies, Journals Ledger | Financial Accountin g, Accountin g Policies, Journals Ledger | Financial Accountin g, Accountin g Policies, Journals Ledger | Financial Accountin g, Accountin g Policies, Journals Ledger | CO1. Define book-keeping and accounting. CO3. Describe the main elements of financial accounting information – assets, liabilities, revenue and expenses. CO7.Students will recognize commonly used financial statements, their |





| | | | | | | components and how information from business transactions flows into these |
|-----------------|----------|----------|----------|----------|----------|---|
| | | | | | | state |
| | | | | | | ments |
| | | | | | | PO1. |
| | | | | | | Knowledge: To |
| | | | | | | apply the |
| | | | | | | fundamental |
| | | | | | | principles, |
| | | | | | | concepts, and |
| | | | | | | methods in |
| | | | | | | diverse areas of |
| | | | | | | computer |
| | | | | | | science, |
| | | | | | | applications |
| | | | | | | management, |
| | | | | | | mathematics, |
| | | | | | | statistics, etc. |
| | | | | | | |
| BC | Business | Media of | Media of | Media of | Media of | CO1. |
| A 110 | Communi | Communi | Communi | Communi | Communi | Communicate |
| $\frac{110}{4}$ | Cation | Oral | Oral | Oral | Oral | real life |
| • | | Communi | Communi | Communi | Communi | situation. |
| | | cation | cation | cation | cation | CO2. |
| | | | | | | Demonstrate |
| | | | | | | the use of |
| | | | | | | basic and |
| | | | | | | advanced |
| | | | | | | business |
| | | | | | | witting Skills. |





| | | | | | CO2 Draduce |
|---|---|---|---|---|----------------|
| | | | | | COS. Produce |
| | | | | | clear and |
| | | | | | concise |
| | | | | | written |
| | | | | | business |
| | | | | | documents. |
| | | | | | CO4. Develop |
| | | | | | interpersonal |
| | | | | | communicatio |
| | | | | | ns skills that |
| | | | | | are required |
| | | | | | for social and |
| | | | | | business |
| | | | | | interaction. |
| | | | | | PO10. |
| | | | | | Communicati |
| | | | | | on: Able to |
| | | | | | use |
| | | | | | interpersonal |
| | | | | | skills and |
| | | | | | communicate |
| | | | | | effectively |
| | | | | | with |
| | | | | | the |
| | | | | | professionals |
| | | | | | and with |
| | | | | | society to |
| | | | | | convey |
| | | | | | technical |
| | | | | | information |
| | | | | | effectively |
| | | | | | and |
| | | | | | accurately |
| | | | | | and able to |
| | | | | | comprehend |
| | | | | | and write |
| | | | | | and write |
| | | | | | roports |
| | | | | | degion |
| | | | | | design |
| | | | | | aocumentatio |
| 1 | 1 | 1 | 1 | 1 | in. N |





| BC A 110Principles and of ManagemTime ManagemTime ManagemTime ManagemTime ManagemTime ManagemCO4. Analyze the role of planning and decision5of of ManagemLeadershi LeadershiLeadershi LeadershiLeadershi LeadershiLeadershi LeadershiLeadershi DecisionLeadershi DecisionCO5. Utilize making.6Managem ent and Organizat ional Behavioup, entp, entp, entp, entp, entp, entp, ent7Finite and of and behaviouMaking entMaking e | | | | | | | and make effective presentations. |
|---|---------------------|---|---|--|---|---|--|
| Indictions within organizational structures. CO7. Identify fundamental concepts and principles for managing organizations and employees. PO8. Life- Long Learning: Recognize the | BC A 110 5 | Principles and Practices of Managem ent and Organizat ional 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 | CO4. Analyze the role of planning and decision making. CO5. Utilize interpersonal communicatio n and conflict management effectively in a diverse organizational setting CO6. Analyze how teams and groups act as supportive functions within organizational structures. CO7. Identify fundamental concepts and principles for managing organizations and employees. PO8. Life- Long Learning: Recognize the |





| | | | | | | need and have the ability to engage in independent continuous reflective learning in the context of technological | |
|---------------------|--|--|---|---|---|---|--|
| BC A 110 6 | Practical Lab-I [Based on BCA110 2 and BCA 1103] | Array, String, Function, Linked List Stack, Queue, Assignme nt using Tally. | Array, String, Function, Linked List Stack, Queue | Array, String, Function, Linked List Stack, Queue | Array, String, Function, Linked List Stack, Queue | advancementCO1.Implement linear andnonlinear datastructuresusing linkedlist.CO2.Applyvarious datastructuressuch as stack,queue andtree to solvethe problems.CO3.Implement varioussearching andsortingtechniques.CO6. Designprograms forsolvingproblemsusingdifferent datastructures.CO7Implementbasic datastructures andapplications.Also learn | |





| | | | | | | about the application of computers in accounting. PO4.Conduct investigations of complex problems: Ability to research, analyze and Investigate complex computing problems through the design of experiments, analysis, and interpretation of data, and synthesis of the |
|---------------------|---|---|---|---|---|--|
| | | | | | | arrive at valid conclusions. |
| BC A 120 1 | Object Oriented Program ming using C++ | Concepts of OOP, Inheritanc e, Classes and Objects, Working with files | CO1.Explain the basic concepts of object oriented programming language and their representation CO2. Illustrate dynamic |





| memory allocation functions, access specifiers and the friend functions. CO3. Demonstrate the use of constructors, destructors and also the behavior of inheritance and its implementatio n. CO7.Develop an application using the concepts of OOPS and associated concepts for complex problem. PO3. Design and Development: Design and develop efficient | | | | |
|---|--|--|--|-------------------|
| allocation functions, access specifiers and the friend functions. CO3. Demonstrate the use of constructors, destructors and also the behavior of inheritance and its implementatio n. CO7.Develop an application using the concepts of OOPS and associated concepts of OOPS and associated concepts for complex. problem. PO3. Design and Development: Design and develop efficient | | | | memory |
| Image: Second | | | | allocation |
| access specifiers and the friend functions. CO3. Demonstrate the use of constructors, destructors and also the behavior of inheritance and its implementatio n. CO7.Develop an application using the concepts of OOPS and associated concepts for complex problem. PO3. Design and Development: Design and develop efficient | | | | functions, |
| specifiers and the friend functions. CO3. Demonstrate the use of constructors, destructors and also the behavior of inheritance and its implementation n. CO7.Develop an application using the concepts of OOPS and associated concepts for complex problem. PO3. Design and Development: Design and develop efficient | | | | access |
| the friend functions. CO3. Demonstrate the use of constructors, destructors and also the behavior of inheritance and its implementatio n. CO7.Develop an application using the concepts of OOPS and associated concepts for complex problem. PO3. Design and Development: Design and develop efficient | | | | specifiers and |
| functions. CO3. Demonstrate the use of constructors, destructors and also the behavior of inheritance and its implementatio n. CO7.Develop an application using the concepts of OOPS and associated concepts for complex problem. PO3. Design and Development: Design and develop efficient | | | | the friend |
| CO3. Demonstrate the use of constructors, destructors and also the behavior of inheritance and its implementatio n. CO7.Develop an application using the concepts of OOPS and associated concepts for complex problem. PO3. Design and Development: Design and develop efficient | | | | functions. |
| Demonstrate the use of constructors, destructors and also the behavior of inheritance and its implementatio n. CO7.Develop an application using the concepts of OOPS and associated concepts for complex problem. PO3. Design and Development: Design and develop efficient | | | | CO3. |
| the use of constructors, destructors and also the behavior of inheritance and its implementatio n. CO7.Develop an application using the concepts of OOPS and associated concepts for complex problem. PO3. Design and Development: Design and develop efficient | | | | Demonstrate |
| constructors, destructors and also the behavior of inheritance and its implementatio n. CO7.Develop an application using the concepts of OOPS and associated concepts for complex problem. PO3. Design and Development: Design and develop efficient | | | | the use of |
| destructors, and also the behavior of inheritance and its implementatio n. CO7.Develop an application using the concepts of OOPS and associated concepts for complex problem. PO3. Design and Development: Design and develop efficient | | | | constructors |
| and also the behavior of inheritance and its implementatio n. CO7.Develop an application using the concepts of OOPS and associated concepts for complex problem. PO3. Design and Development: Design and develop efficient | | | | destructors |
| and also the behavior of inheritance and its implementatio n. CO7.Develop an application using the concepts of OOPS and associated concepts for complex problem. PO3. Design and Development: Design and develop efficient | | | | and also the |
| inheritance and its implementatio n. CO7.Develop an application using the concepts of OOPS and associated concepts for complex problem. PO3. Design and Development: Design and develop efficient | | | | hebayior of |
| and its implementatio n. CO7.Develop an application using the concepts of OOPS and associated concepts for complex problem. PO3. Design and Development: Design and develop efficient | | | | inhoriton co |
| and its implementatio n. CO7.Develop an application using the concepts of OOPS and associated concepts for complex problem. PO3. Design and Development: Design and develop efficient | | | | and its |
| n. CO7.Develop an application using the concepts of OOPS and associated concepts for complex problem. PO3. Design and Development: Design and develop efficient | | | | and its |
| h. CO7.Develop an application using the concepts of OOPS and associated concepts for complex problem. PO3. Design and Development: Design and develop efficient | | | | Implementatio |
| an application using the concepts of OOPS and associated concepts for complex problem. PO3. Design and Development: Design and develop efficient | | | | n. CO7 Deceler |
| an application using the concepts of OOPS and associated concepts for complex problem. PO3. Design and Development: Design and develop efficient | | | | CO7.Develop |
| using the concepts of OOPS and associated concepts for complex problem. PO3. Design and Development: Design and develop efficient | | | | an application |
| Concepts of OOPS and associated concepts for complex problem. PO3. Design and Development: Design and develop efficient | | | | using the |
| OOPS and associated concepts for complex problem. PO3. Design and Development: Design and develop efficient | | | | concepts of |
| associated concepts for complex problem. PO3. Design and Development: Design and develop efficient | | | | OOPS and |
| concepts for complex problem. PO3. Design and Development: Design and develop efficient | | | | associated |
| complex problem. PO3. Design and Development: Design and develop efficient | | | | concepts for |
| problem. PO3. Design and Development: Design and develop efficient | | | | complex |
| PO3. Design and Development: Design and develop efficient | | | | problem. |
| and Development: Design and develop efficient | | | | PO3. Design |
| Development: Design and develop efficient | | | | and |
| Design and develop efficient | | | | Development: |
| develop efficient | | | | Design and |
| efficient | | | | develop |
| | | | | efficient |
| solutions for | | | | solutions for |
| complex real- | | | | complex real- |
| world | | | | world |
| computing | | | | computing |
| problems and | | | | problems and |
| design system | | | | design system |
| components | | | | components |





| | | | | | | | or processes that meet the specified needs with appropriate consideration for public health and safety and the cultural, societal, and environmental considerations |
|-------------------|---------------|----------------------------|---|---|---|---|--|
| B A 12 2 | 3C A 20 | Database Managem ent | Relational Model, Us ers, Views, Schema, DDL Command Recovery System | Relational Model, Users, Views, Schema, DDL Command Recovery System | Relational Model, Us ers, Views, Schema, DDL Command Recovery System | Relational Model, Us ers, Views, Schema, DDL Command Recovery System | CO1. Understand the fundamental concepts of database, relation, relational models and algebra, SQL, and normalization algorithms CO2.Construc t an Entity- Relationship (E-R) model from specification and transform it to a relational model. CO3. Analyze the principle input and |





| | | | output |
|--|--|--|---------------|
| | | | parameters of |
| | | | DBMS as |
| | | | applicable to |
| | | | database |
| | | | manipulation |
| | | | strategies. |
| | | | CO4.Construc |
| | | | t queries in |
| | | | SQL or |
| | | | relational |
| | | | Algebra to |
| | | | perform |
| | | | CURD |
| | | | (Create |
| | | | Update, |
| | | | Retrieve and |
| | | | Delete) |
| | | | operations on |
| | | | database. |
| | | | PO3. Design |
| | | | and |
| | | | Development: |
| | | | Design and |
| | | | develop |
| | | | efficient |
| | | | solutions for |
| | | | complex real- |
| | | | world |
| | | | computing |
| | | | problems and |
| | | | design system |
| | | | components |
| | | | or processes |
| | | | that meet the |
| | | | specified |
| | | | needs with |
| | | | appropriate |
| | | | consideration |
| | | | for public |





| | | | | | | health and safety and the cultural, societal, and environmental considerations |
|---------------------|-----------------------------|--|--|--|--|---|
| BC A 120 3 | Software Engineeri ng | Analysis and Design Tools, Software Models, Testing & Maintena nce | Analysis and Design Tools, Software Models, Testing & Maintena nce | Analysis and Design Tools, Software Models, Testing & Maintena nce | Analysis and Design Tools, Software Models, Testing & Maintena nce | CO2.Decomp ose the given project in various phases of a lifecycle. CO3.Analyze the suitability of chosen model using different UML diagrams for a given problem. CO4. Perform various life cycle activities like Analysis, Design, Implementati on, Testing and Maintenance CO7.Apply the knowledge, techniques, and skills in the development |





| | | | | | | of a software product PO8. Life- Long Learning: Recognize the need and have the ability to engage in independent continuous reflective learning in the context of technological advancement. |
|---------------------|--------------------------------|--|--|--|--|--|
| BC A 120 4 | Technical Report Writing | Structure and Layout, Planning and Preparatio n, Technical Communi cation, Report Writing | Structure and Layout, Planning and Preparatio n, Technical Communi cation, Report Writing | Structure and Layout, Planning and Preparatio n, Technical Communi cation, Report Writing | Structure and Layout, Planning and Preparatio n, Technical Communi cation, Report Writing | CO1:Produce a documentation plan, including estimates and schedules CO2: Design and structure a document by analyzing the readership and selecting the right information. CO3. Students will learn to write technical reports that serve the purpose of providing clearly |





| | | | understandabl |
|--|--|--|-----------------|
| | | | e information |
| | | | for readers |
| | | | CO4. |
| | | | Students will |
| | | | also learn and |
| | | | apply easy |
| | | | writing |
| | | | techniques |
| | | | that will |
| | | | reduce their |
| | | | report |
| | | | writing time |
| | | | and will |
| | | | improve the |
| | | | mprove the |
| | | | quality of |
| | | | DOQ Life |
| | | | PO8. Lile- |
| | | | Long |
| | | | Learning: |
| | | | Recognize the |
| | | | need and have |
| | | | the ability to |
| | | | engage in |
| | | | independent |
| | | | continuous |
| | | | reflective |
| | | | learning in the |
| | | | context of |
| | | | technological |
| | | | advancement. |
| | | | PO10.Commu |
| | | | nication: |
| | | | Able to use |
| | | | interpersonal |
| | | | skills and |
| | | | communicate |
| | | | effectively |
| | | | with |
| | | | the |
| | | | professionals |





| | | | | | | and with society to convey technical information effectively and accurately and able to comprehend and write effective reports, design documentatio n, and make effective presentations. |
|---------------------|--------------------------|--|---|---|---|---|
| BC A 120 5 | Business Commerc e | Functions of E- commerc e, Electroni c Business, Electroni c payment System, Internet Marketin g | Functions of E- commerce , Electronic Business, Electronic payment System, Internet Marketing | Functions of E- commerce , Electronic Business, Electronic payment System, Internet Marketing | Functions of E- commerce , Electronic Business, Electronic payment System, Internet Marketing | CO1. Gain an understanding on how innovative use of the Business Commerce can help developing competitive advantages. CO2. Understand the basics of E- commerce, current and emerging business models. |





| | I | 1 | 1 | | | | 1 |
|---|-----|-----------|------------|------------|------------|------------|------------------|
| | | | | | | | CO6. |
| | | | | | | | Understand |
| | | | | | | | the |
| | | | | | | | importance of |
| | | | | | | | security, |
| | | | | | | | privacy, |
| | | | | | | | ethical and |
| | | | | | | | legal issues |
| | | | | | | | of e- |
| | | | | | | | commerce. |
| | | | | | | | CO7. |
| | | | | | | | Understand |
| | | | | | | | the |
| | | | | | | | implementat |
| | | | | | | | ion of |
| | | | | | | | Electronic |
| | | | | | | | Data |
| | | | | | | | Interchange |
| | | | | | | | (EID) in day |
| | | | | | | | to day life. |
| | | | | | | | PO1. |
| | | | | | | | Knowledge: |
| | | | | | | | To understand |
| | | | | | | | and apply the |
| | | | | | | | fundamental |
| | | | | | | | principles, |
| | | | | | | | concepts, and |
| | | | | | | | methods in |
| | | | | | | | diverse areas |
| | | | | | | | of computer |
| | | | | | | | science, |
| | | | | | | | computer |
| | | | | | | | applications, |
| | | | | | | | management, |
| | | | | | | | mathematics, |
| | | | | | | | statistics, etc. |
| | | | | | | | |
| | BC | Practical | Inheritanc | Inheritanc | Inheritanc | Inheritanc | CO1.Implemen |
| | Ā | Lab- II | e, | e. | e. | e. | object oriented |
| | 120 | | Function | Function | Function | Function | concepts such |
| 1 | - | 1 | | | | | |



| | [Based on | Overloadi | Overloadi | Overloadi | Overloadi | abstraction and |
|--|-----------|-----------|-----------|-----------|-----------|-----------------|
| | BCA120 | ng, | ng, | ng, | ng, | message |
| | 1 and | file | file | file | file | passing |
| | BCA120 | handling | handling | handling | handling | CO5.Demonstra |
| | 2] | C | C C | C | C | te SQL queries |
| | - | | | | | using SQL |
| | | | | | | operators and |
| | | | | | | Explain the |
| | | | | | | concept of |
| | | | | | | relational |
| | | | | | | algebra. |
| | | | | | | CO6.Implemen |
| | | | | | | various queries |
| | | | | | | using date and |
| | | | | | | group functions |
| | | | | | | and elaborate |
| | | | | | | nested queries. |
| | | | | | | PO2. Problem |
| | | | | | | Analysis: |
| | | | | | | Identify. |
| | | | | | | analyse and |
| | | | | | | formulate |
| | | | | | | complex real- |
| | | | | | | life |
| | | | | | | computing |
| | | | | | | problems. |
| | | | | | | Attain |
| | | | | | | substantiated |
| | | | | | | conclusions to |
| | | | | | | solve the |
| | | | | | | problems |
| | | | | | | using |
| | | | | | | fundamental |
| | | | | | | principles of |
| | | | | | | computer |
| | | | | | | science and |
| | | | | | | application |
| | | | | | | domains by |
| | | | | | | using various |
| | | | | | | tools and |





| | | | | | | emerging technologies. PO3. Design and Development: Design and develop efficient solutions for complex real- world computing problems and design system components or processes that meet the specified needs with appropriate consideration for public health and safety and the cultural, societal, and environmental considerations |
|---------------------|-------------------------|--|--|--|--|---|
| BC A 230 1 | 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 | CO5. Able to develop multithreaded applications with synchronizati on. CO6. Able to develop applets for |





| | | | |
|--|--|--|----------------|
| | | | web |
| | | | applications. |
| | | | CO7. Develop |
| | | | software in |
| | | | the Java |
| | | | programming |
| | | | longuaga |
| | | | DO2 Drohlom |
| | | | PO2. Problem |
| | | | Analysis: |
| | | | Identify, |
| | | | analyse and |
| | | | formulate |
| | | | complex real- |
| | | | life |
| | | | computing |
| | | | problems. |
| | | | Attain |
| | | | substantiated |
| | | | conclusions to |
| | | | solve the |
| | | | problems |
| | | | using |
| | | | fundamental |
| | | | principles of |
| | | | computer |
| | | | science and |
| | | | application |
| | | | domains by |
| | | | using various |
| | | | tools and |
| | | | amerging |
| | | | tachnologias |
| | | | DO2 Design |
| | | | rus. Design |
| | | | |
| | | | Development: |
| | | | Design and |
| | | | develop |
| | | | etficient |
| | | | solutions for |
| | | | complex real- |





| | | | | | | world computing problems and design system components or processes that meet the specified needs with appropriate consideration for public health and safety and the cultural, societal, and environmental considerations |
|---------------------|-------------------------|---|---|---|---|--|
| BC A 230 2 | Web Technolo gies | HTML5, Canvas, CSS3, jQuery, JavaScript | HTML5, Canvas, CSS3, jQuery, JavaScript | HTML5, Canvas, CSS3, jQuery, JavaScript | HTML5, Canvas, CSS3, jQuery, JavaScript | CO2. Communicate effectively through written and oral means, demonstrating the ability to document and present web development projects. CO3. Students should be able to create responsive web designs. CO4. Students |





| | | | should be |
|--|--|--|----------------|
| | | | able to |
| | | | comprehend |
| | | | the basic |
| | | | concepts of |
| | | | the World |
| | | | Wide Web, |
| | | | Including the |
| | | | client-server |
| | | | architecture, |
| | | | protocols |
| | | | (HTTP/HTT |
| | | | PS), and the |
| | | | role of web |
| | | | browsers. |
| | | | PO2. Problem |
| | | | Analysis: |
| | | | Identify. |
| | | | analyse and |
| | | | formulate |
| | | | complex real- |
| | | | life |
| | | | computing |
| | | | problems. |
| | | | Attain |
| | | | substantiated |
| | | | conclusions to |
| | | | solve the |
| | | | problems |
| | | | using |
| | | | fundamental |
| | | | principles of |
| | | | computer |
| | | | science and |
| | | | application |
| | | | domains by |
| | | | using various |
| | | | tools and |
| | | | emerging |
| | | | technologies. |





| | | | | | | PO3. Design |
|----------|---------|-------------|-------------|-------------|-------------|----------------|
| | | | | | | and |
| | | | | | | Development: |
| | | | | | | Design and |
| | | | | | | develop |
| | | | | | | efficient |
| | | | | | | solutions for |
| | | | | | | complex real- |
| | | | | | | world |
| | | | | | | computing |
| | | | | | | problems and |
| | | | | | | design system |
| | | | | | | components |
| | | | | | | or processes |
| | | | | | | that meet the |
| | | | | | | specified |
| | | | | | | needs with |
| | | | | | | appropriate |
| | | | | | | consideration |
| | | | | | | for public |
| | | | | | | health and |
| | | | | | | safety and the |
| | | | | | | cultural, |
| | | | | | | societal, and |
| | | | | | | environmental |
| | | | | | | considerations |
| | | | | | | • |
| DC | D. d | | | | 26.1.1 | COAD : |
| BC | Python | Modules, | Modules, | Modules, | Modules, | CO2.Design |
| A 220 | Program | Function, | Function, | Function, | Function, | and develop |
| 230 | ming | list Tuple, | list Tuple, | list Tuple, | list Tuple, | Python |
| 3 | | Set, | Set, | Set, | Set, | applications. |
| | | Dictionar | Dictionar | Dictionar | Dictionar | CO3. Design |
| | | У | У | У | У | |
| | | | | | | implement |
| | | | | | | iunctions for |
| | | | | | | code |
| | | | | | | modularity, |
| | | | | | | reusability, |
| | | | | | | and |
| | | | | | | maintainabilit |





| | | | у. |
|--|--|--|----------------|
| | | | CO4. Apply |
| | | | principles of |
| | | | OOP, |
| | | | including |
| | | | classes, |
| | | | objects. |
| | | | inheritance. |
| | | | encapsulation. |
| | | | and |
| | | | polymorphis |
| | | | m in Python |
| | | | programming |
| | | | PO2 Problem |
| | | | Δnalysis |
| | | | Identify |
| | | | analyse and |
| | | | formulato |
| | | | complex real |
| | | | life |
| | | | |
| | | | computing |
| | | | problems. |
| | | | Attain |
| | | | substantiated |
| | | | conclusions to |
| | | | solve the |
| | | | problems |
| | | | using |
| | | | fundamental |
| | | | principles of |
| | | | computer |
| | | | science and |
| | | | application |
| | | | domains by |
| | | | using various |
| | | | tools and |
| | | | emerging |
| | | | technologies. |
| | | | PO3. Design |
| | | | and |
| | | | Development: 🕅 |





| | | | | | | Design and |
|-----|-----------|------------|-----------|-----------|-----------|----------------|
| | | | | | | develop |
| | | | | | | efficient |
| | | | | | | solutions for |
| | | | | | | complex real- |
| | | | | | | world |
| | | | | | | computing |
| | | | | | | problems and |
| | | | | | | design system |
| | | | | | | components |
| | | | | | | or processes |
| | | | | | | that meet the |
| | | | | | | specified |
| | | | | | | needs with |
| | | | | | | appropriate |
| | | | | | | consideration |
| | | | | | | for public |
| | | | | | | health and |
| | | | | | | safety and the |
| | | | | | | cultural, |
| | | | | | | societal, and |
| | | | | | | environmental |
| | | | | | | considerations |
| | | | | | | • |
| BC | Operating | Memory | Memory | Memory | Memory | CO2. |
| А | System | Managem | managem | Managem | managem | Demonstrate |
| 230 | 5 | ent, | ent, | ent, | ent, | the |
| 4 | | process | process | process | process | knowledge of |
| | | managem | managem | managem | managem | the |
| | | ent Basics | ent, | ent, | ent, | components |
| | | of Linux, | Basics of | Basics of | Basics of | of computer |
| | | Schedulin | Linux, | Linux, | Linux, | and their |
| | | g | Schedulin | Schedulin | Schedulin | respective |
| | | Algorithm | g | g | g | roles |
| | | S | Algorithm | Algorithm | Algorithm | in computing. |
| | | | S | S | S | CO5. Identify |
| | | | | | | different |
| | | | | | | types of disk |
| | | | | | | scheduling |
| | | | | | | algorithms. |





| | | | | | | CO6. Understand the concepts of secondary storage structure, protection and case study of Linux operating system. PO1. Knowledge: To understand and apply the fundamental principles, concepts, and methods in |
|-----|------------|-------------|-------------|-------------|-------------|--|
| | | | | | | protection and case study of |
| | | | | | | Linux |
| | | | | | | operating |
| | | | | | | system |
| | | | | | | PO1 |
| | | | | | | Knowledge: |
| | | | | | | To understand |
| | | | | | | and apply the |
| | | | | | | fundamental |
| | | | | | | principles, |
| | | | | | | concepts, and |
| | | | | | | methods in |
| | | | | | | diverse areas |
| | | | | | | of computer |
| | | | | | | science, |
| | | | | | | computer |
| | | | | | | applications, |
| | | | | | | management, |
| | | | | | | mathematics, |
| | | | | | | statistics, etc. |
| | | | | | | |
| BC | Business | Probabilit | Probabilit | Probabilit | Probabilit | CO1. |
| А | Statistics | y and | y and | y and | y and | Develop |
| 230 | using R | Probabilit | Probabilit | Probabilit | Probabilit | proficiency in |
| 5 | Program | У | у | у | у | using |
| | ming | distributio | distributio | distributio | distributio | statistical |
| | | ns, | ns, | ns, | ns, | tools and |
| | | Program | Program | Program | Program | software |
| | | ming in R | ming in R | ming in R | ming in R | CO2. Apply |
| | | | | | | mathematical |
| | | | | | | and statistical |
| | | | | | | techniques to |





| | | | analyze and |
|--|--|--|------------------|
| | | | interpret data. |
| | | | PO1. |
| | | | Knowledge: |
| | | | To understand |
| | | | and apply the |
| | | | fundamental |
| | | | principles, |
| | | | concepts, and |
| | | | methods in |
| | | | diverse areas |
| | | | of computer |
| | | | science. |
| | | | computer |
| | | | applications. |
| | | | management. |
| | | | mathematics. |
| | | | statistics. etc. |
| | | | PO2. Problem |
| | | | Analysis: |
| | | | Identify. |
| | | | analyse and |
| | | | formulate |
| | | | complex real- |
| | | | life |
| | | | computing |
| | | | problems. |
| | | | Attain |
| | | | substantiated |
| | | | conclusions to |
| | | | solve the |
| | | | problems |
| | | | using |
| | | | fundamental |
| | | | principles of |
| | | | computer |
| | | | science and |
| | | | application |
| | | | domains by |
| | | | using various |
| | | | tools and |





| | | | | | | emerging technologies. |
|---------------------|---|---|--|--|--|--|
| BC A 230 6 | Computer Laborator y I (Based on BCA 2301 & BCA 2302) | Applet, AWT and Swing Program ming HTML5, CSS3 jQuery, JavaScript | Applet, AWT and Swing Program ming HTML5, CSS3, jQuery, JavaScript | Applet, AWT and Swing Program ming HTML5, CSS3, jQuery, JavaScript | Applet, AWT and Swing Program ming HTML5, CSS3, jQuery, JavaScript | CO2: Apply JDBC techniques to analyze and interpret data.CO3: Apply knowledge of Servlet Programming and JSP to solve real- world problems. CO6: Apply Web Services and Programming Interfaces and methods to design experiments and analyze data. PO3. Design and Development: Design and develop efficient solutions for complex real- world computing problems and design system components |




| | | | | | | or processes that meet the specified needs with appropriate consideration for public health and safety and the cultural, societal, and environmental considerations PO4.Conduct investigations of complex problems: Ability to research, analyze and Investigate complex computing problems through the design of experiments, analysis, and interpretation of data, and synthesis of the information to arrive at valid conclusions. |
|----|---------------|----------------|----------------|----------------|----------------|--|
| BC | Compute | String, | String, | String, | String, | CO2. |
| A | r Laborato | List, Tuple | List, Tuple | List, Tuple | List, Tuple | Demonstrate |





| 230 | ry based | | | | | skills using |
|-----|----------|-----------|-----------|-----------|-----------|-------------------|
| 7 | on | Dictionar | Dictionar | Dictionar | Dictionar | String, List, |
| | (BCA23 | y, Set, | y, Set, | y, Set, | y, Set, | Tuple, |
| | 03. | Modules, | Modules, | Modules, | Modules, | Dictionary, |
| | BCA230 | Vector, | Vector, | Vector, | Vector, | Set for Python |
| | 5) | List, | List, | List, | List, | Programming. |
| | , | Matrix, | Matrix, | Matrix, | Matrix, | CO3. Write |
| | | Data | Data | Data | Data | programs |
| | | Frame, | Frame, | Frame, | Frame, | using |
| | | Factor | Factor | Factor | Factor | Modules in |
| | | | | | | Python |
| | | | | | | Programming. |
| | | | | | | CO4. Get |
| | | | | | | familiar with |
| | | | | | | R-Software |
| | | | | | | and Learn |
| | | | | | | basics of R- |
| | | | | | | Programming |
| | | | | | | CO5. |
| | | | | | | Understand |
| | | | | | | the Basics in |
| | | | | | | R- |
| | | | | | | Programming |
| | | | | | | in terms of |
| | | | | | | control |
| | | | | | | statements, |
| | | | | | | String |
| | | | | | | Functions |
| | | | | | | PO3. Design |
| | | | | | | and |
| | | | | | | Development: |
| | | | | | | Design and |
| | | | | | | develop |
| | | | | | | efficient |
| | | | | | | solutions for |
| | | | | | | complex real- |
| | | | | | | world |
| | | | | | | computing |
| | | | | | | problems and |
| | | | | | | aesign system |
| 1 | | | | 1 | | components 🛛 🕅 |





| Г | | | | | | | |
|---|----|---------|----------|----------|----------|----------|----------------------------|
| | | | | | | | or processes that meet the |
| | | | | | | | specified |
| | | | | | | | needs with |
| | | | | | | | appropriate |
| | | | | | | | consideration |
| | | | | | | | for public |
| | | | | | | | health and |
| | | | | | | | safety and the |
| | | | | | | | cultural, |
| | | | | | | | societal, and |
| | | | | | | | environmental |
| | | | | | | | considerations |
| | | | | | | | |
| | | | | | | | PO4.Conduct |
| I | | | | | | | investigations |
| | | | | | | | of complex |
| | | | | | | | problems: |
| | | | | | | | Ability to |
| | | | | | | | research, |
| | | | | | | | analyze and |
| | | | | | | | Investigate |
| | | | | | | | complex |
| | | | | | | | computing |
| | | | | | | | problems |
| | | | | | | | through the |
| | | | | | | | design of |
| | | | | | | | experiments, |
| | | | | | | | analysis, |
| | | | | | | | and |
| | | | | | | | interpretation |
| | | | | | | | of data, and |
| I | | | | | | | synthesis of |
| I | | | | | | | the |
| | | | | | | | information to |
| I | | | | | | | arrive at valid |
| | | | | | | | conclusions. |
| | BC | Advance | JDBC. | JDBC. | JDBC. | JDBC. | CO1. Learn to |
| | Ā | d Java | JSP. | JSP. | JSP. | JSP. | access |
| I | | | Servlet, | Servlet, | Servlet, | Servlet, | database |
| | | | , | , | , | , | |



| 240 | Networki | Networki | Networki | Networki | using Java |
|-----|----------|----------|----------|----------|----------------|
| 1 | ng | ng | ng | ng | Data Base |
| | | | | | Connectivity |
| | | | | | in Java |
| | | | | | programs. |
| | | | | | 1 0 |
| | | | | | CO2. Develop |
| | | | | | multithreaded |
| | | | | | application |
| | | | | | with |
| | | | | | synchronizati |
| | | | | | on. |
| | | | | | |
| | | | | | CO3. Explore |
| | | | | | and |
| | | | | | understand |
| | | | | | Java Server |
| | | | | | Pages. |
| | | | | | 0 |
| | | | | | CO4. Develop |
| | | | | | dvnamic |
| | | | | | webpages |
| | | | | | using |
| | | | | | Servlets. |
| | | | | | PSO2. |
| | | | | | Problem |
| | | | | | Analysis: |
| | | | | | Identify. |
| | | | | | analyse and |
| | | | | | formulate |
| | | | | | complex real- |
| | | | | | life |
| | | | | | computing |
| | | | | | problems. |
| | | | | | Attain |
| | | | | | substantiated |
| | | | | | conclusions to |
| | | | | | solve the |
| | | | | | problems |
| | | | | | using |
| | | | | | fundamental |





| ſ | | | | | | | 1 |
|---|----|---------|-----------|-----------|-----------|-----------|----------------|
| | | | | | | | principles of |
| | | | | | | | computer |
| | | | | | | | science and |
| | | | | | | | application |
| | | | | | | | domains by |
| | | | | | | | using various |
| | | | | | | | tools and |
| | | | | | | | emerging |
| | | | | | | | technologies. |
| | | | | | | | PO3. Design |
| | | | | | | | and |
| | | | | | | | Development: |
| | | | | | | | Design and |
| | | | | | | | develop |
| | | | | | | | efficient |
| | | | | | | | solutions for |
| | | | | | | | complex real- |
| | | | | | | | world |
| | | | | | | | computing |
| | | | | | | | problems and |
| | | | | | | | design system |
| | | | | | | | components |
| | | | | | | | or processes |
| | | | | | | | that meet the |
| | | | | | | | specified |
| | | | | | | | needs with |
| | | | | | | | appropriate |
| | | | | | | | consideration |
| | | | | | | | for public |
| | | | | | | | health and |
| | | | | | | | safety and the |
| | | | | | | | cultural. |
| | | | | | | | societal. and |
| | | | | | | | environmental |
| | | | | | | | considerations |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | BC | Advance | XMI | XMI | XMI | XMI | COG |
| | A | d Web | Aiax with | Aiax with | Aiax with | Aiax with | Dynamically |



| | 240 | Technolo | PHP, Web | PHP, Web | PHP, Web | PHP, Web | access and |
|---|-----|----------|----------|----------|----------|----------|----------------|
| | 2 | gies | Services | Services | Services | Services | update PHP |
| | | - | | | | | applications |
| | | | | | | | using XML. |
| | | | | | | | |
| | | | | | | | CO7. |
| | | | | | | | Students will |
| | | | | | | | able to |
| | | | | | | | develop |
| | | | | | | | interface a |
| | | | | | | | PHP script |
| | | | | | | | with a |
| | | | | | | | MySQL |
| | | | | | | | database. |
| | | | | | | | PO2. Problem |
| | | | | | | | Analysis: |
| | | | | | | | Identify, |
| | | | | | | | analyse and |
| | | | | | | | formulate |
| | | | | | | | complex real- |
| | | | | | | | life |
| | | | | | | | computing |
| | | | | | | | problems. |
| | | | | | | | Attain |
| | | | | | | | substantiated |
| | | | | | | | conclusions to |
| | | | | | | | solve the |
| | | | | | | | problems |
| | | | | | | | using |
| | | | | | | | tundamental |
| | | | | | | | principles of |
| | | | | | | | computer |
| | | | | | | | science and |
| | | | | | | | application |
| | | | | | | | domains by |
| | | | | | | | using various |
| | | | | | | | tools and |
| | | | | | | | emerging |
| | | | | | | | technologies. |
| | | | | | | | PO3. Design |
| 1 | 1 | | | | | | and |





| | | | | | | Development: Design and develop efficient solutions for complex real- world computing problems and design system components or processes that meet the specified needs with appropriate consideration for public health and safety and the cultural, societal, and environmental considerations |
|---------------------|---|-------------------------------|-------------------------------|-------------------------------|-------------------------------|--|
| BC A 240 3 | Mathema tical Foundati on for Data Science | Vectors, Matrices, Sets | Vectors, Matrices, Sets | Vectors, Matrices, Sets | Vectors, Matrices, Sets | CO4. Apply the knowledge of matrices to solve the problem. CO5. Utilize applications of matrices to solve industrial problem. |





| | | | PO1. |
|--|--|--|------------------|
| | | | Knowledge: |
| | | | To understand |
| | | | and apply the |
| | | | fundamental |
| | | | principles, |
| | | | concepts, and |
| | | | methods in |
| | | | diverse areas |
| | | | of computer |
| | | | science, |
| | | | computer |
| | | | applications, |
| | | | management. |
| | | | mathematics, |
| | | | statistics, etc. |
| | | | PO2. Problem |
| | | | Analysis: |
| | | | Identify, |
| | | | analyse and |
| | | | formulate |
| | | | complex real- |
| | | | life |
| | | | computing |
| | | | problems. |
| | | | Attain |
| | | | substantiated |
| | | | conclusions to |
| | | | solve the |
| | | | problems |
| | | | using |
| | | | fundamental |
| | | | principles of |
| | | | computer |
| | | | science and |
| | | | application |
| | | | domains by |
| | | | using various |
| | | | tools and |
| | | | emerging |
| | | | technologies. |





| | 1 | 1 | | | | 1 |
|-----|----------|----------|----------|----------|----------|-----------------|
| BC | Softwar | Software | Software | Software | Software | CO2. Analyze |
| А | e | Testing, | Testing, | Testing, | Testing, | the design of |
| 240 | Testing | Junit | Junit | Junit | Junit | test cases for |
| 4 | and | (TestNG) | (TestNG) | (TestNG) | (TestNG) | different |
| | Quality | | · · · · | × , | × , | testing |
| | Assuranc | | | | | techniques. |
| | e | | | | | CO3 Create |
| | | | | | | test strategies |
| | | | | | | and plans |
| | | | | | | design test |
| | | | | | | |
| | | | | | | case, |
| | | | | | | prioritize and |
| | | | | | | CO4 Test the |
| | | | | | | CO4. Test the |
| | | | | | | software by |
| | | | | | | applying |
| | | | | | | testing |
| | | | | | | techniques to |
| | | | | | | deliver a |
| | | | | | | product free |
| | | | | | | from bugs. |
| | | | | | | PO4.Conduct |
| | | | | | | investigations |
| | | | | | | of complex |
| | | | | | | problems: |
| | | | | | | Ability to |
| | | | | | | research, |
| | | | | | | analyze and |
| | | | | | | Investigate |
| | | | | | | complex |
| | | | | | | computing |
| | | | | | | problems |
| | | | | | | through the |
| | | | | | | design of |
| | | | | | | experiments. |
| | | | | | | analysis. |
| | | | | | | and |
| | | | | | | interpretation |
| | | | | | | of data and |
| | | | | | | synthesis of |
| | | | | | | the |
| 1 | 1 | 1 | 1 | 1 | 1 | |





| | | | | | | information to arrive at valid conclusions. PO5. Modern Tool Usage: Create, identify and apply appropriate techniques, skills, and modern computing tools to computing activities. |
|---------------------|----------------|--|--|--|--|--|
| BC A 240 5 | Networki ng | Topologie s, Network Types, TCP/IP Model, Transmiss ion Media, IP Address and Routing | Topologie s, Network Types, TCP/IP Model, Transmiss ion Media, IP Address and Routing | Topologie s, Network Types, TCP/IP Model, Transmiss ion Media, IP Address and Routing | Topologie s, Network Types, TCP/IP Model, Transmiss ion Media, IP Address and Routing | CO4. Apply the knowledge of different network design and various logical models of networking to solve problems of communicatio n over different transmission medium. CO5. Get knowledge of various error detection and correction technique to avoid |





| | | | 1 | | | |
|---------------------|---|---|---|---|---|--|
| | | | | | | collision and error problem. CO6. Analyze various routing concepts with routing protocol to develop network related application for future need. PO8. Life- Long Learning: Recognize the need and have the ability to engage in independent continuous reflective learning in the context of technological |
| | | | | | | technological advancement. |
| BC A 240 6 | Comput er Laborat ory based on (BCA24 01 and BCA240 2) | JDBC, JSP. Servlet, Ajax, XML, WordPres s | JDBC, JSP. Servlet, Ajax, XML, WordPres s | JDBC, JSP. Servlet, Ajax, XML, WordPres s | JDBC, JSP. Servlet, Ajax, XML, WordPres s | CO3. Develop client server applications using SOCKET Programming CO5. Design interactive programs using AJAX |





| | | | & PHP, |
|--|--|--|--------------------------|
| | | | XML. |
| | | | CO6. Design |
| | | | interactive |
| | | | website using |
| | | | Word press |
| | | | PO3 Design |
| | | | and |
| | | | Development [.] |
| | | | Design and |
| | | | develon |
| | | | efficient |
| | | | solutions for |
| | | | complex real |
| | | | world |
| | | | acomputing |
| | | | computing |
| | | | design system |
| | | | design system |
| | | | components |
| | | | or processes |
| | | | that meet the |
| | | | specified |
| | | | needs with |
| | | | appropriate |
| | | | consideration |
| | | | for public |
| | | | health and |
| | | | safety and the |
| | | | cultural, |
| | | | societal, and |
| | | | environmental |
| | | | considerations |
| | | | |
| | | | PO4.Conduct |
| | | | investigations |
| | | | of complex |
| | | | problems: |
| | | | Ability to |
| | | | research, |
| | | | analyze and |





| | | | | | | Investigate complex computing problems through the design of experiments, analysis, and interpretation of data, and synthesis of the information to arrive at valid conclusions. |
|---------------------|---|--|--|--|--|---|
| BC A 240 7 | Comput er Laborat ory based on (BCA24 04 and BCA24 05) | TestNG Framewor k, Web elements, Locators, Packet Tracer | TestNG Framewor k, Web elements, Locators, Packet Tracer | TestNG Framewor k, Web elements, Locators, Packet Tracer | TestNG Framewor k, Web elements, Locators, Packet Tracer | CO1. Understandin g Selenium and TestNG tool to perform Automation testing CO2. Design Effective test cases that can uncover ethical defects in the applications. CO5.Understa nd and develop various applications on packet tracer. CO6. Understand |





| | | | network |
|--|--|--|----------------|
| | | | devices, IP, |
| | | | Commands & |
| | | | Switching |
| | | | techniques |
| | | | CO7 Learn |
| | | | routing |
| | | | concepts |
| | | | concepts |
| | | | |
| | | | protocols. |
| | | | PO3. Design |
| | | | and |
| | | | Development: |
| | | | Design and |
| | | | develop |
| | | | efficient |
| | | | solutions for |
| | | | complex real- |
| | | | world |
| | | | computing |
| | | | problems and |
| | | | design system |
| | | | components |
| | | | or processes |
| | | | that meet the |
| | | | specified |
| | | | needs with |
| | | | appropriate |
| | | | consideration |
| | | | for public |
| | | | health and |
| | | | sofety and the |
| | | | salety and the |
| | | | cultural, |
| | | | societai, and |
| | | | environmental |
| | | | considerations |
| | | | |
| | | | PO5. Modern |
| | | | Tool Usage: |
| | | | Create, |
| | | | identify and |





| | | | | | | apply appropriate |
|-----|---------|----------|----------|----------|----------|----------------------|
| | | | | | | techniques. |
| | | | | | | skills, and |
| | | | | | | modern |
| | | | | | | computing |
| | | | | | | tools to |
| | | | | | | computing |
| | | | | | | activities. |
| PR- | Project | Software | Software | Software | Software | CO3. |
| 22 | | Developm | Developm | Developm | Developm | Identify, plan, |
| | | ent | ent | ent | ent | analyze, |
| | | | | | | design and |
| | | | | | | implement |
| | | | | | | software |
| | | | | | | project |
| | | | | | | required in |
| | | | | | | society. |
| | | | | | | CO4. Take |
| | | | | | | communicate |
| | | | | | | work in a |
| | | | | | | team and |
| | | | | | | manage a |
| | | | | | | project within |
| | | | | | | a given time |
| | | | | | | span. |
| | | | | | | ČO5. |
| | | | | | | Demonstrate |
| | | | | | | the ability to |
| | | | | | | find and use |
| | | | | | | the technical |
| | | | | | | information |
| | | | | | | from multiple |
| | | | | | | sources. |
| | | | | | | CO6. Handle |
| | | | | | | power point |
| | | | | | | presentations |
| | | | | | | CO7 Empower |
| | | | | | | r themselves |
| | | | | | | |





| 10 | | | | |
|-----|--|--|--|-------------------------------------|
| | | | | to present project report and |
| | | | | communicate |
| | | | | effectively. |
| | | | | PO8. Life- |
| | | | | Long |
| | | | | Learning: |
| | | | | Recognize the |
| | | | | need and have |
| | | | | the ability to |
| | | | | engage in |
| | | | | independent |
| | | | | continuous |
| | | | | reflective |
| | | | | learning in the |
| | | | | context of |
| | | | | advancement |
| | | | | DOO Project |
| | | | | Monogoment: |
| | | | | Understand |
| | | | | and apply |
| | | | | computing |
| | | | | management |
| | | | | principles to |
| | | | | manage |
| | | | | projects. |
| | | | | 1 J |
| - 1 | | | | |





COMMERCE

| Progr amme | Course Code | Course Title | Topic in t to the dev | Pos, PSO's & Cos | | | |
|---------------|----------------|---|---|---|---|---------------------------------|---|
| | | | Local | National | Regional | Global | |
| B.Com | COMFA1 101 | Financial Accounti ng I | Accounti ng Principle s | conversi on of partnersh ip firm | Consign ment Accounti ng Process and books maintains | Accounti ng standards | CO1.Indepe ndent learning : Demonstrat e the ability to acquire knowledge and business skills, the capacity for self- directed activity and the ability to work independent |
| B.Com | COMED1 104B | Entrepren eurship Develop ment I | entrepren eurship Develop ment | Regional Imbalanc e | Regional Imbalanc e | Economi c Develop ment | PO2.This course will offer the fundamenta ls of starting and operating business. It will provide special opportunitie s for women entrepreneu rs. |





| B.Com | COMCP1 | Consume | Problem | Consume | Consume | Voluntor | PO3.This |
|-------|--------|-----------|-----------|-----------|----------|-----------|---------------|
| | 106A | r | of | r | r and | y | will help the |
| | | Protectio | Consume | Protectio | Consume | Consume | students to |
| | | n and | r | n Act | r | r | make them |
| | | Business | | | Moveme | Organiza | aware about |
| | | Ethics I | | | nt | tion | the concept |
| | | | | | | | consumeris |
| | | | | | | | m and rights |
| | | | | | | | of |
| | | | | | | | consumer |
| B.Com | COMMS1 | Marketin | Principle | Service | Service | Internati | PO4 Comm |
| Dicom | 106B | o And | s of | marketin | marketin | onal | unication |
| | 1002 | Salesman | marketin | σ | σ | Marketin | Skill : Able |
| | | shin I | σ | 8 | 5 | σ | to |
| | | simp 1 | salesman | | | Ø | communica |
| | | | ship | | | | te |
| | | | Simp | | | | effectively. |
| | | | | | | | analyse the |
| | | | | | | | concepts |
| | | | | | | | and |
| | | | | | | | participate |
| | | | | | | | in healthy |
| | | | | | | | arguments |
| | | | | | | | and portrav |
| | | | | | | | skill in |
| | | | | | | | communica |
| | | | | | | | tion and in |
| | | | | | | | writing. |
| | | | | | | | Possess |
| | | | | | | | skills |
| | | | | | | | related with |
| | | | | | | | banking and |
| | | | | | | | other |
| | | | | | | | business. |
| B.Com | COMFA1 | Financial | Accounti | GST | Higher | Accounti | PO3.Indepe |
| | 201 | Accounti | ng | Accounti | Purchase | ng | ndent |
| | | ng II | Records | ng | Accounti | standards | learning : |
| | | L C | Skills | Records | ng | | Demonstrat |
| | | | | Procedur | system | | e the ability |
| | | | | es | | | to acquire |



| NAAC-SSR | Cycle IV | 2019 - 2024 | | | | |
|---|---|--|--|--|--|--|
| E-mail : principal.tecollege@gmail.com | Religious Minority Institute | NAAC Reaccredited 'A+' Grade, CGPA 3.55 | | | | |
| Prof. Dr. Avinash S. Jagtap M.Sc. Ph.D. PRINCIPAL | Em | Dist. Pune. Maharashtra, India. powered Autonomous Status | | | | |
| महाविद्यालय, बारामती | of Arts, Science and Commerce, Baramati - 413102. | | | | | |
| अनेकांत एउन्युकेसन सीसायटीय जन्मजारामा राजराजेक | TULJARAM | CHATURCHAND COLLEGE | | | | |
| | Anekant Education Society's | | | | | |
| 1362 chan-mai | | ।। सिध्दिरनेकान्तात्।। | | | | |
| | | | | | | |

| | | | | | | | knowledge and business skills, the capacity for self directed activity and the ability to work independent ly |
|-------|----------------|---|----------------------------|--|--|---|---|
| B.Com | COMED1 204B | entrepren eurship Develop ment II | Women Entrepre neurs | Autobiog raphy of Entrepre neurs | Women Entrepre neurs | Women Entrepre neurs | PO1.The students can understand the traits and qualities of entrepreneu rs. It will provide special opportunitie s for women entrepreneu rs. |
| B.Com | COMCP1 206A | Consume r Protectio n and Business Ethics II | Business Ethics | Corporat e Social Responsi bility | Current Issues of Business Ethics | Corporat e Governa nce and Business Ethics | CO2.It would also enable the students about various laws related to consumer protection in India. |
| B.Com | COMMS1 206B | Marketin g And Salesman ship II | Rural Marketin g | Digital Online marketin g | Challeng es of Marketin g | Internati onal Marketin g | CO2.Indepe ndent learning : Demonstrat e the ability to acquire |



| NAAC-SSR | Cycle IV | 2019 - 2024 | | | | |
|---|---|--|--|--|--|--|
| E-mail : principal.tecollege@gmail.com | Religious Minority Institute | NAAC Reaccredited 'A+' Grade, CGPA 3.55 | | | | |
| Prof. Dr. Avinash S. Jagtap M.Sc. Ph.D. PRINCIPAL | Em | vist. Pune. Maharashtra, India. powered Autonomous Status | | | | |
| महाविद्यालय, बारामती | of Arts, Science and Commerce, Baramati - 413102. | | | | | |
| अनेकांत एनपुनेसन सोसावटीचे तत्वरुजाराम चत्तरचंद | TULJARAM C | CHATURCHAND COLLEGE | | | | |
| | An | ekant Education Society's | | | | |
| 1965 LEGEScymenter | | ।। सिध्दिरनेकान्तात्।। | | | | |
| | | | | | | |

| | | | | | | | knowledge and business skills, the capacity for self directed activity and the ability to work independent ly |
|-------|---------------|----------------------------------|--------------------------------------|---------------------------------|--------------------------------------|----------------|---|
| B.Com | COMBC2 301 | Business Commun ications I | Basic Commun ication Skills | Oral Presentat ion Skills | Barriers to Commun ications | Soft Skills | CO1.Comm unication Skill : Able to communica te effectively, analyse the concepts and participate in healthy arguments and portray skill in communica tion. Possess skills related with banking and other business. |





| B.Com | COMCA2 | Corporat | Compan | Holding | Valuatio | Accounti | CO2.The |
|-------|--------|----------|-----------|------------|----------------|------------------|--------------|
| | 302 | e | y Final | Compan | n of | ng | course will |
| | | Accounti | Account | v | Shares | Standard | help the |
| | | ng I | | 5 | | | students to |
| | | | | | | | get a |
| | | | | | | | thorough |
| | | | | | | | knowledge |
| | | | | | | | about |
| | | | | | | | about |
| | | | | | | | corporate |
| | | | | | | | accounting. |
| | | | | | | | It would |
| | | | | | | | also enable |
| | | | | | | | the students |
| | | | | | | | to know |
| | | | | | | | about |
| | | | | | | | application |
| | | | | | | | of |
| | | | | | | | accounting |
| | | | | | | | standards, |
| | | | | | | | concept of |
| | | | | | | | holding and |
| | | | | | | | subsidiary |
| | | | | | | | companies. |
| B.Com | COMBM2 | Business | | Recent | Performi | | CO2.This |
| | 304 | Manage | Bussines | trends in | ng | Understa | will provide |
| | | ment I | s | Manage | managem | nding | an |
| | | | Planning. | ment. | ent | Global | understandi |
| | | | Motivati | Motivati | Function | Business | ng about |
| | | | on | on | S. | manage | recent |
| | | | Leadersh | Leadersh | S, Motivati | ment | trends in |
| | | | in | in | on | challenge | business |
| | | | -F | -14 | Leadersh | s and | managemen |
| | | | | | in | practices | t also |
| | | | | | 4 | Motivati | Leadershin |
| | | | | | | on | quality |
| | | | | | | UII, Loodorch | quanty |
| | | | | | | in | |
| D.C. | | Flowerst | Commercia | Incomercia | Conital | ID Tronsferr | CO2 This |
| B.Com | COMCL2 | Elements | Compan | incorpor | Capital | 1 ransfer | CO2.1his |
| | 305 | OI | y Act | ation of a | | of Shares | Course help |
| | | company | | Compan | Company | | to getting |
| | | Law I | | V | | | the 🕺 |





| | | | | | | | knowledge of fundamenta ls of Company Law |
|-------|-----------------|---------------------------------------|--|--|--|--|---|
| B.Com | COMMM 2306A | Marketin g Manage ment I | Retail marketin g, Elements of Marketin g Manage ment, Marketin g Commun ication, Marketin g Environ ment and Marketin g Segment ation | Current Marketin g Environ ment in India, Elements of Marketin g Manage ment, Marketin g Commun ication, Marketin g Environ ment and Marketin g Segment ation | Current Marketin g Environ ment in India, Elements of Marketin g Manage ment, Marketin g Commun ication, Marketin g Environ ment and Marketin g Segment ation | Elements of Marketin g Manage ment, Marketin g Commun ication, Marketin g Environ ment and Marketin g Segment ation | CO3.Studen ts will be demonstrate the ability to acquire knowledge and business skills the capacity for self directed activity and the ability to work independent ly. |
| B.Com | COMCW A2306B | Cost and Works Accounti ng I | Elements of cost | material Control | Tender and cotations | Just in time Overhea ds | PO3.Indepe ndent learning : Demonstrat e the ability to acquire knowledge and business skills, the capacity for |





| | | | | | | | self directed activity and the ability to work independent ly. Knowledge and Critical Thinking : Acquire skills in organizing, analysing, evaluating and presenting information |
|-------|---------------|--------------------------------------|--|-------------------|--------------------------------|---|---|
| B.Com | COMBC2 401 | Business Commun ications II | Basic Commun ication Skills, Letter Writing | Report Writing | Business Correspo ndence | Internati onal Correspo ndence | PO1.Comm unication Skill : Able to communica te effectively, analyse the concepts and participate in healthy arguments and portray skill in writing. Possess skills related with banking and other business. |





| B.Com | COMCA2 402 | Corporat e Accounti ng II | Inventor y Accounti ng and Pay roll Accounti ng | Liquidati on of company | Amalga mation and Absorpti on | Accounti ng for construct ion | PO2.The students to get knowledge about corporate accounting procedure such as reconstructi on of companies, |
|---------|---------------|-------------------------------------|---|--|---|---|---|
| B.Com | COMBM2 | Business | Co- | Recent | Performi | | amalgamati on and absorption of companies. |
| D.COIII | 404 | Manage ment II | ordinatio n, Control | trends in Co- ordinatio n, Control | ng Co- ordinatio n, Control | Understa nding Global Business manage ment - Co- ordinatio n, Control, Recent Trends | t qualities associated with leadership such as accountabili ty, integrity, respect, self- reflection, |
| B.Com | COMCL2 405 | Elements of company Law II | Compan y Formatio n | Incorpor ation of a Compan y | Environ ment Issues. | Corporat e social Responsi bilities | CO2.Updat e the knowledge of provisions of the Companies Act of 2013 |





| B.Com | COMMM | Marketin | Green | Green | Green | Green | PO3.Studen |
|-------|--------|----------|-----------|-----------|-----------|-----------|--|
| | 2406A | g | Marketin | Marketin | Marketin | Marketin | ts will be |
| | | Manage | g, | g, | g, | g, | demonstrate |
| | | ment II | marketin | marketin | marketin | marketin | the ability to |
| | | | g | g | g | g | acquire |
| | | | planning, | planning, | planning, | planning, | knowledge |
| | | | Marketin | Marketin | Marketin | Marketin | and |
| | | | g | g | g | g | business |
| | | | Informati | Informati | Informati | Informati | skills the |
| | | | on | on | on | on | capacity for |
| | | | System | System | System | System | self directed |
| | | | and | and | and | and | activity and |
| | | | marketin | marketin | marketin | marketin | the ability to |
| | | | g | g | g | g | work |
| | | | research | research, | research, | research, | independent |
| | | | | e- | e- | e- | ly |
| | | | | marketin | marketin | marketin | |
| | | | | g | g | g | |
| B.Com | COMCW | Cost and | Materaial | Remuner | Inventory | Just in | PO3.Able |
| | A2406B | Works | Accounti | ation and | Control | time | to analysis |
| | | Accounti | ng | Incentive | | Overhea | issues |
| | | ng II | | S | | ds | logically, |
| | | | | | | | consider |
| | | | | | | | |
| | | | | | | | different |
| | | | | | | | different options and |
| | | | | | | | different options and viewpoints, |
| | | | | | | | different options and viewpoints, make |
| | | | | | | | different options and viewpoints, make decisions |
| | | | | | | | different options and viewpoints, make decisions and act with |
| | | | | | | | different options and viewpoints, make decisions and act with flexibility, |
| | | | | | | | different options and viewpoints, make decisions and act with flexibility, adaptability |
| | | | | | | | different options and viewpoints, make decisions and act with flexibility, adaptability and |
| | | | | | | | different options and viewpoints, make decisions and act with flexibility, adaptability and creativity. |





| DC | 201 | D · | T 11 | D | | 01.1.1 | |
|-------|-----|------------|-------------|-----------|-----------|----------|--------------|
| B.Com | 301 | Business | Indian | Partnersh | Agencies | Global | 3.Knowledg |
| | | Regulator | Contract | ip firm & | , Sale of | Issues, | e and |
| | | у | Act, | LLP | goods | Patents | Critical |
| | | Framewo | Geograp | Procedur | Act, | Procedur | Thinking : |
| | | rk | hical | es, | Trademar | es | Acquire |
| | | | Indicatio | Conssum | k, copy | | skills in |
| | | | ns | ers | Right | | organizing. |
| | | | | Complai | Issues | | analysing. |
| | | | | nts | | | evaluating |
| | | | | Issues | | | and |
| | | | | 100000 | | | presenting |
| | | | | | | | information |
| | | | | | | | Able to |
| | | | | | | | analysis |
| | | | | | | | |
| | | | | | | | logically |
| | | | | | | | logically, |
| | | | | | | | different |
| | | | | | | | antions and |
| | | | | | | | options and |
| | | | | | | | viewpoints, |
| | | | | | | | таке |
| | | | | | | | decisions |
| | | | | | | | and act with |
| | | | | | | | flexibility, |
| | | | | | | | adaptability |
| | | | | | | | and |
| | | | | | | | creativity. |
| B.Com | 302 | Advance | Final | GST, | Ratio | Forensic | PO3.This |
| | | d | Account | Single | Analysis, | Accounti | help |
| | | Accounti | of | Entry | Ecommer | ng, | students to |
| | | ng | Cooperat | System | ce entity | Accounti | getting the |
| | | | ive | | | ng | knowledge |
| | | | Society, | | | Standard | of |
| | | | Final | | | S | fundamenta |
| | | | Account | | | | ls of |
| | | | of | | | | accounting |
| | | | Banking | | | | and update |
| | | | Compani | | | | the |
| | | | es | | | | knowledge |
| | | | | | | | of |
| | | | | | | | provisions |





| B.Com | 304 | Auditing | Audit | verificati | Audit | Auditing | Maharashtr a Cooperative Society Act of 1960, Students will be demonstrate the ability to acquire knowledge to analysis issues logically, consider different options and viewpoints, make decisions PO2.Studen |
|-------|-----|---------------|---|---|---|---|--|
| | | & Taxation | Program me Residenti al status and computat ion of Income Tax | on and Valuatio n of Assets, Residenti al status and computat ion of Income Tax | Report, Residenti al status and computat ion of Income Tax | and Assuranc e Standard, Residenti al status and computat ion of Income Tax | ts will be demonstrate the ability to acquire knowledge and business skills, the capacity for self directed activity and the ability to work independent ly. It will help students to get knowledge |



| NAAC-SSR | Cycle IV | 2019 - 2024 | | | |
|---|---|--|--|--|--|
| E-mail : principal.tccollege@gmail.com | Religious Minority Institute | NAAC Reaccredited 'A+' Grade, CGPA 3.55 | | | |
| Prof. Dr. Avinash S. Jagtap M.Sc. Ph.D. PRINCIPAL | Emp | vist. Pune. Maharashtra, India. powered Autonomous Status | | | |
| तुळजारामं चतुरचद महाविद्यालय, बारामती | of Arts, Science and Commerce, Baramati - 413102. | | | | |
| अनेमधात पञ्चयेत्वयन सोसाम्प्रदीचे | TULJARAM CHATURCHAND COLLEGE | | | | |
| | An | ekant Education Society's | | | |
| 124622 C 12402 | | ।। सिध्दिरनेकान्तात्।। | | | |
| | | | | | |

| | | | | | | | about Income Tax Act and also get away regarding provision of residential status and incident of tax |
|-------|-----|-------------------------------------|---|---|---|--|---|
| B.Com | 305 | Marketin g Manage ment II | Rural Marketin g Issues, Agree Products | Social Responsi bilities | Marketin g Issues, Industrial Marketin g Issues | Global Marketin g Issues | CO2.Indepe ndent learning : Demonstrat e the ability to acquire knowledge and business skills, the capacity for self directed activity and the ability to work independent ly |
| B.Com | 306 | Marketin g Manage ment III | Advertis ement, Marketin g organizat ion | Tradema rk, Marketin g Strategie s | Brand Manage ment, Marketin g Regulatio n | E advertise ment, Globaliz ation | CO3.It would enable the students to acquaint the recent trends in the field of marketing. This will help the students to get in depth knowledge |





| | | | | | | | of marketing and salesmanshi p and its application in today's world. |
|-----------|---------------|---|---|--|--|--|--|
| B.Com | 305 | Cost and Works Accounti ng II | Accounti ng of Overhea d, Contract costing | Absorpti on, Process Costing | Activity base Costing ,Service Costing | Job costing, Lifecycle Costing | CO1.Acquir e skills in organizing, analysing, evaluating and presenting information |
| B.Com | 306 | Cost and Works Accounti ng III | Marginal Costing, Standard Costing | Budgetar y Costing, Noninteg rated Accounti ng | Uniform Costing, Cost Accounti ng Record Rules | MIS in Costing, Cost Audit | CO2.It would enable the students to acquaint the recent trends in the field of costing. |
| M. Com | COMMA4 101 | Manage ment Accounti ng | Applicati on of Manage ment Accounti ng | Ratio Analysis, Working Capital | Ratio Analysis, Working Capital | Ratio Analysis, Working Capital | CO2.This will help the students to get in-depth knowledge about Manageme nt Accounting and its importance. |



| Takia chau-may | | ।। सिध्दिरनेकान्तात्।। | | | | |
|---|--|---|--|--|--|--|
| | An | ekant Education Society's | | | | |
| अनेकांत एनव्रवेमन संसाधदीय तळजाराम चतुरचंद | TULJARAM CHATURCHAND COLLEGE | | | | | |
| महाविद्यालय, बारामती | of Arts, Science and Commerce, Baramati - 413102. Dist. Pune. Maharashtra, India. | | | | | |
| Prof. Dr. Avinash S. Jagtap | | | | | | |
| M.Sc. Ph.D. PRINCIPAL | Em | powered Autonomous Status | | | | |
| E-mail : principal.tecollege@gmail.com | Religious Minority Institute | NAAC Reaccredited 'A+' Grade, CGPA 3.55 | | | | |
| NAAC-SSR | Cycle IV | 2019 - 2024 | | | | |

| M. Com | COMSM4 102 | Strategic Manage ment | Strategic Planning | Marketin g Strategie s | Develop ment of Strategie s | Impleme ntation of Strategie s at Global level | CO3.The course will help the students to get a thorough knowledge about strategic managemen t. |
|-----------|---------------|-----------------------------|--|--|--|--|---|
| M. Com | COMAA4 103 | Advance Accounti ng | Accounti ng Principle s | Accounti ng Standard s | Accounti ng Standard s | IFRS | CO2.The course will help the students to get deep knowledge about basic accounting concepts which are universally accepted. He also aware about the accounting standards used in India. |
| M. Com | COMIA41 04 | Income Tax | Residenti al status and computat ion of Income Tax | Residenti al status and computat ion of Income Tax | Residenti al status and computat ion of Income Tax | Residenti al status and computat ion of Income Tax | PO2.It will help students to get knowledge about Income Tax Act and also get away regarding provision of |





| | | | | | | | residential status and incident of tax |
|-----------|----------------|---|--|--|---|---------------------------------------|--|
| M. Com | COMFAC 4201 | Financial Analysis and Control | Cost of Capital, Marginal Costing | Budget, Budgetar y Control | Budget, Investme nt Decision | Budget, Investme nt Decision | PO2.This will help the students to enable students to acquire sound knowledge of Concepts, methods and techniques of managemen t accounting |
| M. Com | COMIE42 02 | Industrial Economi cs | Industrial Location issues | Industrial Efficienc y and Producti vity | Regional Industrial Imbalanc e | Foreign Capital | CO2.The course will be able to apply economic theories and methodolog ies in Industrial Location issues in various determinant s of the size and structure of industries |





| M. | COMSAA | Specializ | Accounti | Accounti | IFRS | IFRS | CO3.The |
|-------|--------|-----------|----------|----------|------|------|---------------|
| Com | 4203 | ed Areas | ng | ng | | | course will |
| | | in | Standard | Standard | | | help the |
| | | Accounti | s | S | | | students to |
| | | ng | | | | | get |
| | | | | | | | knowledge |
| | | | | | | | about |
| | | | | | | | Internationa |
| | | | | | | | 1 Financial |
| | | | | | | | Reporting |
| | | | | | | | Standards. |
| | | | | | | | It would be |
| | | | | | | | aware about |
| | | | | | | | the |
| | | | | | | | accounting |
| | | | | | | | treatments |
| | | | | | | | for |
| | | | | | | | corporate |
| | | | | | | | restructurin |
| | | | | | | | g. |
| M. | COMBTA | Business | Assessm | GST | GST | GST | CO2.It |
| Com | P4204 | Tax | ent and | | | | would |
| | | Assessme | Planning | | | | enable the |
| | | nt and | | | | | students to |
| | | Planning | | | | | acquaint the |
| | | | | | | | recent |
| | | | | | | | trends in the |
| | | | | | | | field of |
| | | | | | | | Business |
| | | | | | | | Tax |
| | | | | | | | Assessment |
| | | | | | | | and |
| м | | | | | | | Planning. |
| IVI. | | | | | | | |
| COIII | | | 1 | | 1 | 1 | |



| | Anekant Education Society's | | | | | |
|--|---|---|--|--|--|--|
| अनेकाल प्रत्युकेसन सीसायटीय जन्द्रजाराम चतर्रात | TULJARAM CHATURCHAND COLLEGE | | | | | |
| महाविद्यालय, बारामती | of Arts, Science and Commerce, Baramati - 413102. | | | | | |
| Prof. Dr. Avinash S. Jagtap | Dist. Pune. Maharashtra, India. | | | | | |
| M.Sc. Ph.D. PRINCIPAL | Empowered Autonomous Status | | | | | |
| E-mail : principal.tccollege@gmail.com | Religious Minority Institute | NAAC Reaccredited 'A+' Grade, CGPA 3.55 | | | | |
| NAAC-SSR | Cycle IV | 2019 - 2024 | | | | |

| М. | COMBF5 | Business | Sources | Financial | Working | Equity | CO2.Studen |
|-----|----------------|---------------------|-----------|-----------|----------|-----------|---------------|
| Com | 301 | Finance | of | Planning | Capital | and Debt | ts will |
| | | | Finance | | Manage | | understand |
| | | | | | ment | | the |
| | | | | | | | characteristi |
| | | | | | | | cs of |
| | | | | | | | different |
| | | | | | | | financial |
| | | | | | | | assets such |
| | | | | | | | as money |
| | | | | | | | market |
| | | | | | | | instruments, |
| | | | | | | | bonds, and |
| | | | | | | | stocks and |
| | | | | | | | how to buy |
| | | | | | | | and sell |
| | | | | | | | these assets |
| | | | | | | | in Capital |
| м | COMDM | D 1- | Desservel | Desservel | D 1- | Decession | Markets. |
| M. | COMRM D5202 | Kesearch | Research | Research | Research | Research | CO3. The |
| Com | D 3302 | Methodol ogy for | metholo | metholo | metholo | metholo | offers to the |
| | | Business | ду | ду | ду | ду | under |
| | | Dusiness | | | | | graduate |
| | | | | | | | students to |
| | | | | | | | learn about |
| | | | | | | | the various |
| | | | | | | | applications |
| | | | | | | | of research |
| | | | | | | | methodolog |
| | | | | | | | y, role of |
| | | | | | | | research |
| | | | | | | | methodolog |
| | | | | | | | y in the |
| | | | | | | | business. |





| M. | COMAA5 | Advance | Auditing | Audit of | Corporat | CIS | PO3.This |
|-----|--------|-----------|------------|------------|------------|------------|--------------|
| Com | 303 | d | | Limited | e | Envirnm | course will |
| | | Auditing | | Compani | Governa | ent | enable |
| | | | | es | nce | | students |
| | | | | | | | about audit |
| | | | | | | | process and |
| | | | | | | | procedure |
| | | | | | | | to be |
| | | | | | | | conducted |
| | | | | | | | in corporate |
| | | | | | | | sector. |
| | | | | | | | Course will |
| | | | | | | | also make |
| | | | | | | | them able to |
| | | | | | | | find out the |
| | | | | | | | frauds and |
| | | | | | | | errors |
| | | | | | | | which may |
| | | | | | | | occur in |
| | | | | | | | various |
| | | | | | | | types of |
| | | | | | | | companies. |
| М. | COMAA5 | Specializ | Audit of | Audit of | Audit of | Audit of | PO2.Studen |
| Com | 304 | ed Areas | Bank, | Bank, | Bank, | Bank, | ts will be |
| | | in | Audit of | Audit of | Audit of | Audit of | acquiring |
| | | Auditing | specializ | specializ | specializ | specializ | skills in |
| | | | ed units, | ed units, | ed units, | ed units, | organizing |
| | | | Audit of | Audit of | Audit of | Audit of | analysing |
| | | | cooperati | cooperati | cooperati | cooperati | evaluating |
| | | | ve | ve | ve | ve | and |
| | | | societies, | societies, | societies, | societies, | presenting |
| | | | Governm | Governm | Governm | Governm | information |
| | | | ent | ent | ent | ent | skill |
| | | | system of | system | system of | system | |
| | | | audit | of audit | audit | of audit | |





| M. Com | COMEMF S5401 | Capital Market and Financial services | Capital Market, Stock Market, Financial Services, Regulato ry Framewo rk for Financial Services | Capital Market, Stock Market, Financial services, Regulato ry Framewo rk for Financial Services | Capital Market, Stock Market, Financial services, Regulato ry Framewo rk for Financial Services | Capital Market, Stock Market, Financial services, Regulato ry Framewo rk for Financial Services | ts will be knowledgea ble of domestic and internationa l economy and organizatio nal environmen t knowledge of ethics and ethical standard |
|-----------|------------------|--|--|--|--|--|--|
| M. Com | 402 | Industrial Economi c Envorme nt | ization | Economi c Envirnm ent | Pollution | Stand up and Startup | PO2. This course will understand the basic concepts of Industrial Finance. It will develop awareness regarding various industrial and environmen tal issues in India. |
| M. Com | COMRAA TA5403 | Recent Advances In Accounti ng Taxation and Audit | Recent Trends in Accounti ng, Frauds and Errors | GST and Carben Credit | Accounti ng for Governm ent and Non- governm ent organizat ion | Accounti ng and Audit Procedur e for Corporat e Affairs | PO2.This course will enable students about recent trends in accounting, auditing and taxation |



| ر معنی معنی معنی معنی معنی معنی معنی معنی | An TULJARAM C of Arts, Science D Em | ।। सिध्दिरनेकान्तात्।। nekant Education Society's CHATURCHAND COLLEGE and Commerce, Baramati - 413102. Dist. Pune. Maharashtra, India. powered Autonomous Status |
|---|---|---|
| E-mail : principal.tccollege@gmail.com | Religious Minority Institute | NAAC Reaccredited 'A+' Grade, CGPA 3.55 |
| NAAC-SSR | Cycle IV | 2019 - 2024 |

| | | | | | | | field. |
|-----|--------|-----------|-----------|-----------|-----------|-----------|--------------|
| | | | | | | | Course will |
| | | | | | | | also make |
| | | | | | | | them able to |
| | | | | | | | find out the |
| | | | | | | | frauds and |
| | | | | | | | errors |
| | | | | | | | which may |
| | | | | | | | occur in |
| | | | | | | | various |
| | | | | | | | sectors. |
| M. | COMPW5 | Project | Survey | Analytic | Societal | Analytic | PO1.This |
| Com | 404 | Work | - | al | use | al | course will |
| | | | | reporting | | reporting | enhance |
| | | | | | | | research, |
| | | | | | | | analytical |
| | | | | | | | and |
| | | | | | | | research |
| | | | | | | | reporting |
| | | | | | | | skills |
| | | | | | | | among the |
| | | | | | | | students |
| | | | | | | | |
| М. | COMCMF | Capital | Capital | Capital | Capital | Capital | CO2.Studen |
| Com | S5401 | Market | Market, | Market, | Market, | Market, | ts will be |
| | | and | Stock | Stock | Stock | Stock | knowledgea |
| | | Financial | Market, | Market, | Market, | Market, | ble of |
| | | services | Financial | Financial | Financial | Financial | domestic |
| | | | services, | services, | services, | services, | and |
| | | | Regulato | Regulato | Regulato | Regulato | internationa |
| | | | ry | ry | ry | ry | 1 economy |
| | | | Framewo | Framewo | Framewo | Framewo | and |
| | | | rk for | rk for | rk for | rk for | organizatio |
| | | | Financial | Financial | Financial | Financial | nal |
| | | | Services | Services | Services | Services | environmen |
| | | | | | | | t knowledge |
| | | | | | | | of ethics |
| | | | | | | | and ethical |
| | | | | | | | standard |


| Sector Se | An | ।। सिध्दिरनेकान्तात्।। sekant Education Society's | | | | |
|--|---|--|--|--|--|--|
| adative confidence adatemently | TULJARAM CHATURCHAND COLLEGE | | | | | |
| तुळजाराम चतुरचद महाविद्यालय, बारामती | of Arts, Science and Commerce, Baramati - 413102. | | | | | |
| Prof. Dr. Avinash S. Jagtap | D | vist. Pune. Maharashtra, India. | | | | |
| PRINCIPAL | Em | powered Autonomous Status | | | | |
| E-mail : principal.tccollege@gmail.com | Religious Minority Institute | NAAC Reaccredited 'A+' Grade, CGPA 3.55 | | | | |
| NAAC-SSR | Cycle IV | 2019 - 2024 | | | | |

| M. Com | COMIEE5 402 | Industrial Economi c Envorme nt | Industrial ization | Economi c Envirnm ent | Industrial Pollution | Stand up and Startup | CO2.This course will understand the basic concepts of Industrial Finance. It will develop awareness regarding various industrial and environmen tal issues in India. |
|-----------|------------------|--|---|--------------------------------|--|---|---|
| M. Com | COMRAA TA5403 | Recent Advances In Accounti ng Taxation and Audit | Recent Trends in Accounti ng, Frauds and Errors | GST and Carben Credit | Accounti ng for Governm ent and Non- governm ent organizat ion | Accounti ng and Audit Procedur e for Corporat e Affairs | PO3.This course will enable students about recent trends in accounting, auditing and taxation field. Course will also make them able to find out the frauds and errors which may occur in various sectors. |
| M. Com | COMPW5 404 | Project Work | Survey | Analytic al reporting | Societal use | Analytic al reporting | CO3.This course will enhance research, analytical |





| | | | | | | | and research reporting skills among the students |
|-----|---------------|---|-------------------------|-----|----------------------------|-----------------------|---|
| DTL | PGDTL- 101 | General Law Affecting Taxation | Legal Provision s | HUF | Indian constituti on | Internati onal Law | CO3.This course will help students to acquire the knowledge about the constitution of India and knowledge of other related general laws. Students will be acquainted by the sources of laws, basic idea of Constitutio n of India and Hindu Succession Act 1956. |



| Empowered Autonomous Status | | | | | |
|---|--|--|--|--|--|
| Empowered Autonomous Status | | | | | |
| LIST Pline Manarashira India | | | | | |
| Dist Dune Makenaktes India | | | | | |
| of Arts, Science and Commerce, Baramati - 413102. | | | | | |
| ARAM CHATURCHAND COLLEGE | | | | | |
| Anekant Education Society's | | | | | |
| ।। सिध्दिरनेकान्तात्।। | | | | | |
| | | | | | |

| DTL | PGDTL- | Income | Residenti | Residenti | Residenti | Residenti | CO1.The |
|-----|--------|-----------|------------|-----------|-----------|-----------|--------------|
| | 102 | Tax | al status | al status | al status | al status | course will |
| | | | and | and | and | and | help the |
| | | | computat | computat | computat | computat | students to |
| | | | ion of | ion of | ion of | ion of | get |
| | | | Income | Income | Income | Income | thorough |
| | | | Tax | Tax | Tax | Tax | knowledge |
| | | | | | | | about |
| | | | | | | | Income Tax |
| | | | | | | | Act. It |
| | | | | | | | would also |
| | | | | | | | enable the |
| | | | | | | | students to |
| | | | | | | | know about |
| | | | | | | | computatio |
| | | | | | | | n of Income |
| | | | | | | | from |
| | | | | | | | Salary, |
| | | | | | | | House |
| | | | | | | | property, |
| | | | | | | | Business |
| | | | | | | | Income, |
| | | | | | | | capital gain |
| | | | | | | | etc. and Tax |
| | | | | | | | liability. |
| DTL | PGDTL- | Integrate | GST | Types of | GST | Input | 3.Students |
| | 103 | d Goods | Awarene | GST | Return | Tax | can also |
| | | and | ss and | | filing | credit | acquire |
| | | Services | registrati | | | | practical |
| | | Tax | on | | | | skills to |
| | | | | | | | work as tax |
| | | | | | | | consultant, |
| | | | | | | | audit |
| | | | | | | | assistant |
| | | | | | | | and other |
| | | | | | | | tinancial |
| | | | | | | | supporting |
| | | | | | | | services. |
| | | | | | | | Students |
| | | | | | | | will |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | complete a |



| ब्रह्मात एनव्रहेन्ड संसाधतीय तुळजाराम चतुरचंद महाविद्यालय, बारामती Prof. Dr. Avinash S. Jagtap | Ar TULJARAM C of Arts, Science | Thekant Education Society's CHATURCHAND COLLEGE and Commerce, Baramati - 413102. Dist. Pune. Maharashtra, India. |
|---|--------------------------------------|---|
| M.Sc. Ph.D. PRINCIPAL | Em | powered Autonomous Status |
| E-mail : principal.tccollege@gmail.com | Religious Minority Institute | NAAC Reaccredited 'A+' Grade, CGPA 3.55 |
| NAAC-SSR | Cycle IV | 2019 - 2024 |

_

| | | | | | | | Project/ Written Assignment that integrates career orientation and or professional developmen t skills. |
|-----|---------------|---|---------------------------------|----------------------|---|--|---|
| DTL | PGDTL- 104 | Custom Act | Registrat | Process of appeal | Calculati on of custom duty | Identifica tion of legal and illegal goods | CO3.Studen ts would acquire knowledge about the legal framework and the ways and means to deal with the legal aspect of different situations under Custom Act. |
| DTL | PGDTL- 105 | Business Accounti ng Practices | Principle s and practices | Subsidiar y books | Bank reconcili ation statement | Preparati on of Financial statement s | CO1.The course structure of this paper would equip the students to get in- depth knowledge of financial accounting along with |



| NAAC-SSR | Cycle IV | 2019 - 2024 | | | | |
|---|--|--|--|--|--|--|
| E-mail : principal.tecollege@gmail.com | Religious Minority Institute | NAAC Reaccredited 'A+' Grade, CGPA 3.55 | | | | |
| Prof. Dr. Avinash S. Jagtap M.Sc. Ph.D. PRINCIPAL | D Em | vist. Pune. Maharashtra, India. powered Autonomous Status | | | | |
| अभाग पानुसेम्म भोगावतीय सहाविद्यालय, बारामती | Anekant Education Society's TULJARAM CHATURCHAND COLLEGE of Arts, Science and Commerce, Baramati - 413102. | | | | | |
| Col Printere | | 00) | | | | |

| | | | its practical |
|--|--|--|---------------|
| | | | application |
| | | | thereby |
| | | | giving an |
| | | | opportunity |
| | | | to gain easy |
| | | | access to |
| | | | this |
| | | | competitive |
| | | | business |
| | | | world. |





BOTANY

| Progra | Cou | Course | Topic in t | POs, PSO's | | | |
|----------|------|-----------|-------------|--------------|--------------|-------------|----------------|
| mme | rse | Title | 1 | the developr | nental needs | 5 | & COs |
| | Cod | | Local | National | Regional | Global | |
| | e | | | | | | |
| S. Y. | BOT | Taxonom | Knowledg | Knowledg | Knowledg | Knowledg | PO1: |
| B.Sc. | | | e of | e of | e of | e of | Disciplinary |
| Sem. III | 2301 | y of | identificat | identificat | identificat | identificat | Knowledge |
| | | - | ion of | ion of | ion of | ion of | _ |
| | | Angiospe | plants and | plants and | plants and | plants and | CO1. |
| | | | their | their | their | their | Describe the |
| | | rms | nomenclat | nomenclat | nomenclat | nomenclat | morphology |
| | | | ure. | ure. | ure. | ure. | and |
| | | | | | | | reproductive |
| | | | | | | | structure of |
| | | | | | | | Phanerogams. |
| | BOT | Plant | Physiolog | Physiolog | Physiolog | Physiolog | PO 4: |
| | | | ical | ical | ical | ical | Research- |
| | 2302 | Physiolog | processes | processes | processes | processes | related skills |
| | | | occurring | occurring | occurring | occurring | and |
| | | У | in plants. | in plants. | in plants. | in plants. | Scientif |
| | | | | | | | ic temper |
| | | | | | | | CO5. Get |
| | | | | | | | knowledge of |
| | | | | | | | plant |
| | | | | | | | metabol |
| | | | | | | | ism. |
| | BOT | Practical | Physiolog | Physiolog | Physiolog | Physiolog | PO 4: |
| | | | ical | ical | ical | ical | Research- |
| | 2303 | based on | processes | processes | processes | processes | related skills |
| | | | qualitativ | qualitativ | qualitativ | qualitativ | and |
| | | BOT | ely and | ely and | ely and | ely and | Scientif |
| | | | quantitati | quantitati | quantitati | quantitati | ic temper. |
| | | 2301 and | vely. | vely. | vely. | vely. | |
| | | | | | | | CO2. Train in |
| | | | | | | | cell biology |
| | | | | | | | techniq (|
| | | | | | | | ues. |





| | | BOT | | | | | |
|----------------|------|-----------|-------------------|--------------------|-------------------|-------------------|-------------------------------|
| | | 2302 | | | | | |
| S. Y. B.Sc. | BOT | Anatomy | Developm ental | Developm ental | Developm ental | Developm ental | PO2: Critical Thinking and |
| Sem. IV | 2401 | and | aspects of male | aspects of male | aspects of male | aspects of male | Proble m Solving. |
| | | Embryolo | gamete, | gamete, | gamete, | gamete, | CO5 |
| | | gy | gamete, | gamete, | gamete, | gamete, | Students are |
| | | | n and | n and | n and | n and | reasons |
| | | | embryo | embryo developm | embryo | embryo | IOF |
| | | | ent | ent | ent | ent | seconda |
| | | | ent. | ent. | ent. | ent. | ry growth in |
| | | | | | | | plants. |
| | BOT | Plant | Plant | Plant | Plant | Plant | PO2: Critical |
| | | | relation | relation | relation | relation | Thinking and |
| | 2402 | Ecology | with the | with the | with the | with the | Proble |
| | | | environm | environm | environm | environm | m Solving |
| | | | ent and | ent and | ent and | ent and | CO1. The |
| | | | impact | impact | impact | impact | student can |
| | | | assessmen | assessmen | assessmen | assessmen | analyse and |
| | | | t. | t. | t. | t. | interpre |
| | | | | | | | t the plant |
| | | | | | | | relation |
| | | | | | | | with the |
| | | | | | | | environment and impact |
| | | | | | | | of human |
| | | | | | | | interven |
| | | | | | | | tions on |
| | | | | | | | ecosystem. |
| | BOT | Practical | Detail | Detail | Detail | Detail | PO 4: |
| | | | developm | developm | developm | developm | Research- |
| | 2403 | based on | ental | ental | ental | ental | related skills |
| | | | changes | changes | changes | changes | and |
| | | BOT | of | of | of | of | Scientif (|
| | | | embryolo | embryolo | embryolo | embryolo | ic temper |





| | | 0401 1 | • 1 | • 1 | • 1 | • 1 | |
|----------|------|-----------|------------|------------|------------|------------|----------------------|
| | | 2401 and | gical | gical | gical | gıcal | GO 4 |
| | | | processes. | processes. | processes. | processes. | CO4. |
| | | BOT | | | | | Students are |
| | | | | | | | expertise in |
| | | 2402 | | | | | sectioni |
| | | | | | | | ng and |
| | | | | | | | staining |
| | | | | | | | techniq |
| | | | | | | | ue. |
| M.Sc. II | BOT | Angiospe | Knowledg | Knowledg | Knowledg | Knowledg | PO1: |
| Sem. III | 5201 | rms and | e of | e of | e of | e of | Disciplinary |
| | 5301 | Evolution | morpholo | morpholo | morpholo | morpholo | Knowledge. |
| | | | gical and | gical and | gical and | gical and | U |
| | | | taxonomi | taxonomi | taxonomi | taxonomi | CO6. |
| | | | cal | cal | cal | cal | Describe and |
| | | | awareness | awareness | awareness | awareness | identify the |
| | | | of local | of local | of local | of local | floweri |
| | | | flora | flora | flora | flora | ng plants |
| | BOT | Develop | Knowledg | Knowledg | Knowledg | Knowledg | PO1. |
| | DOI | mental | e of | e of | e of | e of | Disciplinary |
| | 5302 | Botony | different | different | different | different | Knowlodgo |
| | | Botally | ambruolo | ambruolo | ambruolo | ambruolo | Kilowieuge. |
| | | | giaal | cinol yolo | giaal | giaal | COL |
| | | | gicai | gicai | gical | gical | COI. Deseribe the |
| | | | technique | technique | technique | technique | Describe the |
| | | | s. | s. | s. | s. | morphology |
| | | | | | | | and |
| | | | | | | | reproductive |
| | | | | | | | structure |
| | | | | | | | of |
| | | | | | | | Phanerogams. |
| | BOT | Computat | Use of | Use of | Use of | Use of | PO1: |
| | 5303 | ional | computer | computer | computer | computer | Disciplinary |
| | 5505 | Botany | for | for | for | for | Knowledge. |
| | | | biological | biological | biological | biological | |
| | | | data | data | data | data | CO3. |
| | | | analysis. | analysis. | analysis. | analysis. | Students will |
| | | | | | | | apply their |
| | | | | | | | knowledge in |
| | | | | | | | various |





| | | | | | | branches of biology. |
|------------------|--|--|--|--|--|--|
| BOT 5304 1 | Advances in Plant Physiolog y | Instrumen tation useful in physiolog ical technique s. | Instrumen tation useful in physiolog ical technique s. | Instrumen tation useful in physiolog ical technique s. | Instrumen tation useful in physiolog ical technique s. | PO 4: Research- related skills and Scientific temper. CO7. Students get knowledge of |
| BOT 5304 2 | Advances in Mycolog y and Plant Patholog y | Classifica tion and taxonomy of fungi. | Classifica tion and taxonomy of fungi. | Classifica tion and taxonomy of fungi. | Classifica tion and taxonomy of fungi. | biomolecules. PO 8: Environment and Sustainability CO6. Aware about plant conservation in society. |
| BOT 5305 | Practical' s Based on BOT 5301,530 2 and 5303 | Innovativ e Ex-situ conservati on technique s. | Innovativ e Ex-situ conservati on technique s. | Innovativ e Ex-situ conservati on technique s. | Innovativ e Ex-situ conservati on technique s. | PO1: Disciplinary Knowledge. CO1. Knowledge of bryophytes at different localities. |
| BOT 5306 1 | Practical' s based on special | Experime ntal methodol ogies for crop | Experime ntal methodol ogies for crop | Experime ntal methodol ogies for crop | Experime ntal methodol ogies for crop | PO1: Disciplinary Knowledge. CO5. Get knowledge of |





| | | paper Advances in Plant Physiolog y | physiolog y. | physiolog y. | physiolog y. | physiolog y. | plant metabolism. |
|---------------------|------------------|---|--|--|--|--|---|
| | BOT 5306 2 | Practical' s based on special paper Advances in Mycolog y and Plant Patholog y | Identificat ion of fungi and preparatio n of their pure culture. | PO 9: Self- directed and Life-long Learning. CO7. Analyze industrial applications of algae. |
| M.Sc. II Sem. IV | BOT 5401 | Plant Patholog y | Knowledg e about agricultur al crop diseases. | Knowledg e about agricultur al crop diseases. | Knowledg e about agricultur al crop diseases. | Knowledg e about agricultur al crop diseases. | PO 3: Social competence. CO3. Agricultural crop diseases |
| | BOT 5402 | Industrial Botany | Knowledg e about different technolog ies and use in industries. | PO 9: Self- directed and Life-long Learnin g. CO7. Learn nutrition garden and entrepre neurship. |





| BOT 5403 | Plant Biotechn ology | Expertise in tissue culture. | Expertise in tissue culture. | Expertise in tissue culture. | Expertise in tissue culture. | PO2: Critical Thinking and Proble m Solving. CO7. Expertise in different molecul ar techniques. |
|------------------|--|---|---|---|---|--|
| BOT 5404 1 | Advances in Plant Physiolog y | Different skills of crop physiolog y and enzymolo gy. | Different skills of crop physiolog y and enzymolo gy. | Different skills of crop physiolog y and enzymolo gy. | Different skills of crop physiolog y and enzymolo gy. | PO 4: Research- related skills and Scientif ic temper. CO7. Students get knowledge of biomole cules. |
| BOT 5404 2 | Advances in Mycolog y and Plant Patholog y | Knowledg e about role of fungi as saprotrop hs. | PO1: Disciplinary Knowledge. CO5. Know fungi as pathological relation ships with other organis ms. |
| BOT 5405 | Practical' s Based on 5401, 5402 and 5403 | Knowledg e about fungal, bacterial, nematodal and viral diseases. | Knowledg e about fungal, bacterial, nematodal and viral diseases. | Knowledg e about fungal, bacterial, nematodal and viral diseases. | Knowledg e about fungal, bacterial, nematodal and viral diseases. | PO1: Disciplinary Knowledge. CO1. Study fungal, bacterial, nematode |





| | | | | | | land viral |
|---------|------------|----------------|----------------|-------------|----------------|---------------|
| | | | | | | disaasas |
| DOT | D 1 | T Z 1 1 | T Z 1 1 | TZ 1 1 | T Z 1 1 | UISCASES. |
| ROL | Research | Knowledg | Knowledg | Knowledg | Knowledg | POI: |
| 5406 | Projects, | e about | e about | e about | e about | Disciplinary |
| 5400 | Review | review of | review of | review of | review of | Knowledge. |
| | of | literature. | literature. | literature. | literature. | |
| | Literature | | | | | CO3. |
| | and | | | | | Understand |
| | Summer | | | | | the review of |
| | Training | | | | | literatur |
| | | | | | | е. |
| | | | | | | |





COMPUR SCIENCE

| Program me | Course Code | Course Title | Topic in the syllabus which ha relevance to the developmenta needs | | | | POs, PSO's & COs |
|------------------------------------|----------------|---|--|--------------------------------|--------------------------------|---------------------------------|--|
| | | | needs Local | Nation al | Region al | Glob al | |
| | CSCO2 301 | Data Structure s using C | Binary tree | Binary tree | | Binar y tree | CO1:Use well- organized data structures in solving various CO2:problems.Differ entiate the usage of various structures in problem solution. |
| B.Sc. (Comput er Science) | CSCO2 302 | Introduct ion to Web Technolo gy | Alpha Color Space | Alpha Color Space | | Alph a Color Spac e | PO1:To understand different Web technologies. PO2: To keep pace with the rapidly changing landscape of web application development. |
| Science) (UG) | CSCO2 401 | Object Oriented Concepts using Java | Array of Objects | Array of Objects | | Array of Obje cts | 1)CO1:Understand Object Oriented Concepts 2)CO2:Handle different type of Exceptions in program. |
| | CSCO2 402 | Software Engineer ing | Structu red Analysi s | Structu red Analysi s | Structu red Analysi s | | 1)CO1:Students can adopt relevant methods and procedures. An ability to work in one or more significant application |



| तुळजाराम चतुरचंद महाविद्यालय, वारामती Dr. Avinash S. Jagtap M.Sc. Ph.D. | Ar TULJARAM C of Arts, Science | ।। सिध्दिरनेकान्तात्।। Anekant Education Society's LJARAM CHATURCHAND COLLEGE of Arts, Science and Commerce, Baramati - 413102. Dist. Pune. Maharashtra, India. | | | | |
|--|--------------------------------------|---|--|--|--|--|
| principal.tccollege@gmail.com | Religious Minority Institute | NAAC Reaccredited 'A+' Grade, CGPA 3.55 | | | | |
| AAC-SSR | Cycle IV | 2019 - 2024 | | | | |

| Progra | Course | Course | Topic in t | he syllabus | relevance | POs, PSO's & | |
|----------|--------|----------|------------|-------------|-----------|--------------|---------------------|
| mme | Code | Title | to the dev | elopmental | needs | | COs |
| | | | Local | National | Regional | Global | |
| | COMP | Mobile | Radio | Radio | | | 1)CO1:Create |
| | 5301 | Technolo | Subsyste | Subsyste | | | native android |
| | | gies | m | m | | | applications using |
| | | | | | | | basic |
| | | | | | | | concepts2)CO2:U |
| | | | | | | | nderstand UI |
| | | | | | | | design or controls |
| | | | | | | | available in |
| | | | | | | | android. |
| | COMD | Soft | Nouron | Nouron | | Nouron | 1) DO1: Deceribe |
| | 5202 | Computi | Abstracti | Abstracti | | Abstracti | 1)FOI.Describe |
| M.Sc. | 5502 | ng | Abstracti | on | | Abstracti | intelligence and |
| (Compu | | ng | OII | UII | | OII | |
| ter | | | | | | | 2)PO2·Explain |
| Science) | | | | | | | how intelligent |
| (PG) | | | | | | | system works |
| | COMP | Web | Social, | Social, | Social, | Social, | 1)CO1:Understan |
| | 5303 | Services | Entertain | Entertain | Entertain | Entertain | d the principles of |
| | | | ment | ment | ment | ment | SOA |
| | | | | | | | 2)CO2:Efficiently |
| | | | | | | | use market |
| | | | | | | | leading |
| | | | | | | | environment tools |
| | | | | | | | to create and |
| | | | | | | | consume web |
| | | | | | | | services |



| principaliteconege@gmail.com | Religious Minority Institute | NAAC Reaccredited A+ Grade, CGPA 3.55 | | | | | |
|--------------------------------------|---|--|--|--|--|--|--|
| principal tecollege@amail.com | Policious Minerity Institute | NIAAC Becomedited (A+2 Crede CCDA 2.55 | | | | | |
| Dr. Avinash S. Jagtap M.Sc. Ph.D. | Dist. Pune. Maharashtra, India. | | | | | | |
| महाविद्यालय, बारामती | of Arts, Science and Commerce, Baramati - 413102. | | | | | | |
| अनेवर्गत एञ्च्र्येकाल कोत्राव्हीचे | TULJARAM CHATURCHAND COLLEGE | | | | | | |
| | Anekant Education Society's | | | | | | |
| Findax-han-may | ।। सिध्दिरनेकान्तात्।। | | | | | | |

| COMP | Software | Broker | Broker | Broker | 1)CO1:Able to |
|------|-----------|---------|---------|---------|---------------------|
| 5304 | Architect | pattern | pattern | pattern | assist learner to |
| | ure& | | | | utilize styles and |
| | Design | | | | views to state |
| | Pattern | | | | Architecture, |
| | | | | | define |
| | | | | | documentation, |
| | | | | | analyze2)CO2: |
| | | | | | the architectural |
| | | | | | structures and it's |
| | | | | | Influence on |
| | | | | | business and |
| | | | | | development |
| | | | | | process. |
| COMP | Recent | Smartie | Smartie | | 1)CO1:Enable |
| 5307 | Trends in | Approac | Approac | | learners to |
| | IT | h | h | | understand |
| | | | | | System On Chip |
| | | | | | Architectures.2)C |
| | | | | | O2: Introduction |
| | | | | | and preparing |
| | | | | | Raspberry Pi with |
| | | | | | hardware and |
| | | | | | installation. |
| | | | | | |





ENVIRONMENTAL SCIENCE

| Program | Cours | Course | Topic in tl | POs, | | | |
|-----------|-------|-----------|-------------|-------------|-----------|-----------|--------------|
| me | e | Title | the develop | pmental nee | ds | | PSO's & |
| (UG) | Code | | Local | National | Regional | Global | COs |
| B.Sc. | EVS1 | Fundame | Environm | Environm | Environm | Environm | CO1: |
| Environm | 101 | ntals of | ental | ental | ental | ental | Students |
| ental | | Environm | issues | issues | issues | issues | will be able |
| Science | | ental | | | | | to |
| F.Y.B.Sc. | | Science-I | | | | | understand |
| (Sem-I) | | | | | | | the issues |
| | | | | | | | of |
| | | | | | | | environme |
| | | | | | | | nt. |
| | | | | | | | PO1: |
| | | | | | | | Imparts |
| | | | | | | | conceptual |
| | | | | | | | knowledge |
| | | | | | | | of |
| | | | | | | | environme |
| | | | | | | | nt, their |
| | | | | | | | adaptations |
| | | | | | | | and |
| | | | | | | | interrelatio |
| | | | | | | | nship. |
| | EVS1 | Fundame | Ecologica | Ecologica | Ecologica | Ecologica | CO1: |
| | 102 | ntals of | 1 | 1 | 1 | 1 | Aware |
| | | Environm | adaptatio | adaptatio | adaptatio | adaptatio | about the |
| | | ental | ns and | ns and | ns and | ns and | environme |
| | | Biology-I | bio- | bio- | bio- | bio- | nt and its |
| | | 0,0 | resources | resources | resources | resources | significanc |
| | | | | | | | e |
| | | | | | | | PO1: To |
| | | | | | | | learn about |
| | | | | | | | interrelatio |
| | | | | | | | nship and |
| | | | | | | | discipline |
| | | | | | | | in 🕺 |





| | | | | | | | environme |
|-----------------------|-------------|--|--|------------------------------|------------------------------|------------------------------|--|
| | | | | | | | nt science. |
| | EVS1 103 | Practical based on EVS1101 and EVS1102 | 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 conservatio n. |
| F.Y.B.Sc. (Sem-II) | EVS 1201 | 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 and remote sensing. |
| | EVS 1202 | Fundame ntals of | Biodivers ity and its | Biodivers ity and its | Biodivers ity and its | Biodivers ity and its | CO1: Students |





| | | Environm ental Biology- II | conservat | conservat | conservat | conservat | will be able to understand to maintain life supporting systems and essential ecological processes. |
|------------------------|-------------|---|--|-----------|-----------|-----------|--|
| | | | | | | | about conservatio n and sustainable use of Biodiversit y. |
| | EVS 1203 | Practical based on EVS 1201 and EVS 1202 | Environm ental issues, use of science and technolog y | - | - | - | CO1: Students will experience about innovative methodolo gy to solve environme ntal problems. |
| S.Y.B.Sc. (Sem-III) | EVS 2301 | Natural resources | resources | resources | resources | resources | CO1: Students will be able to understand future sustainabili ty of natural resources. |





| | | | | | | | PO1: learn basic resources |
|-----------|------|--------------|-----------|-----------|-----------|-----------|----------------------------------|
| | | | | | | | natural, |
| | | | | | | | forest, |
| | | | | | | | Grasslands |
| | EVS | Environm | Control | Control | Control | Control | CO1: |
| | 2302 | ental | of Soil, | of Soil, | of Soil, | of Soil, | Students |
| | | pollution | and water | and water | and water | and water | will help to |
| | | and | pollution | pollution | pollution | pollution | acquire |
| | | control-I | | | | | knowledge |
| | | | | | | | about |
| | | | | | | | treatments |
| | | | | | | | for |
| | | | | | | | maintainin |
| | | | | | | | g soil and |
| | | | | | | | water |
| | | | | | | | PO1: |
| | | | | | | | understand |
| | | | | | | | resources, |
| | | | | | | | vermicultu |
| | | | | | | | re in day to |
| | | | | | | | day life, |
| | | | | | | | Sponge |
| | TMO | | D : | D : | D : | D : | fishery |
| | EVS | Practical | Rain | Rain | Rain | Rain | COI: |
| | 2303 | based on | water | water | water | water | Students |
| | | EVS | narvestin | narvestin | narvestin | narvestin | will be able |
| | | 2301 and EVS | g | g | g | g | 10 |
| | | EVS 2302 | | | | | |
| | | 2302 | | | | | casy way |
| | | | | | | | and prevent |
| | | | | | | | soil erosion |
| | | | | | | | and flood |
| | | | | | | | hazard. |
| S.Y.B.Sc. | EVS | Solid and | Plastic | Plastic | Plastic | Plastic | CO1: |
| (Sem-IV) | 2401 | Hazardou | and e- | and e- | and e- | and e- | Students |
| | | s waste | waste | waste | waste | waste | will help to |
| | | | | | | | acquire |





| | | managem ent | | | | 2 | 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 consequen ces of human exposure to pollution and its impacts to environme ntal quality. |
| | EVS 2403 | Practical based on EVS | Total chlorophy ll of plant | Total chlorophy ll of plant | Total chlorophy ll of plant | Total chlorophy ll of plant | CO1: Students will learn |





| | 2401 and | | | to identify |
|--|----------|--|--|-------------|
| | EVS | | | impacts of |
| | 2402 | | | pollutant |
| | | | | on plants. |





MATHEMATICS

| Program me | Cou rse Cod | Course Title | Topic in t | he syllabus v the developi | which has re nental needs | elevance to s | POs, PSO's & |
|----------------------------------|-------------------|------------------------------------|---|--|---------------------------------------|---|---|
| | e | | Local | National | Regional | Global | Cos |
| 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 theoretical and practical |



| Stoff Palantama | | | | | | |
|---|---|---|--|--|--|--|
| 1962 | | ।। साध्दरनकान्तात्।। | | | | |
| | An | ekant Education Society's | | | | |
| अनेकांत एज्युकेलन सीसाम्हतिथे तत्व्रजाराम चत्तरचेद | TULJARAM CHATURCHAND COLLEGE | | | | | |
| महाविद्यालय, यारामती | of Arts, Science and Commerce, Baramati - 413102. | | | | | |
| Prof. Dr. Avinash S. Jagtap | D | ist. Pune. Maharashtra, India. | | | | |
| M.Sc. Ph.D. PRINCIPAL | Em | powered Autonomous Status | | | | |
| E-mail : principal.tccollege@gmail.com | Religious Minority Institute | NAAC Reaccredited 'A+' Grade, CGPA 3.55 | | | | |
| NAAC-SSR | Cycle IV | 2019 - 2024 | | | | |

| | | | | | | | understandi ng generated from the specific graduate programme in the area |
|----------------------------------|-----------------|---|--|---|----------------------------------|---------------------|---|
| 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 |



| 20 Prime | | ~~ `` | | | | | |
|---|---|---|--|--|--|--|--|
| 1962 | | ।। सिध्दिरनेकान्तात्।। | | | | | |
| | An | ekant Education Society's | | | | | |
| अनेकांग एउनुकेनन संसाद्धतिये तत्र जाराम चत्र रहेत् | TULJARAM CHATURCHAND COLLEGE | | | | | | |
| महाविद्यालय, बारामती | of Arts, Science and Commerce, Baramati - 413102. | | | | | | |
| Prof. Dr. Avinash S. Jagtap | Dist. Pune. Maharashtra, India. | | | | | | |
| M.Sc. Ph.D. PRINCIPAL | Em | powered Autonomous Status | | | | | |
| E-mail : principal.tccollege@gmail.com | Religious Minority Institute | NAAC Reaccredited 'A+' Grade, CGPA 3.55 | | | | | |
| NAAC-SSR | Cycle IV | 2019 - 2024 | | | | | |

| | 1 | 1 | | | 1 | 1 | |
|----------------------------------|-----------------|------------------------------------|--|--|---------------------------------------|--|---|
| | | | | | | | practical understandi ng generated from the specific graduate programme in the area of work. |
| 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 | CO1: 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. PO1: Disciplinar y Knowledge 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. |
| | | | Traffia | D aviasaa | Local | Aerospace | |
| D.C. | | Ordinary | 1 rainc | Environm | Industrial | and Space | |
| B.SC. | МТ | Different | Control, | | Processes | Exploratio | |
| (Mathem | M1 225 | ial | water | Policy | , Natural | n, Global | - |
| atics) | 335 | Equation | Resource | and | Resource | Energy | |
| UG | | s | Managem | Climate | Managem | Managem | |
| | | | ent | Change | ent | ent | |
| | | | Linear | Linear | Linear | Linear | |
| | | | Programm | Program | Program | Programm | |
| D.C. | | | ing | ming | ming | ing | |
| B.SC. | MT | Operatio | Model, | Model, | Model, | Model, | |
| (Mathem | 337 | ns | Transport | Transport | Transport | Transport | - |
| atics) | Α | Research | ation | ation | ation | ation | |
| UG | | | Model, | Model, | Model, | Model, | |
| | | | Assignme | Assignme | Assignme | Assignme | |
| | | | nt Model | nt Model | nt Model | nt Model | |
| DSa | | Partial | Heat | Energy | Environm | Oceanogr | |
| D.SC. | MT | Different | Transfer, | distributio | ental | aphy and | |
| (Iviatnem | | ial | Groundwa | n and grid | Impact | sea level | - |
| atics) | 545 | Equation | ter flow, | optimizati | Assessme | rise, | |
| UG | | s | Traffic | on, | nts | Tsunami | |



| | | | flow in complex road system | Natural Disaster Prediction and Response | | and natural disaster simulation | |
|----------------------------------|-----------------|---|--|---|---|--|---|
| B.Sc. (Mathem atics) UG | MT 347 A | 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 | - |
| M.Sc. (Mathem atics) PG | MA T 4105 | 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 | CO1: Student will be able to find the complete solution of a nonhomoge neous differential equations as a linear combinatio n of complemen tary function and a particular solution. CO2: Student will be able to understand |





| | | | | | | the | |
|---|---|---|---|---|---|-------------------------|----|
| | | | | | | complete | |
| | | | | | | solution of | l |
| | | | | | | а | |
| | | | | | | nonhomoge | |
| | | | | | | neous | |
| | | | | | | differential | |
| | | | | | | equation | |
| | | | | | | with | |
| | | | | | | constant | |
| | | | | | | coefficients | |
| | | | | | | by the | |
| | | | | | | method of | |
| | | | | | | undetermin | |
| | | | | | | ed | |
| | | | | | | coefficients | |
| | | | | | | coefficients | |
| | | | | | | PO8. | |
| | | | | | | TOO. Environmo | |
| | | | | | | nt and | |
| | | | | | | III allu Sustainabil | |
| | | | | | | | |
| | | | | | | ILY: Lindonstand | |
| | | | | | | the impost | |
| | | | | | | of the | |
| | | | | | | of the | |
| | | | | | | scientific | |
| | | | | | | solutions in | l |
| | | | | | | societal and | l |
| | | | | | | tol contexts | l |
| | | | | | | ial contexts | l |
| | | | | | | domor strat- | l |
| | | | | | | demonstrate | l |
| | | | | | | line | |
| | | | | | | knowledge | l |
| | | | | | | of and need | l |
| | | | | | | IOr | l |
| | | | | | | sustainable | |
| | | | | | | developmen | |
| 1 | 1 | 1 | 1 | 1 | 1 | T T | 12 |





| on of vect spaces, properties of vector spaces and their application in real world. PO1: Disciplina y Knowleds | | | | | | | CO1: matrix representati |
|--|----------|---------|------------|----------|----------|---------|--------------------------------|
| spaces, properties of vector spaces and their application in real world. PO1: Disciplina y Knowledg | | | | | | | on of vector |
| properties of vector spaces and their application in real world. PO1: Disciplina y Knowledg | | | | | | | spaces, |
| of vector spaces and their application in real world. PO1: Disciplina y Knowledg | | | | | | | properties |
| spaces and their application in real world. PO1: Disciplina y Knowledg | | | | | | | of vector |
| their application in real world. PO1: Disciplina y Knowledg | | | | | | | spaces and |
| application in real world. PO1: Disciplina y Knowledg | | | | | | | their |
| world. PO1: Disciplina y Knowledg | | | | | | | applications |
| PO1: Disciplina y Knowledg | | | | | | | world |
| Disciplina y Knowledg | | | | | | | PO1: |
| y Knowledg | | | | | | | Disciplinar |
| Knowledg | | | | | | | V |
| | | | | | | | Knowledge |
| | | | | | | | : |
| Statistics Global Demonstra | | | Statistics | | | Global | Demonstrat |
| M.Sc. MA and data National Environm supply | Sc. MA | | and data | National | Environm | supply | e |
| (Mathem T Linear analysis economic ental chain compreher | nem T | Linear | analysis | economic | ental | chain | comprehens |
| atics) 4204 Algebra for local planning studies managem ve | (s) 4204 | Algebra | for local | planning | studies | managem | 1ve |
| research ent knowledge | J | | research | | | ent | knowledge |
| discipline | | | | | | | disciplines |
| that form | | | | | | | that form a |
| part of a | | | | | | | part of a |
| postgradu | | | | | | | postgraduat |
| e | | | | | | | e |
| programm | | | | | | | programme. |
| Execute | | | | | | | Execute |
| strong | | | | | | | strong |
| theoretical | | | | | | | theoretical |
| and | | | | | | | and |
| practical | | | | | | | practical |
| understand | | | | | | | understandi |
| ng | | | | | | | ng |
| generated | | | | | | | generated |
| from the | | | | | | | from the |
| specific | | | | | | | programme |





| | | | | | | | in the area of work. |
|----------------------------------|-----------------|--|---|--|--|---|--|
| M.Sc. (Mathem atics) PG | MA T 4205 | 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 of and need for sustainable developmen t. |
| M.Sc. (Mathem atics) PG | MA T 5304 | Graph Theory | Social network analysis | National security and defense planning | Cybersec urity and network security | Global transportat ion and logistics network | 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 |
| | | | terms of |
| | | | generic |
| | | | conventions |
| | | | . Identify |
| | | | the problem |
| | | | by |
| | | | observing |
| | | | the |
| | | | situation |
| | | | closely, |
| | | | take actions |
| | | | and apply |
| | | | lateral |
| | | | thinking |
| | | | and |
| | | | analytical |
| | | | skills to |





| | 00 | |
|-------|-------------------|-------------------|
| | | |
| I A A | ALC: NOT THE REAL | The second second |

2019 - 2024

| | | | | | | | 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 observation 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 |
| | | | | | | | and |
| | | | | | | | research |
| | | | | | | | ethics |
| | | | | | | | scientific |
| | | | | | | | conduct and |
| | | | | | | | creating |
| | | | | | | | awareness |
| | | | | | | | about |
| | | | | | | | intellectual |
| | | | | | | | property |
| | | | | | | | rights and |
| | | | | | | | issues of |
| | | | | | | | nlagiarism |
| | | | | | | | |
| | | | | | | | Student will |
| | | | | | | | be able to |
| | | | | | | | understand |
| | | | | | | | the |
| | | | Signal | National | | Global | treatment of |
| M.Sc. | ΜΔ | | processing | healthcare | Manufact | environme | Fourier |
| (Mathem | T | Fourier | and | and | uring and | ntal and | Series and |
| atics) | 5403 | Analysis | communic | medical | industrial | climate | their |
| PG | 5-05 | | ation | technolog | processes | studies | applications |
| | | | system | У | | studies | to boundary |
| | | | | | | | value |
| | | | | | | | nrohlems in |
| | | | | | | | PDE of |
| | | | | | | | engineering |
| L | L | | 1 | 1 | 1 | 1 | engineering |





| | | | | | | | and physics. PO5: Trans- disciplinar y knowledge: Create new conceptual, theoretical and methodolog ical understandi ng that 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 |
| | | | 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. 🕼 |





| | | | | | | | PO4: |
|---------|------|---------|----------|------------------|-----------|-------------|------------------|
| | | | | | | | Research- |
| | | | | | | | related |
| | | | | | | | skills and |
| | | | | | | | Scientific |
| | | | | | | | temper: |
| | | | | | | | Infer |
| | | | | | | | scientific |
| | | | | | | | literature, |
| | | | | | | | build a |
| | | | | | | | sense of |
| | | | | | | | enquiry and |
| | | | | | | | able to |
| | | | | | | | formulate |
| | | | | | | | test, |
| | | | | A 1 · | | | analyse, |
| | | | | Advancin | Durantin | Durantina | interpret |
| MCa | | | Problem- | g model areas | Promotin | Promoting | and |
| M.SC. | MA | | solving | inathemat | g | | bymothesis |
| (Mathem | Т | Project | and | knowlada | inquiry | nai | and |
| PG | 5406 | | critical | e and | and | collaborati | research |
| 10 | | | thinking | innovatio | curiosity | on | questions. |
| | | | | n | curiosity | on | 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. |




MICROBIOLOGY

| Progra Course | Course | Topic in the syllabus which has relevance to the developmental needs | | | POs, PSO's & | |
|-------------------------|---|--|-------------------------|------|--|--|
| | Inte | | the developmental needs | | | |
| | | Local | Natio | Regi | Global | |
| | | | nal | onal | | |
| F.Y.BS MICRO c. 1101 | (Theory) Introducti on to Microbiol ogy | Unit 2 : Application s of Microbiolog y with special reference to: Significance 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 | CO1: The students will obtain a fundament al understan ding of microbiol ogy areas. PO1: Disciplina ry Knowledg e: Demonstr ate comprehe nsive knowledg e of the disciplines that form a part of a graduate programm e. Execute strong theoretical and practical understan |





| | | | | | | generated | |
|--------|-------|-----------|--------------|--|-----------------|-------------|--------|
| | | | | | | from the | |
| | | | | | | specific | |
| | | | | | | graduate | |
| | | | | | | programm | |
| | | | | | | e in the | |
| | | | | | | area of | |
| | | | | | | work. | |
| | MICRO | (Theory) | Unit 3 : | | Unit 2 : | CO:1 | |
| F.Y.BS | 1102 | Basic | Characterist | | Microscopy | Introducti | |
| с. | | Techniqu | ics of an | | a) Structure, | on to the | |
| | | es In | ideal | | working and ray | microbiol | |
| | | Microbiol | Disinfectant | | diagram of : i. | ogy | |
| | | ogy | Checking of | | Bright Field | laboratory | |
| | | 25 | Efficiency | | Microscopy ii. | and | |
| | | | of | | Dark Field | familiariz | |
| | | | Disinfectant | | Microscopy | ation with | |
| | | | –Phenol | | 17 | common | |
| | | | Coefficient | | | microbiol | |
| | | | | | | ogy | |
| | | | | | | laboratory | |
| | | | | | | instrument | |
| | | | | | | S | |
| | | | | | | PO1: | |
| | | | | | | Disciplina | |
| | | | | | | ry | |
| | | | | | | Knowledg | |
| | | | | | | e: | |
| | | | | | | Demonstr | |
| | | | | | | ate | |
| | | | | | | comprehe | |
| | | | | | | nsive | |
| | | | | | | knowledg | |
| | | | | | | e of the | |
| | | | | | | disciplines | |
| | | | | | | that form | |
| | | | | | | a part of a | |
| | | | | | | graduate | |
| | | | | | | programm | 1. |
| | | | | | | e. Execute | Les la |
| | | | | | | strong | 8 |



| सिद्धिर्थयान्सर अवसार प्रवृषेश्व संसाधते। ब्रिडजाराम चतुरचंद महाविद्यालय, वारामती Prof. Dr. Avinash S. Jagtap M.Sc. Ph.D. | An TULJARAM C of Arts, Science | ।। सिध्दिरनेकान्तात्।। nekant Education Society's CHATURCHAND COLLEGE and Commerce, Baramati - 413102. Dist. Pune. Maharashtra, India. | | | |
|--|--------------------------------------|--|--|--|--|
| PRINCIPAL | Empowered Autonomous Status | | | | |
| E-mail : principal.tecollege@gmail.com | Religious Minority Institute | NAAC Reaccredited 'A+' Grade, CGPA 3.55 | | | |
| NAAC-SSR | Cycle IV | 2019 - 2024 | | | |

| | | | | | | theoretical and practical understan ding generated from the specific graduate programm e in the area of work. |
|--------------|---------------|---|---|--|---|--|
| F.Y.BS c. | MICRO 1103 | (Practical) Practical Based on theory | Exot no. 1 Principle & Standard Operating Procedures (SOP) for common microbiolog y laboratory instruments e.g. Incubator, Hot Air Oven, Autoclave, Colorimeter, pH Meter, Laminar air flow hood, Centrifuge | | Observation of Microorganisms using bright field microscope – Bacteria, Protozoa, Molds and Yeasts, Algae – from natural habitat | CO:1 Introduce students to the microbiol ogy laboratory environme nt and familiariz e them with commonly used microbiol ogy laboratory instrument s PO1: Disciplina ry Knowledg e: Demonstr ate comprehe |





| | | | | | neivo |
|--------|-------|------------|--|------------------|-------------|
| | | | | | |
| | | | | | knowledg |
| | | | | | e of the |
| | | | | | disciplines |
| | | | | | that form |
| | | | | | a part of a |
| | | | | | graduate |
| | | | | | programm |
| | | | | | e. Execute |
| | | | | | strong |
| | | | | | theoretical |
| | | | | | and |
| | | | | | practical |
| | | | | | understan |
| | | | | | ding |
| | | | | | generated |
| | | | | | from the |
| | | | | | specific |
| | | | | | graduate |
| | | | | | programm |
| | | | | | e in the |
| | | | | | e in the |
| | | | | | alea ol |
| | | | | | WOIK. |
| | MICRO | Introducti | | Unit 1 · | CO·1 |
| F Y BS | 1201 | on to | | Bacterial | The |
| C | 1201 | Microbiol | | Cytology | students |
| С. | | ogy | | Structure | will |
| | | (Theory) | | structure, | |
| | | (Theory) | | chemical | acquire a |
| | | | | functions of the | |
| | | | | functions of the | al |
| | | | | following: a) | understan |
| | | | | Flagella (Gram- | aing of |
| | | | | positive and | biochemis |
| | | | | Gram-negative) | try. |
| | | | | and types of | PO1: |
| | | | | motility | Disciplina |
| | | | | (spirochetal and | ry |
| | | | | gliding) | Knowledg |
| | | | | | e: (|
| | | | | | Demonstr 🕅 |





| | | | | | ate comprehe nsive knowledg e of the disciplines that form a part of a graduate programm e. Execute strong theoretical and practical understan ding generated from the specific graduate programm e in the area of work. |
|--------------|---------------|--|--|---|--|
| F.Y.BS c. | MICRO 1202 | (Theory) Basic Techniqu es in Microbiol ogy | | Unit3:IsolationandPreservationa)Isolationofbacteriaby - i.StreakPlateMethodii.SpreadPlateMethodiii.PlateMethodPlateMethod | CO:1 Develop a comprehe nsive understan ding of the principles and practical applicatio ns of various types of media. |





| | | | | | | including knowledg e of their componen ts |
|--------|-------|------------|---------------|--|-------------------|---|
| | MICRO | (Practical | Expt No. 9. | | Cultivation of | CO1: |
| F.Y.BS | 1203 |) | Study the | | microorganism | Introduce |
| с. | | Practical | effect of | | s: a) Preparation | students |
| | | Based on | soap and | | of simple | to the |
| | | theory | disinfectant | | laboratory | microbiol |
| | | | on skin | | media (solid and | ogy |
| | | | microflora | | liquid) (Nutrient | laboratory |
| | | | Expt no.7 | | Broth & Agar, | , |
| | | | Checking | | MacConkey's | acquaintin |
| | | | sterilization | | Broth & Agar & | g them |
| | | | efficiency of | | Potato Dextrose | with |
| | | | autoclave | | Broth & Agar) | standard |
| | | | using a | | | practices |
| | | | biological | | | applied in |
| | | | Indicator | | | both |
| | | | | | | research |
| | | | | | | and dia su a stia |
| | | | | | | microbiol |
| | | | | | | ogy |
| | | | | | | POI: |
| | | | | | | Disciplina |
| | | | | | | ry Kasasala da |
| | | | | | | Knowledg |
| | | | | | | e: Domonstr |
| | | | | | | Demonstr |
| | | | | | | comprehe |
| | | | | | | nsive |
| | | | | | | knowledg |
| | | | | | | e of the |
| | | | | | | disciplines |
| | | | | | | that form |
| | | | | | | a part of a |
| | | | | | | graduate |
| | | | | | | programm |



| मिद्धिरनेवय-सम् म्हाविद्यालय. बारामती | An TULJARAM C of Arts, Science | ।। सिध्दिरनेकान्तात्।। nekant Education Society's CHATURCHAND COLLEGE and Commerce, Baramati - 413102. | | | |
|---|--|---|--|--|--|
| Prof. Dr. Avinash S. Jagtap M.Sc. Ph.D. PRINCIPAL | Dist. Pune. Maharashtra, India. Empowered Autonomous Status | | | | |
| E-mail : principal.tecollege@gmail.com | Religious Minority Institute | NAAC Reaccredited 'A+' Grade, CGPA 3.55 | | | |
| NAAC-SSR | Cycle IV | 2019 - 2024 | | | |

| | | | | | e. Execute strong theoretical and practical understan ding generated from the specific graduate programm e in the area of |
|--------------|---------------|--|---|--|--|
| S.Y.BS c. | MICRO 2301 | (Theory) Bacterial Systemati cs and Physiolog y | Bacterial physiology a.Defination of metabolism, catabolism, respiration and fermentatio n | | CO:1 Students will demonstra te proficienc y in categorizi ng bacteria through analysis of their morpholo gical, biochemic al, and genetic traits. PO1: Disciplina ry Knowledg e: Demonstr |





| | | | | | ate |
|--------|-------|------------|-------------|--|-------------|
| | | | | | comprehe |
| | | | | | nsive |
| | | | | | knowledg |
| | | | | | e of the |
| | | | | | disciplines |
| | | | | | that form |
| | | | | | a part of a |
| | | | | | graduate |
| | | | | | programm |
| | | | | | e. Execute |
| | | | | | strong |
| | | | | | theoretical |
| | | | | | and |
| | | | | | practical |
| | | | | | understan |
| | | | | | ding |
| | | | | | generated |
| | | | | | from the |
| | | | | | specific |
| | | | | | graduate |
| | | | | | programm |
| | | | | | e in the |
| | | | | | area of |
| | | | | | work. |
| | | | | | |
| S.Y.BS | MICRO | (Theory) | I)Soil | | CO:1 |
| с. | 2302 | Industrial | microbiolo | | Students |
| | | and Soil | gy | | will |
| | | Microbiol | Role of | | understan |
| | | ogy | microorgani | | d the |
| | | | sms in | | importanc |
| | | | composting | | e of |
| | | | | | microorga |
| | | | | | nisms in |
| | | | | | cycling |
| | | | | | nutrients, |
| | | | | | maintainin |
| | | | | | g soil |
| | | | | | fertility, |
| | | | | | and |





| | | | | | | preserving soil health. |
|--------------|---------------|---|---|--|---|--|
| S.Y.BS c. | MICRO 2303 | (Practical) Practical course based on MICRO2 301 and MICRO2 302 | | | Expt 1 A)Absorbance measurement for bacterial culture b)Growth curve plotting by using computer software | CO:1 Comprehe nd the bacterial growth curve. CO:2 Introducti on to utilizing computer software in studies. |
| S.Y.BS c. | MICRO 2401 | (Theory) Air and Water Microbiol ogy | 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 will grasp the principles of microbial ecology, emphasizi ng the distinct characteri stics of microbial life within air and water environme nts. |



| 10/Patoman | | 00) | | | |
|--|--|---|--|--|--|
| | | ।। सिध्दिरनकान्तात्।। | | | |
| | Anekant Education Society's TULJARAM CHATURCHAND COLLEGE of Arts, Science and Commerce, Baramati - 413102. Dist. Pune. Maharashtra, India. | | | | |
| अनेकांत एत्युकेसड सोसाब्दतेव तुळजाराम चतुरचंद महाविद्यालय, बारामती | | | | | |
| Prof. Dr. Avinash S. Jagtap | | | | | |
| M.Sc. Ph.D. PRINCIPAL | Em | powered Autonomous Status | | | |
| E-mail : principal.tccollege@gmail.com | Religious Minority Institute | NAAC Reaccredited 'A+' Grade, CGPA 3.55 | | | |
| NAAC-SSR | Cycle IV | 2019 - 2024 | | | |

| S.Y.BS | MICRO | (Theory) | Prokaryotic | Prokaryotic | CO:1 |
|--------|-------|-----------|--------------|-----------------|------------|
| с. | 2402 | Bacterial | genome | genome | Comprehe |
| | | Genetics | organization | organization.Co | nsive idea |
| | | | • | mparative | about |
| | | | Comparativ | account of | molecules |
| | | | e account of | different forms | of |
| | | | different | of DNA. | heredity. |
| | | | DNA | | |
| | | | DNA. | | CO:2 |
| | | | | | Understan |
| | | | | | dings of |
| | | | | | ungs of |
| | | | | | ргокагуон |
| | | | | | c genome |
| | | | | | organizati |
| | | | | | on. |
| | | | | | |



| निरुद्धिरनेवागनसन् 1943 | | ।। सिध्दिरनेकान्तात्।। | | | |
|---|-------------------------------------|---|--|--|--|
| | An | nekant Education Society's | | | |
| अनेकांत एउन्होंनेजर कीताव्हीने तळजाराम चतुरचंद | TULJARAM C | CHATURCHAND COLLEGE | | | |
| महाविद्यालय, यारामती | of Arts, Science | and Commerce, Baramati - 413102. | | | |
| Prof. Dr. Avinash S. Jagtap | Dist. Pune. Maharashtra, India. | | | | |
| PRINCIPAL | Em | powered Autonomous Status | | | |
| E-mail : principal.tccollege@gmail.com | Religious Minority Institute | NAAC Reaccredited 'A+' Grade, CGPA 3.55 | | | |
| NAAC-SSR | Cycle IV | 2019 - 2024 | | | |

| S.Y.BS | MICRO | (Practical | Air | | Air sampling | CO:1 |
|--------|-------|-------------|---------------|--|----------------|--------------------|
| с. | 2403 |) Practical | sampling | | using an air | Students |
| | | course | using an air | | sampler & | have the |
| | | based on | sampler & | | calculation of | opportunit |
| | | MICRO2 | calculation | | air flora from | v to |
| | | 401 and | of air flora | | different | y 10 |
| | | MICRO2 | from | | locations with | investigat |
| | | 402 | different | | the knowledge | e the |
| | | | locations | | of respective | variety of |
| | | | with the | | standards of | microorga |
| | | | knowledge | | bacterial & | nisms |
| | | | of respective | | fungal counts. | present in |
| | | | standards of | | | both air |
| | | | bacterial & | | | and water |
| | | | fungal | | | DO1 . |
| | | | counts. | | | PUI: Discipling |
| | | | | | | Discipilla |
| | | | | | | ry Knowledg |
| | | | | | | A low long |
| | | | | | | C. Demonstr |
| | | | | | | ate |
| | | | | | | comprehe |
| | | | | | | nsive |
| | | | | | | knowledg |
| | | | | | | e of the |
| | | | | | | disciplines |
| | | | | | | that form |
| | | | | | | a part of a |
| | | | | | | graduate |
| | | | | | | programm |
| | | | | | | e. Execute |
| | | | | | | strong |
| | | | | | | theoretical |
| | | | | | | and |
| | | | | | | practical |
| | | | | | | understan |
| | | | | | | ding |
| | | | | | | generated |
| | | | | | | from the |
| | | | | | | specific 🦷 |





| | | | | | | graduate programm e in the area of work. |
|---------|--------|---------------------------------|--|--|---|--|
| T.Y.BSc | MB 331 | Medical Microbiol ogy - I | Respiratory system Gastrointest inal system Kidney and Liver Genital system Central nervous system | | Respiratory system Gastrointestinal system Kidney and Liver Genital system Central nervous system | - |





| | Genetics | Gene | Gene Linkage | - |
|----------|-----------|-----------------------|-----------------|---|
| | & | Linkage | and crossing | |
| | Molecula | and | and crossing | |
| | r Biology | erossing | Mandalian laws | |
| | I Diology | crossing | Decembination | |
| | - 1 | over: | | |
| | | Mendelian | in eukaryotes | |
| MB 332 | | laws, | DSB model | |
| | | Recombinat | Gene linkage | |
| | | ion in | and cross over | |
| | | eukaryotes | | |
| | | DSB model | | |
| | | Gene | | |
| | | linkage and | | |
| | | cross over | | |
| | Enzymol | Enzymes: | Enzymes: | - |
| | ogy | A. Structure | A. Structure of | |
| | 0. | of enzymes: | enzymes: | |
| | | Methods to | Methods to | |
| | | determine | determine | |
| | | amino acid | amino acid | |
| MB 333 | | residues at | residues at | |
| | | active site | active site | |
| | | (Physical | (Dhysical and | |
| | | (Thysical | (Thysical and | |
| | | allu | methods) | |
| | | cheffical motheda) | methods) | |
| | T 1 | methods) | T | |
| | Immunoi | Immunity: | Immunity: | - |
| | ogy - I | Definition | Definition and | |
| MB 334 | | and | Classification | |
| | | Classificatio | | |
| | | n | | |
| | Fermenta | Strain | Strain | - |
| | tion | Improveme | Improvement: | |
| | Technolo | nt: | | |
| | gy -I | | Objective of | |
| MD 225 | | Objective of | strain | |
| IVID 333 | | strain | improvement | |
| | | improvemen | Methods for | |
| | | t | strain | |
| | | Methods for | improvement: | (|
| | | strain | mutagens used | |



| | | improvemen | for strain | |
|---------|--------------------|----------------------------|----------------------|-------|
| | | t: mutagens | improvement; | |
| | | used for | selection of | |
| | | strain | different types | |
| | | improvemen | of mutants e.g. | |
| | | t: selection | mutants | |
| | | of different | | |
| | | types of | | |
| | | mutants e g | | |
| | | mutants | | |
| | Food & | Dairy | Dairy | |
| | Doiry | Dall y Dovolonmo | Dan y Dovelopment | - |
| | Dally Microbiol | Developille nt in India | in India. | |
| | MICTODIO | Dele ef | Dele of Netional | |
| | ogy | Kole of | Kole of National | |
| | | Inational | Dairy | |
| | | Dairy | Development | |
| | | Developme | Board (NDDB), | |
| | | nt Board | National Dairy | |
| | | (NDDB), | Research | |
| | | National | Institute | |
| | | Dairy | (NDRI), | |
| MD 226 | | Research | Military dairy | |
| WID 550 | | Institute | farm, Indian | |
| | | (NDRI), | Dairy | |
| | | Military | Corporation | |
| | | dairy farm, | (IDC), Dairy | |
| | | Indian Dairy | Co-operatives, | |
| | | Corporation | Milk Grid. | |
| | | (IDC). Dairy | Operation Flood | |
| | | Co- | - F | |
| | | operatives | | |
| | | Milk Grid | | |
| | | Operation | | |
| | | Flood | | |
| | Medical | Chemother | Chemotherapy | |
| | Microbiol | anv | | _ |
| | | apy. Introduction | Introduction to | |
| MR 2/1 | 0gy - 11 | to | chemothereny | |
| WID 341 | | ahomothere | Desirable | |
| | | chemothera | | l l l |
| | | ру | parameters of | |
| | 1 | | 1 2000 | 1 1 |





| | | | Desirable | | chemotherapeut | |
|--|--------|---------------|---------------|---|----------------------|-----|
| | | | parameters | | ic agent | |
| | | | of good | | (Selective | |
| | | | chemothera | | toxicity, | |
| | | | peutic agent | | Bioavailability | |
| | | | (Selective | | of Drug. MIC. | |
| | | | toxicity | | MBC LD-50 | |
| | | | Bioavailabil | | value. Routes of | |
| | | | ity of Drug | | drug | |
| | | | MIC MBC | | | |
| | | | LD-50 | | | |
| | | | value | | | |
| | | | Routes of | | | |
| | | | drug | | | |
| | | Genetics | Cono | | Cono transfor | |
| | | | transfor by | | by | - |
| | | a Molecule | transforma | | Uy transformation | |
| | | | | | transformation | |
| | | r Biology | | | · Derelement of | |
| | | - 11 | Developme | | Development of | |
| | MD 242 | | nt of | | Competence in | |
| | MB 342 | | competence | | Gram positive | |
| | | | in Gram | | and Gram | |
| | | | positive and | | negative | |
| | | | Gram | | bacteria. | |
| | | | negative | | | |
| | | | bacteria. | | | |
| | | Metabolis | Membrane | | Membrane | |
| | | m | transport | | transnort | _ |
| | | 111 | mechanism | | mechanisms. | |
| | | | s. | | Dassive | |
| | | | B. Dassive | | transport - | |
| | | | transport | | Diffusion | |
| | MB 343 | | Diffusion | | Osmosis | |
| | | | Osmosia | | Eacilitated | |
| | | | Equilitated | | trongnort | |
| | | | transport | | Active transport | |
| | | | Activo | | Active | |
| | | | Active | | - Active | |
| | | | transport - | | transport | l l |
| | | | Active | | systems in | |
| | | | transport | 1 | bacteria | |



| | | | systems in bacteria | | |
|--|--------|--|--|--|---|
| | MB 344 | Immunol ogy - II | Major Histocomp atibility Complex: Structure of MHC in man and mouse Structure and functions of MHC class– I and class– I molecules | Major Histocompatibi lity Complex: Structure of MHC in man and mouse Structure and functions of MHC class–I and class–II molecules | - |
| | MB 345 | Fermenta tion Technolo gy -II | Enzymes (Amylase, Esterases and Restriction enzymes) . Vaccines (Polio, Tetanus and Rabies) | Enzymes (Amylase, Esterases and Restriction enzymes) . Vaccines (Polio, Tetanus and Rabies) | - |
| | MB 346 | Soil & Agricultu ral Microbiol ogy | Agriculture Technology Plant growth improveme nt with respect to: Disease resistance Environmen tal tolerance | Agriculture Technology Plant growth improvement with respect to: Disease resistance Environmental tolerance | - |



| | MB 347 | Practical course – I Applied Microbiol | Screening and isolation of pesticide degrading | Screening and isolation of pesticide degrading | - |
|------------------|---------------|--|---|--|--|
| | | ogy | sms from soil. | from soil. | |
| | MB 348 | Practical course – II Biochemi stry & Genetics | Determinati on of absorption spectra and molar extinction co-efficient (by colorimetry/ spectrophot ometry) | Determination of absorption spectra and molar extinction co-efficient (by colorimetry/ spectrophotome try) | - |
| | MB 349 | Practical course – III Diagnosti c Microbiol ogy & Immunol ogy | Clinical microbiolo gy: Physical, Chemical and Microscopic examination of Clinical samples – urine, stool, pus, sputum | Clinical microbiology: Physical, Chemical and Microscopic examination of Clinical samples – urine, stool, pus, sputum | - |
| M.SC. I Sem-I | MICRO 4101 | Microbial Systemati cs and Diversity | | UNIT3:Exploration ofUn-culturablebacteriaMethods of extractingtotal bacterialDNA from ahabitat and | CO:1 Students will be able to understan d the principles and methods |



| NAAC-SSR | Cycle IV | 2019 - 2024 | | | | |
|---|---|--|--|--|--|--|
| E-mail : principal.tecollege@gmail.com | Religious Minority Institute | NAAC Reaccredited 'A+' Grade, CGPA 3.55 | | | | |
| Prof. Dr. Avinash S. Jagtap M.Sc. Ph.D. PRINCIPAL | Em | vist. Pune. Maharashtra, India. powered Autonomous Status | | | | |
| तुळजारामं चतुरचद महाविद्यालय, बारामती | of Arts, Science and Commerce, Baramati - 413102. | | | | | |
| अनेमधंत पञ्चवेत्वयन सोसाम्प्रदेखि | TULJARAM C | CHATURCHAND COLLEGE | | | | |
| | An | ekant Education Society's | | | | |
| 124622 C 12402 | | ।। सिध्दिरनेकान्तात्।। | | | | |
| | | | | | | |

| | | | | | metagenome analysis. Approaches to identify Culture -NGS (Next generation Sequence) | behind studying and identifyin g cultured and uncultured microorga nisms. |
|--|---------------|-----------------------------|--|--|---|---|
| | MICRO 4102 | Quantitati ve Biology | Importance of statistics in Biology • Samples and Population • Types of data • Random sampling methods and sampling errors • Scales and Variables • Collection and organization of data | | Importance of statistics in Biology • Samples and Population • Types of data • Random sampling methods and sampling errors • Scales and Variables • Collection and organization of data | CO:1 Students should able to demonstra te a comprehe nsive understan ding of fundament al statistical concepts and principles applicable to biological and health sciences. |
| | MICRO 4103 | Biochemi stry | | | UNIT 3: Protein Chemistry Tertiary and Quaternary structures of proteins, (Myoglobin & Hemoglobin) | CO:1 Demonstr ate a comprehe nsive understan ding of the structure |



| सिद्ध-वेवा-स्वा अवमान परवृषेम्ब संसाधतेन सुळजाराम चतुरचंद महाविद्यालय, वारामती Prof. Dr. Avinash S. Jagtap M.Sc. Ph.D. PRINCIPAL | An TULJARAM C of Arts, Science D Em | ।। सिध्दिरनेकान्तात्।। nekant Education Society's CHATURCHAND COLLEGE and Commerce, Baramati - 413102. Dist. Pune. Maharashtra, India. powered Autonomous Status |
|--|---|---|
| E-mail : principal.tecollege@gmail.com | Religious Minority Institute | NAAC Reaccredited 'A+' Grade, CGPA 3.55 |
| NAAC-SSR | Cycle IV | 2019 - 2024 |

| | | | | | | function, and properties of biomolecu les, including proteins, carbohydr ates, lipids, and nucleic acids. |
|--|---------------|-----------------------------------|----------------------------|--|--|---|
| | MICRO 4104 | 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 Enzyme coupled receptor | CO:1 Student able to identify and describe the structure of eukaryotic and prokaryoti c cells. |
| | MICRO 4105 | Practical Course: Microbial | 1)Isolation of bacteria | | | CO:1 Enrich students' |



| Tall 2 read | | ।। सिध्दिरनेकान्तात्।। | | | | |
|--|---|---|--|--|--|--|
| | Anekant Education Society's | | | | | |
| अनेकांत एन्यूमेलन सीसाप्टीये जन्द्रजाराम चतरचेत | TULJARAM CHATURCHAND COLLEGE | | | | | |
| महाविद्यालय, बारामती | of Arts, Science and Commerce, Baramati - 413102. | | | | | |
| Prof. Dr. Avinash S. Jagtap | Dist. Pune. Maharashtra, India. | | | | | |
| M.Sc. Ph.D. PRINCIPAL | Em | powered Autonomous Status | | | | |
| E-mail : principal.tccollege@gmail.com | Religious Minority Institute | NAAC Reaccredited 'A+' Grade, CGPA 3.55 | | | | |
| NAAC-SSR | Cycle IV | 2019 - 2024 | | | | |

| | Systemati | from natural | | | knowledg |
|-------|-----------|--------------|--|--|-------------|
| | cs | samples. | | | e and train |
| | | 2) Isolation | | | them in |
| | | of fungi | | | the pure |
| | | from natural | | | microbial |
| | | samples. | | | sciences |
| | | 3)Isolation | | | PO1: |
| | | of | | | Disciplina |
| | | extremophil | | | ry |
| | | es from | | | Knowledg |
| | | natural | | | e: |
| | | samples. | | | Demonstr |
| | | _ | | | ate |
| | | | | | comprehe |
| | | | | | nsive |
| | | | | | knowledg |
| | | | | | e of the |
| | | | | | disciplines |
| | | | | | that form |
| | | | | | a part of a |
| | | | | | graduate |
| | | | | | programm |
| | | | | | e. Execute |
| | | | | | strong |
| | | | | | theoretical |
| | | | | | and |
| | | | | | practical |
| | | | | | understan |
| | | | | | ding |
| | | | | | generated |
| | | | | | from the |
| | | | | | specific |
| | | | | | graduate |
| | | | | | programm |
| | | | | | e in the |
| | | | | | area or |
| | | | | | WORK. |
| MICRO | Practical | Good | | | CO:1 |
| 4106 | Course: | laboratory | | | Understan |
| | Cell | practices | | | d and |





| b | biology | and cell | | apply |
|---|----------|---------------|--|-------------|
| a | and | biology | | ethical |
| H | Biochemi | Good | | considerat |
| s | stry | laboratory | | ions |
| | 5 | practices: | | related to |
| | | Laboratory | | the use of |
| | | safety. | | biomolecu |
| | | hazard from | | les in |
| | | chemicals, | | research |
| | | handling of | | and |
| | | chemicals, | | analysis |
| | | disposal of | | PO1: |
| | | chemicals | | Disciplina |
| | | and cultures, | | ry |
| | | recording of | | Knowledg |
| | | scientific | | e: |
| | | experiments | | Demonstr |
| | | • | | ate |
| | | Standardizat | | comprehe |
| | | ion of | | nsive |
| | | laboratory | | knowledg |
| | | procedures • | | e of the |
| | | Calibration | | disciplines |
| | | and | | that form |
| | | validation | | a part of a |
| | | instruments | | graduate |
| | | (pH meter, | | programm |
| | | spectrophot | | e. Execute |
| | | ometer). • | | strong |
| | | preparing/de | | theoretical |
| | | signing SOP | | and |
| | | for the | | practical |
| | | instrument | | understan |
| | | | | ding |
| | | | | generated |
| | | | | from the |
| | | | | specific |
| | | | | graduate |
| | | | | programm |
| | | | | e in the |





| | | | | area of | |
|-------|----------|--|-------------------|-------------|----|
| | | | | work. | |
| | | | | | |
| MICRO | Virology | | Replication of | CO:1 | |
| 4201 | | | viruses • | Understan | |
| | | | Mechanism of | d basic | |
| | | | virus attachment | structures | |
| | | | • Entry into host | of viruses | |
| | | | cell • Uncoating | PO1: | |
| | | | of viral genome | Disciplina | |
| | | | Transcription | ry | |
| | | | stratergies for | Knowledg | |
| | | | RNA genome & | e: | |
| | | | DNA genome • | Demonstr | |
| | | | Genome | ate | |
| | | | replication - | comprehe | |
| | | | RNA | nsive | |
| | | | replication, | knowledg | |
| | | | DNA | e of the | |
| | | | replication | disciplines | |
| | | | | that form | |
| | | | | a part of a | |
| | | | | graduate | |
| | | | | programm | |
| | | | | e. Execute | |
| | | | | strong | |
| | | | | theoretical | |
| | | | | and | |
| | | | | practical | |
| | | | | understan | |
| | | | | ding | |
| | | | | generated | |
| | | | | from the | |
| | | | | specific | |
| | | | | graduate | |
| | | | | programm | |
| | | | | e in the | |
| | | | | area of | |
| | | | | work. | Į. |
| | | | | (| |





| MICRO | Instrume | 1)Chromato | Chromatograph | CO:1 |
|-------|----------|-------------|------------------|-------------|
| 4202 | ntation | graphy Gel | y Gel filtration | Gain a |
| | | filtration | chromatography | fundament |
| | | chromatogra | Ion-exchange | al |
| | | phy • Ion- | Chromatograph | understan |
| | | exchange | y • Affinity | ding of |
| | | Chromatogr | chromatography | the |
| | | aphy • | • Gas | principles |
| | | Affinity | chromatography | of |
| | | chromatogra | • High | instrument |
| | | phy • Gas | Performance | ation, |
| | | chromatogra | Liquid | including |
| | | phy • High | Chromatograph | sensors, |
| | | Performanc | У | transducer |
| | | e Liquid | 2)Spectroscopy | s, signal |
| | | Chromatogr | | conditioni |
| | | aphy | | ng, and |
| | | 2)Spectrosc | | measurem |
| | | ору | | ent |
| | | | | techniques |
| | | | | PO1: |
| | | | | Disciplina |
| | | | | ry |
| | | | | Knowledg |
| | | | | e: |
| | | | | Demonstr |
| | | | | ate |
| | | | | comprehe |
| | | | | nsive |
| | | | | knowledg |
| | | | | e of the |
| | | | | disciplines |
| | | | | that form |
| | | | | a part of a |
| | | | | graduate |
| | | | | programm |
| | | | | e. Execute |
| | | | | strong |
| | | | | theoretical |
| | | | | and 👔 |
| | | | | practical |



| M.Sc. Ph.D. PRINCIPAL Empowered Autonomous Status E-mail : principal.tecollege@gmail.com Religious Minority Institute NAAC Reaccredited 'A+' Grade, CGPA 3.55 NAAC-SSR Cycle IV 2019 - 2024 | सिंह नेवालमा अन्नेवाल प्रत्युप्रेम्बन संसाधदनिय सहाविद्यालय, वारामती Prof. Dr. Avinash S. Lagtan | ।। सिध्दिरनेकान्तात्।। Anekant Education Society's TULJARAM CHATURCHAND COLLEGE of Arts, Science and Commerce, Baramati - 413102. Dist Pune Maharashtra India | | | | | |
|--|---|--|---|--|--|--|--|
| E-mail: principal.tccollege@gmail.com Religious Minority Institute NAAC Reaccredited 'A+' Grade, CGPA 3.55 NAAC-SSR Cycle IV 2019 - 2024 | M.Sc. Ph.D. PRINCIPAL | Empowered Autonomous Status | | | | | |
| NAAC-SSR Cycle IV 2019 - 2024 | E-mail : principal.tecollege@gmail.com | Religious Minority Institute | NAAC Reaccredited 'A+' Grade, CGPA 3.55 | | | | |
| | NAAC-SSR | Cycle IV | 2019 - 2024 | | | | |

| | | | | | | | understan ding generated from the specific graduate programm e in the area of work. | |
|--|---------------|-----------------------------|---|--|--|---------------|--|--------|
| | MICRO 4203 | Metabolis m | Concept of anaerobic respiration • Concept of Assimilatio n and Dissimilativ e metabolism | | Concept anaerobic respiration Concept Assimilation and Dissimilative metabolism | of • of | CO:1 Students should demonstra te a thorough understan ding of major metabolic pathways, including glycolysis , the citric acid cycle, oxidative phosphory lation, photosynt hesis, and various biosynthet ic pathways. | |
| | MICRO 4204 | Evolution and Ecology | Concept of ecosystem • Trophic structure of ecosystem • | | | | CO:1 Understan d how the major principles | C MORE |





| Types of | of | 2 |
|------------|------|-----------|
| ecosystems | ev | olution |
| | ar | nd |
| | ec | cology |
| | ar | nd to |
| | de | etermine |
| | th | e |
| | fu | Inctionin |
| | g | of all |
| | liit | fe on |
| | ea | arth. |
| | P | 01: |
| | | isciplina |
| | rv | |
| | K | nowledg |
| | e: | |
| | D | emonstr |
| | at | e |
| | CC | omprehe |
| | ns | sive |
| | kı | nowledg |
| | е | of the |
| | di | sciplines |
| | th | at form |
| | a | part of a |
| | gt | aduate |
| | pi | ogramm |
| | e. | Execute |
| | st | rong |
| | th | eoretical |
| | ar | nd |
| | pi | actical |
| | | nderstan |
| | di | ng |
| | ge | enerated |
| | fr | om the |
| | sr | pecific |
| | 21 | aduate |
| | | ogramm |
| | e | in the |





| | | | | | area of work. |
|---------------|---|---|--|---|---|
| MICRO 4205 | Practical Course: Biophysi cs & Virology | | | Qualitative and quantitative detection of bacteriophage • Animal virus titration by Hemagglutinati on inhibition test | CO:1 Students will apply their knowledg e regarding to qualitative and quantitativ e determinat ion of bacterioph age in laboratory |
| MICRO 4206 | Practical Course: Enzymol ogy & Microbial Metabolis m | Plant Growth Promoting Rhizobacter ia | | | CO:1 Students will able to Understan d kinetics of enzymes CO:2 Students will learn to isolate Nitrogen fixers and detect secondary metabolite s |





| M.Sc.II | MICRO | Immunol | | In vitro systems | CO:1 |
|---------|-------|---------|--|-------------------|-------------|
| Pattern | 5301 | ogy | | Quantification | Explain |
| (Sem- | | | | of cytokines | the |
| III) | | | | (ELISPOT | mechanis |
| | | | | assay), | ms of |
| | | | | functional | immune |
| | | | | assays for | response |
| | | | | phagocytes and | regulation |
| | | | | cytokines | to prevent |
| | | | | (cytotoxicity | autoimmu |
| | | | | and growth | nity and |
| | | | | assays) • In vivo | excessive |
| | | | | systems – | immune |
| | | | | Experimental | reactions |
| | | | | animals in | PO1: |
| | | | | immunology | Disciplina |
| | | | | research (Inbred | ry |
| | | | | animal strains, | Knowledg |
| | | | | Knockout mice, | e: |
| | | | | transgenic | Demonstr |
| | | | | animals, Knock | ate |
| | | | | in technology), | comprehe |
| | | | | Animal models | nsive |
| | | | | for | knowledg |
| | | | | autoimmunity | e of the |
| | | | | and AIDS. | disciplines |
| | | | | | that form |
| | | | | | a part of a |
| | | | | | graduate |
| | | | | | programm |
| | | | | | e. Execute |
| | | | | | strong |
| | | | | | theoretical |
| | | | | | and |
| | | | | | practical |
| | | | | | understan |
| | | | | | ding |
| | | | | | generated |
| | | | | | trom the |
| | | | | | specific |
| | | | | | graduate |





| | | | | programm e in the area of work. |
|---------------|----------------------------|--|---|---|
| MICRO 5302 | Molecula r Biology I | | Tools in molecular biology Activity gel assay, ChIP,, Designing probe, Detection of DNA binding protiens, DMS foot printing, DNA helicase assay, Epitope tagging, Sequence tagged sites, Filter binding assay, Protein foot printing, | CO:1 Students will demonstra te an in- depth understan ding of operons and the various regulatory mechanis ms governing gene expression in prokaryoti c and eukaryotic systems. PO1: Disciplina ry Knowledg e: Demonstr ate comprehe nsive knowledg e of the disciplines that form a part of a |





| | | | | | graduate programm e. Execute strong theoretical and practical understan ding generated from the specific graduate programm e in the area of work. |
|---|-------|------------|-------------------------------|--|---|
| | MICRO | Industrial | Pre- | | CO:1 |
| | 5303 | Waste | treatment & | | Provide |
| | | Water | Primary | | definitions |
| | | Treatmen | treatment | | for |
| | | t | process | | fundament |
| | | | (Unit | | al terms |
| | | | Processes) | | and |
| | | | Flow | | concepts |
| | | | equalization | | associated |
| | | | Screening | | with |
| | | | • | | treating |
| | | | Flocculation | | industrial |
| | | | Flotation | | wastewate |
| | | | •Granular | | r |
| | | | medium | | PO1: |
| | | | filtration | | Disciplina |
| | | | | | ry |
| | | | | | Knowledg |
| | | | | | e: |
| | | | | | Demonstr |
| | | | | | ate |
| | | | | | comprehe |
| L | | | | | nsive |





| | | | | | knowledg | |
|---|-------|----------|--|----------------|-------------|-------|
| | | | | | e of the | |
| | | | | | disciplines | |
| | | | | | that form | |
| | | | | | a part of a | |
| | | | | | graduate | |
| | | | | | programm | |
| | | | | | e. Execute | |
| | | | | | strong | |
| | | | | | theoretical | |
| | | | | | and | |
| | | | | | practical | |
| | | | | | understan | |
| | | | | | ding | |
| | | | | | generated | |
| | | | | | from the | |
| | | | | | specific | |
| | | | | | graduate | |
| | | | | | programm | |
| | | | | | e in the | |
| | | | | | area of | |
| | | | | | WORK. | |
| | MICRO | Biophysi | | Tools of | CO:1 | |
| | 5304 | cal | | Bioinformatics | Students | |
| | | Techniqu | | (FASTA, | will gain | |
| | | es | | BLAST, | the ability | |
| | | | | BLAT), | to | |
| | | | | databases | understan | |
| | | | | (GENBANK, | d | |
| | | | | PDB, OMIM) | molecular | |
| | | | | and software | structure | |
| | | | | (RASMOL, | determinat | |
| | | | | Ligand | ion | |
| | | | | Explorer). | PO1: | |
| | | | | | Disciplina | |
| | | | | | ry | |
| | | | | | Knowledg | |
| | | | | | e: | 1 |
| | | | | | Demonstr | A MAR |
| 1 | | | | | | |





| | | | 1 | r | r | | |
|--|-------|------------|--------------|---|---|------------------|-------------------|
| | | | | | | | comprehe nsive |
| | | | | | | | a of the |
| | | | | | | | e of the |
| | | | | | | | that form |
| | | | | | | | a part of a |
| | | | | | | | a part of a |
| | | | | | | | programm |
| | | | | | | | e Execute |
| | | | | | | | strong |
| | | | | | | | theoretical |
| | | | | | | | and |
| | | | | | | | practical |
| | | | | | | | understan |
| | | | | | | | ding |
| | | | | | | | generated |
| | | | | | | | from the |
| | | | | | | | specific |
| | | | | | | | graduate |
| | | | | | | | programm |
| | | | | | | | e in the |
| | | | | | | | area of |
| | | | | | | | work. |
| | | | | | | | |
| | | | | | | | |
| | MICRO | Practical | Antigen- | | | Antigen- | CO:1 |
| | 5305 | Course: | Antibody | | | Antibody | Students |
| | | Practical | Interactions | | | Interactions | should be |
| | | course | Agglutinatio | | | Agglutination | capable of |
| | | based on | n | | | techniques: | determini |
| | | Immunol | techniques: | | | Titer | ng |
| | | ogy, | Titer | | | determination of | fundament |
| | | Pharmace | determinatio | | | isoantibodies to | al |
| | | utical | n of | | | human blood | wastewate |
| | | Microbiol | 1soantibodie | | | group antigens | r |
| | | ogy and | s to human | | | | parameter |
| | | industrial | blood group | | | | S, |
| | | waste | anug ens | | | | ncluding |
| | | water | | | | | μΠ, turbidity |
| | | ueaunent | | | | | i un brunty, 👔 |





| | | - | 1 | | | · · · · · · · · · · · · · · · · · · · |
|---|-------|-----------|--------------|--|------------------|---------------------------------------|
| | | | | | | and |
| | | | | | | suspended |
| | | | | | | solids. |
| | | | | | | PO1: |
| | | | | | | Disciplina |
| | | | | | | ry |
| | | | | | | Knowledg |
| | | | | | | e: |
| | | | | | | Demonstr |
| | | | | | | ate |
| | | | | | | comprehe |
| | | | | | | nsive |
| | | | | | | knowledg |
| | | | | | | e of the |
| | | | | | | disciplines |
| | | | | | | that form |
| | | | | | | a part of a |
| | | | | | | graduate |
| | | | | | | programm |
| | | | | | | e. Execute |
| | | | | | | strong |
| | | | | | | theoretical |
| | | | | | | and |
| | | | | | | practical |
| | | | | | | understan |
| | | | | | | ding |
| | | | | | | generated |
| | | | | | | from the |
| | | | | | | specific |
| | | | | | | graduate |
| | | | | | | programm |
| | | | | | | e in the |
| | | | | | | area of |
| | | | | | | work. |
| - | MICRO | Practical | Laboratory | | Laboratory scale | CO:1 |
| | 5306 | Course: | scale | | production and | Develop |
| | _ | Practical | production | | media | the |
| | | course | and media | | optimization for | capability |
| | | based on | optimization | | exopolysacchari | to |
| | | Molecula | for | | de / | evaluate |



| NAAC COD | | 2010 2021 | | | | |
|---|---|---|--|--|--|--|
| E-mail : principal.tccollege@gmail.com | Religious Minority Institute | NAAC Reaccredited 'A+' Grade, CGPA 3.55 | | | | |
| Prof. Dr. Avinash S. Jagtap M.Sc. Ph.D. PRINCIPAL | D Em | ist. Pune. Maharashtra, India. powered Autonomous Status | | | | |
| अनेकांस एन्युवेश्वान सीसावतीय तुळजाराम चतुरचंद महाविद्यालय, बारामती | TULJARAM CHATURCHAND COLLEGE of Arts, Science and Commerce, Baramati - 413102. | | | | | |
| Fat(2) 400-map | | ।। सिध्दिरनेकान्तात्।। | | | | |

| | r Biology | exopolysacc | | bioemulsifier | and |
|-------|------------|---------------|--|---------------|-------------|
| | (I and II) | haride / | | production. | explain |
| | and | bioemulsifie | | • | the effects |
| | Microbial | r production. | | | of |
| | Technolo | | | | different |
| | gy | | | | gel |
| | | | | | concentrat |
| | | | | | ions on |
| | | | | | the |
| | | | | | effectiven |
| | | | | | ess and |
| | | | | | stability |
| | | | | | of |
| | | | | | immobiliz |
| | | | | | ed cells or |
| | | | | | enzymes |
| | | | | | in |
| | | | | | bioconver |
| | | | | | sion |
| | | | | | processes. |
| MICRO | Pharmace | Drug | | | CO:1 |
| 5401 | utical | Discovery: | | | Students |
| | Microbiol | I. | | | will |
| | ogy | Convention | | | understan |
| | | al Process | | | d drug |
| | | Bio- | | | discovery |
| | | prospecting | | | and |
| | | (Medicinal | | | developm |
| | | Chemistry) | | | ent. |
| | | – Extraction | | | PO1: |
| | | and | | | Disciplina |
| | | purification | | | ry |
| | | principles, | | | Knowledg |
| | | Purification | | | e: |
| | | and | | | Demonstr |
| | | characterizat | | | ate |
| | | ion of | | | comprehe |
| | | bioactive | | | nsive |
| | | molecules | | | knowledg |
| | | from natural | | | e of the |
| | | sources | | | disciplines |





| | | | | | | that form |
|--|-------|-----------|-------------|--|------------------|-------------|
| | | | | | | a part of a |
| | | | | | | graduate |
| | | | | | | programm |
| | | | | | | e. Execute |
| | | | | | | strong |
| | | | | | | theoretical |
| | | | | | | and |
| | | | | | | practical |
| | | | | | | understan |
| | | | | | | ding |
| | | | | | | generated |
| | | | | | | from the |
| | | | | | | specific |
| | | | | | | graduate |
| | | | | | | programm |
| | | | | | | e in the |
| | | | | | | area of |
| | | | | | | work |
| | | | | | | WOIK. |
| | MICRO | Molecula | Genetically | | Genetically | CO:1 |
| | 5402 | r Biology | modified | | modified | Students |
| | | II | Microbes. | | Microbes, plants | will |
| | | | plants and | | and animals • | acquire |
| | | | animals | | Genetically | comprehe |
| | | | Genetically | | modified | nsive |
| | | | modified | | organisms- | knowledg |
| | | | organisms- | | social and | e of |
| | | | social and | | ethical issues • | diverse |
| | | | ethical | | Applications in | gene |
| | | | issues • | | medicine – | cloning |
| | | | Application | | prevention. | techniques |
| | | | s in | | early detection | , including |
| | | | medicine – | | and cure of | gene and |
| | | | prevention. | | diseases • Gene | genome |
| | | | early | | augmentation. | library |
| | | | detection | | gene therapy | preparatio |
| | | | and cure of | | | n, cDNA |
| | | | diseases • | | | libraries. |
| | | | Gene | | | PCR |
| | | | augmentatio | | | cloning. |





| | | n, gene therapy | | | and alternative |
|-------|-----------|--------------------|--|------------------|--------------------|
| | | 1.5 | | | methodolo |
| | | | | | gies. |
| MICRO | Microbial | : Bioreactor | | : Bioreactor | CO:1 |
| 5403 | Technolo | Design | | Design | Thorough |
| | gv | Designing | | Designing of | comprehe |
| | 87 | of | | bioreactors - | nsion of |
| | | bioreactors - | | Design aspects | diverse |
| | | Design | | CSTRs: The | bioreactor |
| | | aspects | | dimensional | designs |
| | | CSTRs: The | | ratios of the | and |
| | | dimensional | | outer shell, and | variables |
| | | ratios of the | | the operational | in the |
| | | outer shell, | | aspects such as | process. |
| | | and the | | working volume | PO1: |
| | | operational | | and impellers | Disciplina |
| | | aspects such | | - | ry |
| | | as working | | | Knowledg |
| | | volume and | | | e: |
| | | impellers | | | Demonstr |
| | | | | | ate |
| | | | | | comprehe |
| | | | | | nsive |
| | | | | | knowledg |
| | | | | | e of the |
| | | | | | disciplines |
| | | | | | that form |
| | | | | | a part of a |
| | | | | | graduate |
| | | | | | programm |
| | | | | | e. Execute |
| | | | | | strong |
| | | | | | theoretical |
| | | | | | and |
| | | | | | practical |
| | | | | | understan |
| | | | | | ding |
| | | | | | generated |
| | | | | | trom the |
| | | | | | specific |





| | | | | | graduate programm e in the area of work. |
|---------------|-----------------------------|--|--|--|--|
| MICRO 5404 | Medical Microbiol ogy | Clinical Microbiolog y Epidemiolo gical and investigatio nal approaches for emerging infectious diseases: | | Epidemiological and investigational approaches for emerging infectious diseases: | CO:1 Demonstr ate proficienc y in laboratory techniques used for the identificat ion and characteri zation of microorga nisms and understan d the principles of diagnostic microbiol ogy, including specimen collection, culture, and sensitivity testing. PO1: Disciplina ry Knowledg e: Demonstr |




| | | | | | | | ate comprehe nsive knowledg e of the disciplines that form a part of a graduate programm e. Execute strong theoretical and practical understan ding generated from the specific graduate programm e in the area of work. |
|--|--|--|--|--|--|--|--|
|--|--|--|--|--|--|--|--|





STATISTICS

| Progra | Cours e | Course | Topic in the Syllabus Which has relevance to developmental needs | | | PO's, PSO's and CO's | |
|-----------------------------|--------------|---------------------------------------|---|------------------------------------|------------------------------------|------------------------------|---|
| mme | Code | litte | Local | National | Regional | Global | |
| B.Sc. Statisti cs, UG | STAT 1201 | Descripti ve Statistics – II | Demo graph y, Life Table | Demogra phy, Life Table | Demogra phy, Life Table | Demography, 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. Statisti cs, UG | STAT 2301 | Statistical Techniqu es – I | Index Numb er, Time Series | Index Number, Time Series | Index Number, Time Series | Index Number, Time Series | CO1:Applications of index numbers and time series |



| of. Dr. Avin M.Sc. PRINC MAAC-S | ash S. Ja Ph.D. CIPAL ccollege@gr | nail.com R | ।। सिध्दिरनेकान्तात्।। Anekant Education Society's TULJARAM CHATURCHAND COLLEG of Arts, Science and Commerce, Baramati - 413102. Dist. Pune. Maharashtra, India. Empowered Autonomous Status Religious Minority Institute NAAC Reaccredited 'A+' Grade , CGPA 3.55 Cycle IV 2019 - 2024 | | | | | | |
|--|--|--|---|--|--|--------------------------------------|---|--|--|
| B.Sc. Statisti cs, UG | STAT 2401 | Statistical Techniqu es – II | Regre ssion, SPC and Queui ng Model | Regressio n, SPC and Queuing Model | Regressio n, SPC and Queuing Model | Regression, SPC and Queuing Model | CO1: Learn Meaning and purpose of SPC. CO2: Construct Control charts for Attributes, variables. CO3:Revise control limits whenever necessary. CO4: Apply M/M/1:FIFO Queuing model. | | |
| B.Sc. Statisti cs, UG | STAT 2402 | Continuo us Probabilit y Distributi on II | Testin g of Hypot hesis | Testing of Hypothes is | Testing of Hypothes is | Testing of Hypothesis | CO1:Use appropriate tests in real life situations | | |
| B.Sc. Statisti cs, UG | ST 332 | Theory of Estimatio n | Estim ation and its proper ties | Estimatio n and its properties | Estimatio n and its properties | Estimation and its properties | | | |
| B.Sc. Statisti cs, UG | ST 333 | Sampling Methods | Sampl ing Metho ds | Sampling Methods | Sampling Methods | Sampling Methods | | | |
| B.Sc. Statisti cs, UG | ST 334 | Design of Experime nts | Variou s experi menta 1 design s | Various experime ntal designs | Various experime ntal designs | Various experimental designs | | | |
| B.Sc. Statisti cs, UG | ST 336 | Introducti on to Regressio n Analysis | Variou s regres sion model s | Various regressio n models | Various regressio n models | Various regression models | CATURCA A | | |



| B.Sc. Statisti cs, UG | ST 342 | Testing of Hypothes is | Param etric and Nonpa rametr ic test | Parametri c and Nonpara metric test | Parametri c and Nonpara metric test | Parametric and Nonparametric test | |
|-----------------------------|-----------|-----------------------------------|---|--|--|--|---------|
| B.Sc. Statisti cs, UG | ST 343 | Statistical Quality Control | Statist ical Qualit y Contr ol and Reliab ility | Statistical Quality Control and Reliabilit y | Statistical Quality Control and Reliabilit y | Statistical Quality Control and Reliability | |
| B.Sc. Statisti cs, UG | ST 344 | Operation s Research | LPP, TP, AP, CPM, PERT, Game Theor y | LPP, TP, AP, CPM, PERT, Game Theory | LPP, TP, AP, CPM, PERT, Game Theory | LPP, TP, AP, CPM, PERT, Game Theory | |
| B.Sc. Statisti cs, UG | ST 341 | Actuarial Statistics | Insura nce Busin ess, Feasib ility of Insura nce Busin ess, Surviv al Distri bution and Model s for Life Tables | Insurance Business, Feasibilit y of Insurance Business, Survival Distributi on and Models for Life Tables | Insurance Business, Feasibilit y of Insurance Business, Survival Distributi on and Models for Life Tables | Insurance Business, Feasibility of Insurance Business, Survival Distribution and Models for Life Tables | BARNMAT |

| Image: Constraint of the state of the | | | | FULJ of cligious M Cyc | Arts, Sci Arts, Inst Minority Inst le IV | Anekan M CHA ence and Dist. Pu Empowe itute NA | ।। सिध्दिरनेकान्तात्।। at Education Socie ATURCHAN Commerce, Bar une. Maharashtra, India ared Autonomous St AC Reaccredited 'A+' C 2019 - 2024 | ty's ND COLLEGE ramati - 413102. a. atus Grade, CGPA 3.55 |
|---|-----------------------------|---------------|------------------------------|---|--|---|---|---|
| | M.Sc. Statisti cs, PG | STAT- 4104 | Sampling Theory | Variou s sampli ng Techn iques, and popul ation param eter estima tion | Various sampling Techniqu es, and populatio n parameter estimatio n | Various sampling Techniqu es, and populatio n parameter estimatio n | Various sampling Techniques, and population parameter estimation | CO1:Identify and recognize the appropriate sampling Techniques in various situations. PO1: Disciplinary Knowledge |
| | M.Sc. Statisti cs, PG | STAT- 4303 | Multivari ate Analysis | PCA, Cluste r Analy sis, Discri minan t Analy sis, Canon ical Correl ation | PCA, Cluster Analysis, Discrimin ant Analysis, Canonica 1 Correlati on, Factor Analysis | PCA, Cluster Analysis, Discrimin ant Analysis, Canonica 1 Correlati on | PCA, Cluster Analysis, Discriminant Analysis, Canonical Correlation | CO1:Apply suitable tools for exploratory data analysis, dimension reduction, and classification to formulate and solve real-life problems |





| M.Sc. Statist cs, PG | STAT- 4204 | Regressio n Analysis | Variou s regres sion model s and model adequ acy, multic olline arity | Various regressio n models and model adequacy, multicolli nearity | Various regressio n models and model adequacy, Multicolli nearity | Various regression models and model adequacy, Multicollinearity | CO1:Able to apply various regression models in real life problems. PO1: Trans-disciplinary knowledge: Create new conceptual, theoretical and methodological understanding that integrates and transcends beyond discipline- specific approaches |
|----------------------------|---------------|----------------------------|--|--|--|--|---|
| | | | | | | | specific approaches to address a common problem. |



| rof. Dr. Avir M.Sc PRIN hail : principal. | Address Addres | agtap mail.com F | FULJ of Religious I Cyc | Arts, Sci Minority Inst | Anekar M CHA ience and Dist. P Empowe titute NA | ।। सिध्दिरनेकान्तात्।। nt Education Socie ATURCHA I Commerce, Ban June. Maharashtra, Indi ered Autonomous St AC Reaccredited 'A+' 2019 - 2024 | ety's ND COLLEGE ramati - 413102. ia. tatus Grade, CGPA 3.55 |
|--|---|--|---|---|---|--|---|
| M.Sc. Statisti cs, PG | STAT 5302 | Design and Analysis of Experime nts | Variou s experi menta l design , RSM, CCD, Box- Behnk en design | Various experime ntal design, RSM, CCD, Box- Behnken design | Various experime ntal design, RSM, CCD, Box- Behnken design | Various experimental 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. Statisti cs, PG | STAT- 5303 | Time Series Analysis | ARM A, ARIM A, SARI MA, ARC H and GAR CH | ARMA, ARIMA, SARIMA , ARCH and GARCH | ARMA, ARIMA, SARIMA , ARCH and GARCH | ARMA, ARIMA, SARIMA, ARCH and GARCH | CO1:Students will be able to fit and analyze the appropriate time series model for time series data |



| M.Sc. Statisti cs, PG | STAT- 5304(A) | Data Mining | SVM, KNN, Decisi on Tree, Rando m Forest , Text Minin g | SVM, KNN, Decision Tree, Random Forest, Text Mining | SVM, KNN, Decision Tree, Random Forest, Text Mining | SVM, KNN, Decision Tree, Random Forest, Text Mining | 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. Statisti cs, PG | STAT- 5304(B) | Design and Analysis of Clinical Trials | Clinic al Trials, Meta analys is | 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 |



| Pro E-mail | f. Dr. Avin M.Sc. PRINC MAAC-S | Advertise المعادمة المعاممة المعاممعماممامة المماممامممماممامماممماممامماممماممام | ngtap mail.com R | Cyc | Arts, Sci Minority Inst | Anekan M CHA ence and Dist. P Empowe itute NA | ।। सिध्दिरनेकान्तात्।। at Education Socie ATURCHA I Commerce, Ban une. Maharashtra, Indi ered Autonomous St AC Reaccredited 'A+' 2019 - 2024 | ety's ND COLLEGE ramati - 413102. ia. tatus Grade, CGPA 3.55 | |
|---------------|---|---|-----------------------------------|--|--|--|---|--|--|
| | M.Sc. Statisti cs, PG | STAT- 5404(B) | Reliabilit y Theory | Coher ent struct ures and its Reliab ility | Coherent structures and its Reliabilit y | Coherent structures and its Reliabilit y | Coherent structures and its Reliability | CO1:The students will be able to get idea of important lifetime distributions such as for exponential, Weibull, gamma and lognormal distributions | |
| | M.Sc. Statisti cs, PG | STAT- 5402 | Statistical Process Control | Variou s Contr ol Charts | 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. Statisti cs, PG | STAT- 5403 | Survival Analysis | Types of Censo ring, Life time distrib utions, Test for Expon etialit | 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 Censoring, Life time distributions, Test for Exponetiality | CO1:Student should be able to compare survival functions of two or more populations | |



| Prof. Dr. Avinash S. M.Sc. Ph.D. PRINCIPAL E-mail : principal.tecollege@ | Jagtap | TULJ of Religious M Cyc | Arts, Sci Minority Inst | Anekan M CHA ience and Dist. P Empowe titute NA | ।। सिध्दिरनेकान्तात्।। nt Education Soc ATURCHA I Commerce, Ba une. Maharashtra, In ered Autonomous AC Reaccredited 'A+ 2019 - 2024 | iety's ND COLLEGE aramati - 413102. dia. Status ' Grade , CGPA 3.55 |
|---|---------|---|--|--|--|--|
| M.Sc. Statisti cs, PG STAT 5406 | Project | Use of Statist ical Tools in real life situati ons | Use of statistical Tools in real life situations | Use of statistical Tools in real life situations | Use of statistical Tools in real life situations | 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 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 about intellectual property rights and issues of plagiarism. |





ZOOLOGY

| Progra | Cours | Course | Topic in | the syllabus | which has | relevance | POs. PSO's |
|------------------|--------------|------------------------|----------|---|------------|---|---|
| mme | e | Title | to | the develop | mental nee | ds | & COs |
| | Code | | Local | National | Regional | Global | |
| B.Sc. Zoology | | Animal | | D | | D · · · 1 | PO1. Disciplinary knowledge PSO1.Scient |
| | ZOO: 1101 | systematic s | - | Principles of animal classificat ion | - | Principles of animal classificat ion | the knowledge |
| | | a diversity-I | | | | | CO1.Acquir es the skills to classify various invertebrate taxa. |
| | ZOO: 1103 | Zoology Practical I | - | Principles of animal classificat ion | - | Principles of animal classificat ion | PO1. Disciplinary knowledge PSO1.Scient ific knowledge CO2.Acquir es the skills to classify various invertebrate taxa. |





| ZOO: 1201 | Animal systematic s & diversity- II | - | Principles of animal classificat ion | - | Principles of animal classificat ion | PO1. Disciplinary knowledge PSO1.Scient ific knowledge CO2.Acquir es the skills to classify various vertebrate taxa. |
|--------------|---|--------------------------------------|--|--------------------------------------|--|---|
| ZOO: 2301 | Animal systematic s & diversity- III | - | General character s and classificat ion upto class of, Arthropo da, Mollusca and Echinode rmata | - | General character s and classificat ion upto class of, Arthropo da, Mollusca and Echinode rmata | PO1. Disciplinary knowledge PSO7.Scient ific knowledge CO1.Acquir es the skills to classify various vertebrate taxa. |
| ZOO: 2302 | Applied Zoology-I | Fisheries and Dairy Science | Fisheries and Dairy Science | Fisheries and Dairy Science | Fisheries and Dairy Science | PO5. Trans disciplinary knowledge. PSO10. Communicat ion skills. CO4. Entrepreneur ship. |



| सिद्धियेवेवन्सम् अवसंग प्रवायेकव संसाधवीय तुळजाराम चतुरचंद महाविद्यालय, बारामती | An TULJARAM C of Arts, Science | ।। सिध्दिरनेकान्तात्।। nekant Education Society's CHATURCHAND COLLEGE and Commerce, Baramati - 413102. |
|--|--------------------------------------|---|
| Prof. Dr. Avinash S. Jagtap M.Sc. Ph.D. PRINCIPAL | D Em | powered Autonomous Status |
| E-mail : principal.tccollege@gmail.com | Religious Minority Institute | NAAC Reaccredited 'A+' Grade, CGPA 3.55 |
| NAAC-SSR | Cycle IV | 2019 - 2024 |

| | ZOO: 2401 | Animal systematic s & diversity- IV | - | _ | - | General character s and classificat ion of class Reptilia, Aves and Mammali a | PO1. Disciplinary knowledge PSO7.Scient ific knowledge CO1.Acquir es the skills to classify various vertebrate taxa. |
|------------------|--------------|---|--|--|--|--|---|
| | 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 | PO6. personal & professional competence PSO10. Communicat ion skills. CO4. Entrepreneur |
| | ZY- 334 | Environm ental Biology & Toxicolog y | Environ mental Pollution Wildlife Manage ment | Environm ental Pollution Wildlife Managem ent | Environ mental Pollution Wildlife Manage ment | Environm ental Pollution Wildlife Managem ent | ship. - |
| M.Sc. Zoology | ZOO:4 104 | Skills in Scientific Communi cation & Writing and Biostatisti cs | Research project proposal writing | Research project proposal writing | _ | - | PO4. Research- related skills and Scientific temper PSO4. Research |





| | | | | | | related skills and |
|------|----------|----------|------------------------------|------------------|--------------|-----------------------|
| | | | | | | scientific |
| | | | | | | temper |
| | | | | | | CO7. Write |
| | | | | | | effective |
| | | | | | | research |
| | | | | | | proposals |
| | | | | | | that secure |
| | | | | | | funding. |
| | | | | | | PO6 Demonal and |
| | | | | | | personal and |
| | | | | | | competence |
| | | | | | | PO8Environ |
| | | | | | | ment and |
| | | | | | | Sustainabilit |
| | | | | | | у. |
| | | | | | | PSO10. |
| | | | | | | Communicat |
| | | | | | | ion skills. |
| | | Prawn | X 7 · 1 | | XX7'1 1 X 'C | PSO7.Conse |
| ZOO: | Economic | culture, | Vermicul ture industry | Fish Industry | Wild Life | rvation |
| 5304 | Zoology | Culture, | | | ion | Awareness |
| | | Fish | | | | CO4. |
| | | Culture | | | | Entrepreneur |
| | | | | | | ship. |
| | | | | | | CO5. Contributos |
| | | | | | | the |
| | | | | | | knowledge |
| | | | | | | for |
| | | | | | | conservation |
| | | | | | | and |
| | | | | | | sustainable |
| | | | | | | use of |
| | | | | | | Biodiversity |





DAIRY TECHNOLOGY

| Program | Cour | Course Title | Topic | Topic in the syllabus which has relevance | | | POs, PSO's |
|----------|-------|---------------------|-------|---|-----------|--------|--------------|
| me | se | | | to the develo | pmental 1 | needs | & COs |
| | Code | | Loc | National | Regio | Global | |
| | | | al | | nal | | |
| | BDT | Dairy | | Dairy | | | CO1:They |
| | - 101 | Developmen | | development | | | will learn |
| | | t | | , dairy | | | about dairy |
| | | | | cooperatives | | | cooperatives |
| | | | | and | | | and dairy |
| | | | | incentives | | | development |
| | | | | | | | in India |
| | | | | | | | PO1: They |
| | | | | | | | will be able |
| | | | | | | | to |
| | | | | | | | understand |
| | | | | | | | dairy |
| | | | | | | | and doiry |
| B Voc | | | | | | | development |
| D. VOC. | | | | | | | in India |
| Technolo | | | | | | | in maia |
| gy | BDT | Dairy Farm | | Milking | | | PO1:They |
| 0. | - 102 | Management | | techniques, | | | will know |
| | | U | | feed | | | the need and |
| | | | | management | | | importance |
| | | | | , dairy farm | | | of dairy |
| | | | | management | | | farming and |
| | | | | | | | dairy farm |
| | | | | | | | management |
| | | | | | | | CO1: They |
| | | | | | | | will know |
| | | | | | | | about |
| | | | | | | | milking |
| | | | | | | | techniques |
| | | | | | | | of dairy |
| | | | | | | | cattle's. |
| | | | | | | | POI: They |
| | | | | | | | to |





| | | | | understand |
|-------|------------|--|--------------|---------------|
| | | | | farming |
| | | | | laining. |
| BDT | Dairv | | Protein. | CO1: They |
| - 103 | Chemistry | | carbohvdrat | will |
| | | | es. | understand |
| | | | vitamins. | the |
| | | | minerals. | chemistry of |
| | | | lipids | milk and its |
| | | | I ···· | products. |
| | | | | CO2: They |
| | | | | will |
| | | | | understand |
| | | | | the |
| | | | | composition |
| | | | | , role of |
| | | | | each |
| | | | | component |
| | | | | and their |
| | | | | interactions. |
| | | | | PO1:They |
| | | | | will |
| | | | | understand |
| | | | | the |
| | | | | chemistry |
| | | | | involved in |
| | | | | dairy |
| | | | | industry |
| BDT | Dairy Farm | | Identificati | CO1: They |
| 1.1 | Management | | on of | will study |
| | | | different | common |
| | | | breeds of | practices |
| | | | cattle, | carried out |
| | | | CMP, | at a dairy |
| | | | housing of | tarm. |
| | | | animals and | PO1: They |
| | | | maintenanc | will be able |
| | | | e of animals | to identify |
| | | | | the cattle |
| | | | | breeds of |





| | | | | | dairy |
|-------|--------------|--|---|-------------|----------------|
| | | | | | animals |
| BDT | Dairy | | | Study of | CO1: They |
| 1.2 | Chemistry | | | basic | will learn |
| | | | | analysis | basic |
| | | | | methods | analysis |
| | | | | used in | methods |
| | | | | dairy | used in dairy |
| | | | | industry | industry. |
| | | | | 5 | PO1: They |
| | | | | | will be able |
| | | | | | to |
| | | | | | understand |
| | | | | | and perform |
| | | | | | the analysis |
| | | | | | and testing |
| | | | | | of milk |
| | | | | | samples in |
| | | | | | dairy |
| | | | | | industries. |
| BDT | Soft Skill | | | Resume | CO1: They |
| 1.3 | Developmen | | | writing, | will know |
| | t | | | group | communicat |
| | | | | discussion | ion skill of |
| | | | | | English |
| | | | | | language in |
| | | | | | corporate |
| | | | | | world. |
| | | | | | PO1: They |
| | | | | | will acquire |
| | | | | | communicat |
| | | | | | ion skill of |
| | | | | | English |
| | | | | | language in |
| | | | | | corporate |
| DEE | | | | | world. |
| BDT | Food | | | Food | CO1:They |
| - 201 | preservation | | | preservatio | will study |
| | Technology | | | n methods | methods of |
| | | | | | preservation |
| | | | 1 | | ot toods and Y |



| e, Baramati - 413102. ra, India. | | | | | | |
|---|--|--|--|--|--|--|
| e, Baramati - 413102. | | | | | | |
| of Arts, Science and Commerce, Baramati - 413102. | | | | | | |
| HAND COLLEGE | | | | | | |
| Anekant Education Society's | | | | | | |
| 1 | | | | | | |
| | | | | | | |

| | | | | | study the |
|-------|-------------|---|------------|------------|--------------|
| | | | | | natural and |
| | | | | | chemical |
| | | | | | preservative |
| | | | | | S |
| | | | | | PO1: They |
| | | | | | will learn |
| | | | | | about study |
| | | | | | of food |
| | | | | | preservation |
| BDT | Milk | | Processing | | CO1:They |
| - 202 | processing | | of milk | | will know |
| | technology | | | | the |
| | | | | | processing |
| | | | | | and |
| | | | | | packaging |
| | | | | | of milk and |
| | | | | | machineries |
| | | | | | for milk and |
| | | | | | Milk |
| | | | | | products. |
| | | | | | PO1: They |
| | | | | | will learn |
| | | | | | about |
| | | | | | detailed |
| | | | | | processing |
| | | | | | of milk. |
| BDT | Dairy | | | Microbial | CO1: They |
| - 203 | microbiolog | | | growth and | will study |
| | У | | | microbial | the role of |
| | | | | spoilage | microbes in |
| | | | | | fermentation |
| | | | | | , spoilage |
| | | | | | and food |
| | | | | | borne |
| | | | | | diseases. |
| | | | | | PO1: They |
| | | | | | will Know |
| | | | | | the |
| | | | | | important |
| | | 1 | | 1 | genera of |





| | | | | | microorgani |
|-------|--------------|------|---|-------------|--------------|
| | | | | | sms |
| | | | | | associated |
| | | | | | with dairy |
| | | | | | |
| BDT | Food | | | Methods of | CO1:They |
| -2.1 | preservation | | | food | will study |
| | Technology | | | preservatio | different |
| | | | | n | methods of |
| | | | | | preservation |
| | | | | | and study |
| | | | | | the natural |
| | | | | | and |
| | | | | | chemical |
| | | | | | preservative |
| | | | | | S |
| | | | | | PO1: They |
| | | | | | will study |
| | | | | | methods of |
| | | | | | preservation |
| | | | | | of foods |
| DDT | D ' | | | D:00 / | |
| BDI | Dairy | | | Different | COI: They |
| - 2.2 | microbiolog | | | methods of | will study |
| | У | | | microbial | about the |
| | | | | analysis | preparation |
| | | | | | of media, |
| | | | | | culture, |
| | | | | | identify |
| | | | | | |
| | | | | | CO2: There |
| | | | | | will loom |
| | | | | | will leaffi |
| | | | | | methods of |
| | | | | | microbial |
| | | | | | analysis |
| | | | | | PO1·They |
| | | | | | will know |
| | | | | | basic |
| | | | | | microbiolog |
| | 1 | | 1 | 1 | merobiolog |





| | | | | y laboratory practices and equipment |
|--------------|----------------------------------|--|---|---|
| BDT - 2.3 | Computer Application | | Study of computer machine and operating system, HTML, MS-Office, Mails, | CO1:They will study the computer machine and operating system, different computer |
| | | | Google Docs, | programmes PO1: They will learn the computer machine and operating system PO2: They will be able to run the daviae and |
| | | | | device and different computer applications |
| BDT - 301 | Dairy processing equipment | Study of dairy processing equipment | | CO1:They will know about maintenance of Equipments and understand the design equipments PO1: They will learn |



| Fald22-basi-may | | ।। सिध्दिरनेकान्तात्।। | | | | |
|---|---|---|--|--|--|--|
| | Anekant Education Society's | | | | | |
| अवेकांत एजवेक्वल जीसाम्प्रदेश | TULJARAM CHATURCHAND COLLEGE | | | | | |
| तुळ्ळालय. बारामती महाविद्यालय. बारामती | of Arts, Science and Commerce, Baramati - 413102. | | | | | |
| Prof. Dr. Avinash S. Jagtap | Dist. Pune. Maharashtra, India. | | | | | |
| M.Sc. Ph.D. PRINCIPAL | Em | powered Autonomous Status | | | | |
| E-mail : principal.tccollege@gmail.com | Religious Minority Institute | NAAC Reaccredited 'A+' Grade, CGPA 3.55 | | | | |
| NAAC-SSR | Cycle IV | 2019-2024 | | | | |

| | | | | about Design, working and maintenance of Equipments. |
|--------------|-------------------------------|--|---|---|
| BDT - 302 | Fermented Milk Products | Concept of fermentation , study of different fermented milk products | | CO1:learn basics of fermentation s, starter cultures, and Fermentor and To learn making process of various fermented products PO1: They will learn about fermentation and range of products made from fermentation |
| BDT - 303 | Nutrition science | | Role of nutrients, balance diet, BMR | CO1:They will understand 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 |
| BDT | Dairy | | | Study of | CO1:They |
| - 3.1 | processing | | | milk | will know |
| | equipment | | | tankers, | about |
| | | | | cream | maintenance |
| | | | | separator, | of |
| | | | | homogeniz | Equipments |
| | | | | er, and | and |
| | | | | other dairy | understand |
| | | | | 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 | | | will |
| | Products | of different | | | understand |
| | | types of | | | technology |
| | | fermented | | | behind |
| | | milk | | | preparation |
| | | products | | | of fermented |
| | | | | | milk |
| | | | | | products |
| | | | | | PO1: They |
| | | | 1 | | will learn |





| | | | | about fermentation and range of products made from fermentation |
|--------------|---|---|--|--|
| 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 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 dairy | CO1:They will study the different utilities used |





| | | | | industry like refrigerator, cold storage, etc | 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 indigenou milk products | of of s | | 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 hygiene, CIP systems PO1: They will understand Food safety. |





| | | | | hygiene and |
|-------|------------|-----------------|-------------|---------------|
| | | | | sanitation |
| BDT | Quality | | Study of | CO1:They |
| - 501 | Assurance | | quality and | will |
| | and Waste | | importance | understand |
| | Management | | of quality, | the |
| | C | | Sensory | importance |
| | | | evaluation, | of quality in |
| | | | waste | food |
| | | | managemen | production |
| | | | t | and will |
| | | | | learn |
| | | | | various |
| | | | | methods of |
| | | | | analysis in |
| | | | | dairy |
| | | | | industry |
| | | | | PO1: They |
| | | | | will |
| | | | | understand |
| | | | | the |
| | | | | importance |
| | | | | of quality in |
| | | | | food |
| | | | | production |
| | | | | |
| BDT | Fat Rich | Study of fat | | CO1: They |
| - 502 | Milk | rich products | | will learn |
| | Products | like ghee, | | different |
| | | butter, cream | | types of fat |
| | | butter oil, etc | | rich |
| | | | | products |
| | | | | made from |
| | | | | milk. |
| | | | | POI: They |
| | | | | W1ll |
| | | | | understand |
| | | | | the range of |
| | | | | products |
| | | | | made from |
| | | | | milk fat. |





| BE - 5 | DT 503 | Dairy plant Management | | | Production managemen t, plant operations, manpower planning, etc | CO1:They will learn key skills in managing the efficiency and man power of the dairy plant. PO1: They will learn basics of management |
|-----------|-----------|---|---|-------------------------|--|---|
| BE - 5 | DT 5.1 | Quality Assurance and Waste Management | | | Study of COD and BOD, microbiolo gical analysis of air and water, acidity of milk | CO1:They will learn different analysis methods used for analysis of different CO1:quality parameters of food PO1: They will understand the importance of quality in food production |
| BD - 5 | DT 5.2 | Fat Rich Milk Products | Study making process different rich produ | of of fat icts | | CO1:They will learn the making procedure and principle of different fat |



| III सिंध्दिरनेकान्तात् II Anekant Education Society's TULJARAM CHATURCHAND COLLEGE of Arts, Science and Commerce, Baramati - 413102. Dist. Pune. Maharashtra, India. E-mail : principal.tecollege@gmail.com | NAAC-SSR | Cycle IV | 2019 - 2024 | | | | | |
|---|--|--|--|--|--|--|--|--|
| и Кибадинания и Киб | E-mail : principal.tccollege@gmail.com | Religious Minority Institute | NAAC Reaccredited 'A+' Grade, CGPA 3.55 | | | | | |
| ा। सिध्दिरनेकान्तात्।। Anekant Education Society's TULJARAM CHATURCHAND COLLEGE of Arts, Science and Commerce, Baramati - 413102. | Prof. Dr. Avinash S. Jagtap M.Sc. Ph.D. PRINCIPAL | Em | vist. Pune. Maharashtra, India. powered Autonomous Status | | | | | |
| | स्विद्धार्थस्य अविकांग प्रत्युक्षेत्रज्ञ सीमास्वरीक तुळजाराम चतुरचंव महाविद्यालय, बारामती | तnekant Education Society's TULJARAM CHATURCHAND COLLEGE of Arts, Science and Commerce, Baramati - 413102. | | | | | | |

| | | | | rich milk |
|-------|--------------|---------------|--|----------------|
| | | | | products. |
| | | | | PO1: They |
| | | | | will |
| | | | | understand |
| | | | | the range of |
| | | | | products |
| | | | | made from |
| | | | | milk fat |
| BDT | Project | project work | | CO1:They |
| - 5.3 | | related to | | will learn to |
| | | design and | | design and |
| | | development | | develop |
| | | of | | innovative |
| | | innovative | | food |
| | | food | | products and |
| | | product, its | | work on its |
| | | quality | | packaging, |
| | | evaluation, | | labeling, |
| | | packaging, | | shelf life, |
| | | labeling and | | etc |
| | | shelf life | | PO1: They |
| | | testing | | will learn to |
| | | | | design and |
| | | | | develop |
| | | | | innovative |
| | | | | food |
| | | | | product, its |
| | | | | quality |
| | | | | evaluation, |
| | | | | packaging, |
| | | | | labeling and |
| | | | | shelf life |
| | | | | testing |
| BDT | Entrepreneur | Entrepreneur | | CO1:They |
| - 601 | ship | ship and | | will |
| | Developmen | Market | | understand |
| | t | Survey and | | the concept |
| | | Opportunity | | of |
| | | Identificatio | | entrepreneur (|
| | | n | | ship and |





| | | | | learn key |
|-------|-------------|--|---------------|---------------|
| | | | | skills for |
| | | | | being a |
| | | | | successful |
| | | | | entrepreneur |
| | | | | PO1: They |
| | | | | will learn |
| | | | | key skills |
| | | | | for being a |
| | | | | successful |
| | | | | entrepreneur |
| BDT | Dairy Plant | | Production | CO1:They |
| - 602 | Management | | managemen | will learn |
| | | | t, plant | key skills in |
| | | | operations, | managing |
| | | | manpower | the |
| | | | planning, | efficiency |
| | | | etc | and man |
| | | | | power of the |
| | | | | dairy plant. |
| | | | | PO1: They |
| | | | | will learn |
| | | | | basics of |
| | | | | management |
| BDT | Packaging | | Study of | CO1: They |
| - 603 | technology | | identificatio | will learn |
| | | | n and | about types |
| | | | testing of | of |
| | | | different | packaging |
| | | | packaging | materials |
| | | | materials | used in food |
| | | | | and dairy |
| | | | | industry. |
| | | | | CO2: They |
| | | | | will learn |
| | | | | the |
| | | | | packaging |
| | | | | process in |
| | | | | dairy and |
| | | | | tood |
| | | | | industry 8 |



| सिद्धिरनेवन-सात् | ।। सिध्दिरनेकान्तात्।। | | | | | | | | |
|---|---|---|--|--|--|--|--|--|--|
| | An | Anekant Education Society's | | | | | | | |
| Matata (25)glasses sitemethy | TULJARAM CHATURCHAND COLI | | | | | | | | |
| तुळजाराम चतुरचद महाविद्यालय, बारामती | of Arts, Science and Commerce, Baramati - 413102. | | | | | | | | |
| Prof. Dr. Avinash S. Jagtap | Dist. Pune. Maharashtra, India. | | | | | | | | |
| PRINCIPAL | Em | powered Autonomous Status | | | | | | | |
| E-mail : principal.tccollege@gmail.com | Religious Minority Institute | NAAC Reaccredited 'A+' Grade, CGPA 3.55 | | | | | | | |
| NAAC-SSR | Cycle IV | 2019 - 2024 | | | | | | | |

| | | | | PO1: They |
|------|-------------|----------|-------------|----------------|
| | | | | will learn |
| | | | | about the |
| | | | | packaging |
| | | | | technology |
| | | | | of dairy |
| | | | | products. |
| BDT- | In – Plant | In-plant | | CO1: They |
| 6.1 | Training | training | | will learn to |
| | | | | prepare and |
| | | | | study |
| | | | | different |
| | | | | types of |
| | | | | milks and |
| | | | | it's |
| | | | | processing. |
| | | | | PO1: They |
| | | | | will learn |
| | | | | about |
| | | | | development |
| | | | | and |
| | | | | preparation |
| | | | | of different |
| | | | | types of milks |
| RDT | Dairy | | Manufactur | CO1: They |
| 62 | product | | ing process | will |
| 0.2 | development | | of | understand |
| | development | | condensed | the |
| | | | milk SMP | production |
| | | | WMP. Ice- | of dried |
| | | | cream and | milk. |
| | | | other dairy | CO2: They |
| | | | products. | will |
| | | | T | understand |
| | | | | the |
| | | | | difference |
| | | | | between ice- |
| | | | | cream and |
| | | | | frozen dairy |
| | | | | desert. |





| | | | | PO1: They |
|------|------------|--|---------------|--------------|
| | | | | will learn |
| | | | | about |
| | | | | development |
| | | | | and |
| | | | | preparation |
| | | | | of different |
| | | | | types of |
| | | | | milks. |
| BDT- | Packaging | | Study of | CO1: They |
| 6.3 | technology | | identificatio | will learn |
| | | | n and | about types |
| | | | testing of | of |
| | | | different | packaging |
| | | | packaging | materials |
| | | | materials | used in food |
| | | | | 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. |





FOOD PROCESSING & POST HARVEST TECHNOLOGY

| Prog | Co | Cour | Topic in the syllabus which has | | | POs, PSO's & COs | |
|-------|----|--------|--------------------------------------|---------|--------|------------------|-----------------------------------|
| ram | ur | se | relevance to the developmental needs | | | | |
| me | se | Title | Local | Natio | Regio | Global | |
| | Co | | | nal | nal | | |
| | de | | | | | | |
| | | | | | | | |
| B.Vo | FP | Princi | Dehy | Canni | Dehy | Canning, | CO1: Students will have a |
| с. | -1 | ples | dratio | ng, | dratio | Pasteurizatio | thorough understanding of |
| Food | | of | n, | Pasteu | n, | n,Standardiz | various food processing |
| Proc | | Food | Ferme | rizatio | Ferme | ation, | techniques. The students will |
| essin | | Prese | ntatio | n, | ntatio | Freezing, | know the importance of |
| g & | | rvatio | n | Standa | n | Chilling | various preservation |
| Post | | n | | rdizati | | | techniques. |
| Harv | | | | on, | | | PO1: Understand the basic |
| est | | | | Freezi | | | concepts, fundamental |
| Tech | | | | ng, | | | principles and experimental |
| nolo | | | | Chillin | | | findings and the scientific the |
| gy | | | | g | | | ories related to food |
| (UG) | | | | | | | 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. |





| -4 ion s and al s and BMR CO1: Utilize knowled Scien Sports Nutriti Sports | lge from |
|---|-----------|
| Scien Sports Nutriti Sports the physical and bi | ological |
| | OIO2ICar |
| ce onal Balan sciences as a ba | sis for |
| Balan Policy ce diet understanding the role | of food |
| ce diet | lth and |
| disease processes | and and |
| PO4: Analytical Re | easoning |
| and Problem Solvi | ng- To |
| enable the students w | ith good |
| scientific and eng | ineering |
| knowledge so | as to |
| comprehend, design | n, and |
| create food produc | ets and |
| devices for the food | industry |
| and provide solutions | for the |
| challenges in the food | industry |
| as well as in agricultur | e. |
| PO1:-Disciplinary | |
| Knowledge - Underst | tand the |
| basic concepts, fund | lamental |
| principles and expe | rimental |
| findings and the scien | tific the |
| ories related to | food |
| technology, food scie | nce and |
| Food technology | & |
| engineering and its oth | er fields |
| related to the program. | |
| | |
| CO2: Provide | nutrition |
| counselling and educ | ation to |
| individuals, groups | , and |
| communities through | out the |
| lifespan using a var | riety of |
| communication strateg | gies. |
| | mina |
| POI2: Lifelong Lea | rning: - |
| Propose novel la explaining the scienti | tic data |
| facts and figures re | lated to |





| | Science and technology. | |
|--|--|--|
| | CO3: Evaluate nutrition information based on scientific reasoning for clinical community, and food service application. | on fic al, ce |
| | PO4: Analytical Reasonin and Problem Solving- T enable the students with good scientific and engineerin knowledge so as comprehend, design, an create food products an devices for the food indust and provide solutions for the challenges in the food indust | ng Fo od ng to nd nd ry he ry |





| FP | Proce | Dryin | Qualit | utiliza | Osmotic | CO1: Students will have a |
|----|--------|---------|---------|---------|--------------|------------------------------------|
| -7 | ssing | g, | У | tion of | dehydration, | thorough understanding of |
| | of | utiliza | Contro | Fruit | canning, | various food processing |
| | Fruits | tion of | l in | and | freezing | techniques. |
| | , | Fruit | Food | Veget | | PO8: Application of |
| | Veget | and | Proces | able | | Knowledge: - Develop a |
| | ables | Veget | sing | waste | | scientific outlook and apply |
| | and | able | Industr | | | the knowledge with respect to |
| | Plant | waste | у, | | | food technology. |
| | ation | | | | | CO2: The students will know |
| | Crops | | | | | 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. |
| | | | | | | |





| 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 |
| | у | | | | types of | principles and experimental |
| | | | | | quick bread, | findings and the scientific the |
| | | | | | chocolate | ories related to food |
| | | | | | manufacture | technology, food science and |
| | | | | | | Food technology & |
| | | | | | | engineering and its other fields |
| | | | | | | related to the program. |
| | | | | | | CO2: Students will have a |
| | | | | | | thorough understanding on |
| | | | | | | effect of blending and baking |
| | | | | | | on final product of bakery. |
| | | | | | | PO6: Use of Modern Tools:- |
| | | | | | | Operatemoderntools, equipme |
| | | | | | | nt, instruments and laboratory te |
| | | | | | | 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. |





| ED | Doim | Monu | Monu | atondardizati | On completion of the course |
|----------|-------|--------|--------|----------------|------------------------------------|
| гr 12 | | foot | foot | stanuaruizati | on completion of the course, |
| -15 | Tech | factur | factur | on, | students will be able to: |
| | nolog | ing of | ing of | Homogenizat | COI: Give a comprehensive |
| | У | Ghee, | Ghee, | 10n, | view of the composition of |
| | | Milk | Milk | Pasteurizatio | milk, its chemical, physical |
| | | powd | powd | n, | and organoleptic properties |
| | | er, | er, | Homogenize | that can be applied in |
| | | Khoa, | Khoa, | rs, Bottle and | technological processing of |
| | | milk | milk | pouch fillers, | milk. |
| | | based | based | Milk | |
| | | sweet | sweet | Chillers, | PO4: Analytical Reasoning |
| | | S | S | Manufacture | and Problem Solving- To |
| | | ~ | ~ | of Ice Cream. | enable the students with good |
| | | | | Cream | scientific |
| | | | | Paneer | and engineering knowledge so |
| | | | | Butter | as to comprehend design and |
| | | | | Dutter | create food products and |
| | | | | | devices |
| | | | | | for the food industry and |
| | | | | | provide solutions for the |
| | | | | | challenges in the food industry |
| | | | | | chaneliges in the food moustry |
| | | | | | |
| | | | | | agriculture. |
| | | | | | CO2. Evaluin the anadustica |
| | | | | | CO2: Explain the production |
| | | | | | of milk and pre-treatment of |
| | | | | | milk. |
| | | | | | DO7 . Data 1 (1.11) |
| | | | | | PU/: 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: 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 of | On completion of the course, |
|-----|--------|---------|---------|---------|----------------|---------------------------------------|
| -14 | Quali | у | ial | У | Food | students will be able to: |
| | ty, | contro | Comm | contro | Adulteration | CO1: Be able to critically |
| | Laws | 1 | odities | 1 | Act, Food | evaluate the recent |
| | and | labora | Act, | 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 | explaining the scientific data, |
| | | У | res, | У | Alimentarius | facts and figures |
| | | contro | Export | contro | , Codex | related to Science and |
| | | 1 | (Qualit | 1 | India, World | technology. |
| | | labora | у | labora | Health | |
| | | tories | control | tories | Organization | CO2: Have an integrated view |
| | | of | and | of | , | of the issues involved. |
| | | Consu | Inspec | Consu | International | |
| | | mer | tion) | mer | Organization | PO5: Sense of Inquiry:- |
| | | co- | Act, | co- | for | Curiously ask relevant |
| | | operat | Burea | operat | Standardizati | questions for better |
| | | ives, | u of | ives, | on, Food and | understanding of |
| | | Privat | Indian | Privat | Agriculture | fundamental concepts and |
| | | e | Standa | e | Organization | principles, scientific theories |
| | | testin | rds | testin | , Joint | and applications related to the |
| | | g | Act, | g | FAO/WHO | study. |
| | | labora | Agmar | labora | Expert | |
| | | tories, | k | tories, | committee on | CO3: Be able to conduct risk |
| | | Consu | Gradin | Consu | food | assessments of food safety |
| | | mer | g and | mer | additives, | problems including genetic |
| | | Guida | Marke | Guida | British Retail | modification. |
| | | nce | ting | nce | Consortium(| |
| | | Societ | Act | Societ | BRC) | PO11: Environment and |
| | | У | and | У | standard for | Sustainability:- Develop |
| | | | Rules | | Foods. | various communication skills |
| | | | Nutriti | | | such as |
| | | | onal | | | reading, listening and speaking |
| | | | Labelli | | | skills to express ideas and |
| | | | ng & | | | views clearly and effectively. |
| | | | Educat | | | l l l l l l l l l l l l l l l l l l l |
| | | | ion | | | CO4: Demonstrate detailed |
| | | | act, | | | knowledge of the requirements |





| | Munic ipal Labora tories, Food and Drug Admin istratio n, The central Food Testin g Labora tory, Export Inspec tion Counc il Labora tory | 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 multidisciplinary approaches related to food Technology and engineering. |
|--|--|---|
|--|--|---|





| FP | Princi | Harve | Harve | Post harvest | On completion of the course, |
|-----|--------|--------|--------|--------------|-------------------------------------|
| -15 | ples | sting | sting | technology | students will be able to: |
| | of | factor | factor | of Cereal, | CO1: Understand |
| | Post | s, | s, | Pulses, | technologies of post harvest |
| | Harve | Matur | Matur | Oilseeds, | technology and its role in |
| | sts | ity of | ity of | Fruits and | providing better quality |
| | Tech | harve | harve | Vegetables. | produce to the consumer. |
| | nolog | st. | st. | meat. milk. | I |
| | v | Harve | Harve | fish & Food | PO1: Disciplinary Knowledge |
| | 5 | sting | sting | storage | - Understand the basic |
| | | Meth | Meth | systems | 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 fields |
| | | storag | storag | | related to the program. |
| | | e | e | | remed to the program |
| | | syste | syste | | CO2: Understand importance |
| | | ms | ms | | prevention of losses |
| | | 1115 | 1115 | | 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 |
| | | | | | shen me extension. |



| PO6: Use of Modern Tools:- Operatemoderntools,equipme nt,instrumentsandlaboratoryte chniquesto perform the experiments and write the programs in different languages. |
|--|
| 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. |
| |





| 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 |
| | | Meas | | Meas | | Control Points (HACCP). |
| | | ures | | ures | | |
| | | | | | | PO8: Application of |
| | | | | | | Knowledge:- Develop a |
| | | | | | | scientific out look and apply |
| | | | | | | the knowledge with respect to |
| | | | | | | tood technology. |
| | | | | | | |
| | | | | | | CO4: Recognize the principal |
| | | | | | | legal responsibilities of food |





| | r | |
|--|---|--|
| | | 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- 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 |
| | v | | | | packaging | materials used for a range of |
| | 5 | | | | machine: seal | consumer food . |
| | | | | | and shrink | |
| | | | | | packaging | PO1: Disciplinary Knowledge |
| | | | | | machine: | - Understand the basic |
| | | | | | form and fill | concepts. fundamental |
| | | | | | sealing | principles and |
| | | | | | machine. | experimental findings and the |
| | | | | | aseptic | scientific the ories related to |
| | | | | | nackaging | food technology food science |
| | | | | | systems. | and |
| | | | | | bottling | Food technology & |
| | | | | | machines | engineering and its other fields |
| | | | | | carton | related to the program |
| | | | | | making | related to the program. |
| | | | | | machines | CO2 : Design solutions to |
| | | | | | maennes | packaging problems |
| | | | | | | packaging problems. |
| | | | | | | PO7- Research Skills:- |
| | | | | | | Understand how to design |
| | | | | | | collect analyze interpret |
| | | | | | | and evaluate information/data |
| | | | | | | that is relevant to food |
| | | | | | | technology |
| | | | | | | teennorogy. |
| | | | | | | CO3: Measure and evaluate |
| | | | | | | the chemical physical and |
| | | | | | | mechanical properties of |
| | | | | | | nackages and nackaging |
| | | | | | | puckuges and puckuging. |
| | | | | | | PO7- Research Skills- |
| | | | | | | Understand how to design |
| | | | | | | collect analyze interpret |
| | | | | | | and evaluate information/data |
| | | | | | | that is relevant to food |
| | | | | | | technology |
| | | | | | | teennorogy. |





| | 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 food technology, food science and Food technology & engineering and its other fields related to the program. |





| Progr | Co | Cour | Topic in the syllabus which has | | | | POs, PSO's & COs |
|-------|---------|-------|---------------------------------|---------|---------|---------|--|
| amm | urs | se | relevance to the developmental | | | mental | |
| e | e | Title | | ne | eds | | |
| | Co | | Local | Natio | Regio | Globa | |
| | de | | | nal | nal | 1 | |
| | | _ | | | | | |
| M.Vo | FP _ | Bever | Packa | FSSA | Packa | FSSAI | After learning this subject |
| с. | T- | ages | ged | I | 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 | CO3: Students will have thorough |
| | | | Flour | | Flour | logy | knowledge of different types of |
| | | | based | | based | for | 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 Food |
| | | | ts; | | ts; | | technology & engineering and its |
| | | | savour | | savour | | other fields related to the program. |
| | | | y and | | y and | | l l |





| | | | farsans ; formul ated chips and wafers , papads | | farsans ; formul ated chips and wafers , papads | | CO4: Students will get brief knowledge of fruits and vegetables based snacks. PO8- Application of Knowledge:- Develop a scientific outlook and apply the knowledge with respect to food technology. |
|--|-----------------|--|---|---|---|--|--|
| | FP T- 202 | Food Additi ves, and Toxic ology | Food, conta minant s, types of food additiv es | - | Food conta minant s, types of food additiv es | Toxic ologic al evalua tion of food additi ves | Students should be able to: CO1: Uses of additive in food material PO6- Use of Modern Tools:- Operatemoderntools,equipment,in strumentsandlaboratorytechniques to perform the experiments and 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. |
| | FP T- 203 | Adva nces Food Proce ssing and Packa ging | Biode gradab le plastic s, Edible gums, Coatin gs | | Biode gradab le plastic s, Edible gums, Coatin gs | Classi ficatio n of Therm al Proces ses, freezi ng, Active packa ging, Modif ied atmos pheric | CO1: Students will be able to understand major food preservation and Packaging techniques and underlying principles. 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: Students will be able to determine suitable methods of |





| | | | packa | processing and Packaging |
|--|--|--|---------|---|
| | | | ging. | techniques for a chosen food. |
| | | | Asepti | PO7- Research Skills:- |
| | | | c | 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 manufacturing |
| | | | Form | PO1:- Disciplinary Knowledge - |
| | | | and | Understand the basic concepts, |
| | | | fill | fundamental principles and |
| | | | sealin | experimental findings and the |
| | | | g | scientific the ories related to food |
| | | | machi | technology, food science and Food |
| | | | ne, | technology & engineering and its |
| | | | Vacuu | other fields related to the program. |
| | | | m | CO5: Students will be able to |
| | | | packa | understand major packaging |
| | | | ging | material and methods used in food |
| | | | machi | packaging. |
| | | | ne, | PO1:-Disciplinary Knowledge - |
| | | | Retort | Understand the basic concepts, |
| | | | pouch | fundamental principles and |
| | | | es, | experimental findings and the |
| | | | Bottli | scientific the ories related to food |
| | | | ng | technology, food science and Food |
| | | | machi | technology & engineering and its |
| | | | nes, | other fields related to the program. |
| | | | Packa | l literature de la companya de la co |
| | | | ge | |
| | | | printin | N N |





| | FP T- 301 | Dairy Proce ssing Techn ology | Produc tion and proces sing of cream, butter and ghee | Challe nges faced by the Indian Dairy Suppl y Chain. | Produc tion and proces sing of cream, butter and ghee | g machi nes, Ionizi ng radiati on Chees e Techn ology, Suppl y Chain Mana gemen t of Dairy Produ cts | CO1: Students will understand the concept of processing of milk and milk products. 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 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 |
|--|-----------------|---|--|---|--|---|--|
| | FP | Post- | Size | WTO | Size | Unit | to food technology. CO1: Students will acknowledge |
| | T- 302 | Harve st Techn ology | reducti on proces s, Mass, Energ y balanc e and Heat transfe r, | guidel ines for export of hortic ultural produ ces – COD EX standa | reducti on proces s, Mass, Energ y balanc e and Heat transfe r, | operat ions of food proces sing, postha rvest disord ers, pest and diseas | 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. |





| | Produc | rds | Produc | es and | CO2: The students will able to |
|--|---------|---------|---------|---------|---------------------------------------|
| | ts and | and | ts and | their | explain processing and packaging |
| | by | export | by | manag | operations. |
| | produc | standa | produc | ement | PO6- Use of Modern Tools:- |
| | ts of | rds for | ts of | in | Operatemoderntools,equipment,in |
| | plantat | major | plantat | major | strumentsandlaboratorytechniques |
| | ion | fruits, | ion | hortic | to perform the experiments and |
| | crops: | vegeta | crops: | ultural | write the programs in different |
| | cashe | bles | cashe | crops | languages. |
| | w, | and | w, | | |
| | areca | planta | areca | | |
| | nut, | tion | nut, | | |
| | cocon | crops. | cocon | | |
| | ut, | | ut, | | |
| | Coolin | | Coolin | | |
| | g | | g | | |
| | 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 | | |





| FP | Food | Good | HAC | Good | HAC | CO1: Students will understand |
|----|--------|---------|--------|---------|---------|--|
| T3 | Safety | manuf | CP, | manuf | CP, | the concept of quality management |
| 03 | and | acturin | ISO, | acturin | ISO, | in food processing. |
| | Qualit | g | Codex | g | Codex | PO8- Application of Knowledge:- |
| | y | practic | Alime | practic | Alime | Develop a scientific out look and |
| | Mana | es | ntariu | es | ntarius | apply the knowledge with respect |
| | geme | (GMP) | S | (GMP) | Comm | to food technology. |
| | nt | · / | Com | × / | ission | CO2: The students will able to |
| | | | missio | | (CAC) | explain the degree of standard of |
| | | | n | | × / | any processed product. |
| | | | (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. |
| | | | | | | - |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |





MEDIA AND COMMUNICATION STUDIES

| Program | Cou | Course | Topic in th | ne syllabus w | which has re | elevance to | POs, |
|------------------------|-----|------------|-------------|---------------|--------------|-------------|-------------|
| me | rse | Title | t | he developn | nental needs | S | PSO's & |
| | Cod | | Local | National | Regional | Global | COs |
| | e | | | | | | |
| DV | DA | T (1 (| | | | D C | D O |
| B.Voc. | JM | Introducti | | | | Process of | PO- |
| Journalis | 101 | on to | | | | Communi | 1,2,3,6,7 |
| m and | | Mass | | | | cation | PSO- |
| Mass | | Communi | | | | | 1,2,3,4,5,6 |
| Communi | | cation | | | | | CO1,2, |
| cation 1 st | | | | | | | 3,4,5,6,7 |
| Year | | | | | | | |
| B.Voc. | JM | UBJM112 | | Legal and | | | PO- |
| Journalis | 102 | Introducti | | ethical | | | 1,2,3,6,7 |
| m and | | on to | | Framewor | | | PSO- |
| Mass | | Journalis | | k | | | 1,2,3,4,5,6 |
| Communi | | m | | | | | CO1,2, |
| cation 1 st | | | | | | | 3,4,5,6,7 |
| Year | | | | | | | |
| B.Voc. | JM | Current | | Socio- | Socio- | | |
| Journalis | 103 | Affairs- | | political | political | | PO- |
| m and | | World, | | scenario | scenario | | 1,2,3,6,7 |
| Mass | | India, | | of India., | Maharas | | PSO- |
| Communi | | Maharash | | Economic | htra | | 1,2,3,4,5,6 |
| cation 1 st | | tra | | situation | Economi | | CO1,2, |
| Year | | | | of India. | с | | 3,4,5,6,7 |
| | | | | | situation | | |
| | | | | | of | | |
| | | | | | Maharas | | |
| | | | | | htra | | |
| | | | | | Agricultu | | |
| | | | | | ral | | |
| | | | | | Scenario | | |
| | | | | | in India | | |





| B.Voc. Journalis m and Mass Communi cation 1 st Year | JM 104 | Language skills- Marathi | - | - | - | - | PO- 1,2,3,6,7 PSO- 1,2,3,4,5,6 CO1,2, 3,4,5,6,7 |
|---|-----------|--------------------------------|----------|-----------|-----------|---|--|
| B.Voc. | JM | Computer | MS- | Web | Introduct | | PO- |
| Journalis | 105 | Applicati | WORD | developm | ion to | | 1,2,3,6,7 |
| m and | | on for | | ent: | Photosho | | PSO- |
| Mass | | Media | | HIML | р | | 1,2,3,4,5,6 |
| cotion 1 st | | | | Scripting | | | CO1, 2, |
| Year | | | | language | | | 5,4,5,0,7 |
| B.Voc. | JM | Basics of | | Compositi | Camera | | PO- |
| Journalis | 106 | photograp | | on | modes, | | 1,2,3,6,7 |
| m and | | hy | | | Camera | | PSO- |
| Mass | | | | | controls | | 1,2,3,4,5,6 |
| Communi | | | | | | | CO1,2, |
| cation 1 st | | | | | | | 3,4,5,6,7 |
| Year | 11.70 | NT | N | XX7 1' | | | DO |
| B.Voc. | JM2 | News | News | Working | Basics of | | PO- |
| Journalis | 01 | reporting | and Nove | Docks 2 | Writing | | 1,2,3,0,7 PSO |
| Mass | | Editing_I | Reats | Desks 2 | Editing | | 123456 |
| Communi | | Lutting-1 | Deats | | Lutting | | 1,2,3,4,3,0 |
| cation 1 st | | | | | | | 3.4.5.6.7 |
| Year | | | | | | | _,_,_,_,_, |
| B.Voc. | JM2 | Writing | Story | Practice | Various | | PO- |
| Journalis | 02 | for | Writing | Writing | Types of | | 1,2,3,6,7 |
| m and | | Media-I | | | Online | | PSO- |
| Mass | | | | | Media | | 1,2,3,4,5,6 |
| Communi | | | | | Writing | | CO1,2, |
| cation 1 st | | | | | | | 3,4,5,6,7 |
| Year | | | | | | | |





| B.Voc. Journalis m and Mass Communi cation 1 st Year | JM2 03 | India after independe nce | - | - | - | - | CO1,2, 3 |
|---|-----------|---------------------------------|---------------------|---------|---------------|---------|-------------------|
| B.Voc. | JM 204 | Language | Grammar | | Personali | Writing | PO- |
| Journalis | 204 | SK111S- English | Usage, Interview | | ty develop | and | 1,2,3,6,7 PSO- |
| Mass | | Linghish | and Group | | ment | nsion | 1.2.3.4.5.6 |
| Communi | | | discussion | | | skills | CO1,2, |
| cation 1 st | | | | | | | 3,4,5,6,7 |
| Year | | | | | | | |
| B.Voc. | JM 205 | Feature | Computer | Writing | Human | | PO- |
| Journalis | 205 | writing | typing | across | interest | | 1,2,3,6,7 PSO |
| Mass | | | teeninques | media | 5101105 | | 1.2.3.4.5.6 |
| Communi | | | | | | | CO1,2, |
| cation 1st | | | | | | | 3,4,5,6,7 |
| Year | | | | | | | |
| B.Voc. | JM 206 | Content | Creation | | Types of | | PO- |
| Journalis | 206 | Productio | of short | | Content | | 1,2,3,6,7 PSO |
| Mass | | n on Mobile | VILLEUS | | | | 123456 |
| Communi | | Moone | | | | | CO1.2. |
| cation 1 st | | | | | | | 3,4,5,6,7 |
| Year | | | | | | | |
| B.Voc. | JM | News | Layout | | Reportin | | PO- |
| Journalis | 301 | Reporting | Design | | g, | | 1,2,3,6,7 |
| m and Mass | | and Editing U | and Photojour | | interview | | PSU- 123456 |
| Communi | | Euring-II | nalism | | reative | | 1,2,3,4,3,0 |
| cation 2 nd | | | 114115111 | | Editing | | 3.4.5.6.7 |
| Year | | | | | 8 | | -,.,.,.,.,. |





| B.Voc. | JM | Writing | Creative | | Writing | PO- |
|------------------------|-----|------------|------------|-----------|----------|-------------|
| Journalis | 302 | for | Content | | for Non- | 1,2,3,6,7 |
| m and | | Media-II | Creation | | Fiction | PSO- |
| Mass | | | | | Genres | 1,2,3,4,5,6 |
| Communi | | | | | | CO1,2, |
| cation 2 nd | | | | | | 3,4,5,6,7 |
| Year | | | | | | |
| B.Voc. | JM | Introducti | | Radio | Radio | PO- |
| Journalis | 303 | on to | | News, | News, | 1,2,3,6,7 |
| m and | | Radio | | Productio | Producti | PSO- |
| Mass | | | | n | on | 1,2,3,4,5,6 |
| Communi | | | | technolog | technolo | CO1,2, |
| cation 2 nd | | | | y | gy | 3,4,5,6,7 |
| Year | | | | • | | |
| B.Voc. | JM | Reporting | Specialize | Photograp | Writing | PO- |
| Journalis | 304 | and | d Writing, | hy | across | 1,2,3,6,7 |
| m and | | Editing | Layout | | media | PSO- |
| Mass | | Skills | and design | | | 1,2,3,4,5,6 |
| Communi | | | C | | | CO1,2, |
| cation 2 nd | | | | | | 3,4,5,6,7 |
| Year | | | | | | |
| B.Voc. | JM | Radio | Radio | | Advertis | PO- |
| Journalis | 305 | Productio | Program | | ment | 1,2,3,6,7 |
| m and | | n | productio | | | PSO- |
| Mass | | | n | | | 1,2,3,4,5,6 |
| Communi | | | | | | CO1,2, |
| cation 2 nd | | | | | | 3,4,5,6,7 |
| Year | | | | | | |
| B.Voc. | JM | Experime | produce a | | | PO- |
| Journalis | 306 | ntal | four-page | | Design | 1,2,3,6,7 |
| m and | | Journal | newspaper | | and | PSO- |
| Mass | | | | | layout | 1,2,3,4,5,6 |
| Communi | | | | | - | CO1,2, |
| cation 2 nd | | | | | | 3,4,5,6,7 |
| Year | | | | | | |





| B.Voc. | JM | Introducti | News | | Televisio | | PO- |
|------------------------|-----|------------|-------------|------------|-----------|------------|-----------------|
| Journalis | 401 | on to | Gathering | | n | | 1,2,3,6,7 |
| m and | | Televisio | | | Program | | PSO- |
| Mass | | n | | | ming | | 1,2,3,4,5,6 |
| Communi | | | | | U | | CO1.2. |
| cation 2 nd | | | | | | | 3.4.5.6.7 |
| Year | | | | | | | - , , , , , , , |
| B.Voc. | JM | India | | Popular | | | PO- |
| Journalis | 402 | After | | Movemen | | | 1.2.3.6.7 |
| m and | | Independe | | ts. | | | PSO- |
| Mass | | nce | | Eve of | | | 1.2.3.4.5.6 |
| Communi | | | | new | | | CO1.2 |
| cation 2^{nd} | | | | millenniu | | | 34567 |
| Year | | | | m | | | 3,1,3,0,7 |
| B.Voc. | JM | Introducti | | Introducti | Contemp | Internatio | PO- |
| Journalis | 403 | ons to | | on to | orary | nal Trade | 1.2.3.6.7 |
| m and | | Economic | | Indian | Economi | and its | PSO- |
| Mass | | s | | Economy | c Issues | impact | 123456 |
| Communi | | 5 | | Leonomy | in State | mpuer | CO1 2 |
| cation 2^{nd} | | | | | of | | 34567 |
| Vear | | | | | Maharas | | 5,-1,5,0,7 |
| 1 cui | | | | | htra | | |
| B Voc | IM | Televisio | News | News | News | | PO- |
| Iournalis | 404 | n | Anchoring | Productio | Gatherin | | 12367 |
| m and | 101 | Productio | Thienoring | n- | g and | | PSO- |
| Mass | | n | | Packaging | writing | | 123456 |
| Communi | | 11 | | and | witting | | CO12 |
| cation 2^{nd} | | | | productio | | | 34567 |
| Year | | | | n | | | 3,1,3,0,7 |
| B.Voc | JM | Film | Other | | World | | PO- |
| Journalis | 405 | Appreciat | Film | | and | | 1.2.3.6.7 |
| m and | | ion | Institution | | Indian | | PSO- |
| Mass | | | s | | Cinema | | 1.2.3.4.5.6 |
| Communi | | | ~ | | Sinonia | | CO1 2 |
| and | | | | | | | |
| cation 2 nd | | | | | | | 3.4.5.6.7 |





| B.Voc. Journalis m and Mass Communi | JM 406 | Basics of Video productio n | Camera Exercise, Editing, Camera Technique | | | | PO- 1,2,3,6,7 PSO- 1,2,3,4,5,6 CO1,2, |
|---|-----------|--|---|---|---------------------------------------|---|--|
| cation 2 nd Year | | | s | | | | 3,4,5,6,7 |
| B.Voc. Journalis m and Mass Communi cation 3 rd Year | JM 501 | Introducti on to Digital Media | | Social Media, New Media Theories | Digital storytelli ng | | PO- 1,2,3,6,7 PSO- 1,2,3,4,5,6 CO1,2, 3,4,5,6,7 |
| B.Voc. Journalis m and Mass Communi cation 3 rd Year | JM 502 | Introducti on to Media Research | Data Analysis | Qualitativ e research methods, Quantitati ve research methods | | | PO- 1,2,3,6,7 PSO- 1,2,3,4,5,6 CO1,2, 3,4,5,6,7 |
| B.Voc. Journalis m and Mass Communi cation 3 rd Year | JM 503 | Mass Communi cation Theory | Personal Influence and Sociologic al Theory | Normativ e Theories of Mass Communi cation | Mass Media and Culture | Mass Communi cation Theories | PO- 1,2,3,6,7 PSO- 1,2,3,4,5,6 CO1,2, 3,4,5,6,7 |
| B.Voc. Journalis m and Mass Communi cation 3 rd Year | JM 504 | Content Developm ent For Digital Media | Writing for Digital Media | | Fake News and facts checking | Twitter and Instagram , YouTube | PO- 1,2,3,6,7 PSO- 1,2,3,4,5,6 CO1,2, 3,4,5,6,7 |



| E-mail : principal.tccollege@gmail.com | Religious Minority Institute | NAAC Reaccredited 'A+' Grade, CGPA 3.55 | | | | |
|---|---|--|--|--|--|--|
| Prof. Dr. Avinash S. Jagtap M.Sc. Ph.D. PRINCIPAL | Em | bist. Pune. Maharashtra, India. powered Autonomous Status | | | | |
| महाविद्यालय, बारामती | of Arts, Science and Commerce, Baramati - 413102. | | | | | |
| अनेकांत एउन्होना संसादनीत | TULJARAM CHATURCHAND COLLEGE | | | | | |
| | Anekant Education Society's | | | | | |
| 1942 Colour-may | | ।। सिध्दिरनेकान्तात्।। | | | | |

| B.Voc. Journalis m and Mass Communi cation 3 rd Year | JM 505 | Video Productio n Group Project | Screenpla y writing, Script writing, Productio n Work | | | PO- 1,2,3,6,7 PSO- 1,2,3,4,5,6 CO1,2, 3,4,5,6,7 |
|---|-----------|--|--|---|--|--|
| B.Voc. Journalis m and Mass Communi cation 3 rd Year | JM 506 | Industry Internship | | | Internshi p | PO- 1,2,3,6,7 PSO- 1,2,3,4,5,6 CO1,2, 3,4,5,6,7 |
| B.Voc. Journalis m and Mass Communi cation 3 rd Year | JM 601 | Basics of Advertisi ng | | Theories and Models of Advertisi ng | Understa nding Brands, Working of Advertisi ng Agency | PO- 1,2,3,6,7 PSO- 1,2,3,4,5,6 CO1,2, 3,4,5,6,7 |
| B.Voc. Journalis m and Mass Communi cation 3 rd Year | JM 602 | Basics of Public Relations | PR during crisis | | Use of Social Media in PR | PO3,PSO 2 CO1,2,3,4, 5,6,7 |
| B.Voc. Journalis m and Mass Communi cation 3 rd Year | JM 603 | Media Managem ent | Marketing strategies | | Finance and HR Manage ment | PO5, PSO7 CO1,2,3,4, 5 |



| M.Sc. Ph.D. PRINCIPAL | Em | powered Autonomous Status |
|--|------------------|----------------------------------|
| Prof. Dr. Avinash S. Jagtap M.Sc. Ph.D. | D | ist. Pune. Maharashtra, India. |
| तुळजाराम चतुरचंद महाविद्यालय, बारामती | of Arts, Science | and Commerce, Baramati - 413102. |
| whater configure statistically | TIIIIARAMC | HATURCHAND COLLEGE |
| | An | ekant Education Society's |
| tang comment | | ।। सिध्दिरनेकान्तात्।। |

| B.Voc. | JM | Advertisi | Creation | Online | Advertisi | PO4, PSO |
|------------------------|-----|------------|-----------|-----------|-----------|-------------|
| Journalis | 604 | ng | of | platforms | ng | 6 |
| m and | | Practices | Advertise | for | Campaig | CO1,2,3,6, |
| Mass | | | ment | advertise | n design | 7 |
| Communi | | | | ments | U U | |
| cation 3 rd | | | | | | |
| Year | | | | | | |
| B.Voc. | JM | Dissertati | RESEAR | | | PO6 |
| Journalis | 605 | on/In- | СН | | | PSO6,CO1, |
| m and | | depth | PROJECT | | | 2,36,7 |
| Mass | | reporting | | | | |
| Communi | | (IDR) | | | | |
| cation 3 rd | | | | | | |
| Year | | | | | | |
| B.Voc. | JM | Internship | | | Internshi | PO- |
| Journalis | 606 | _ | | | р | 1,2,3,6,7 |
| m and | | | | | | PSO- |
| Mass | | | | | | 1,2,3,4,5,6 |
| Communi | | | | | | CO1,2, |
| cation 3 rd | | | | | | 3,4,5,6,7 |
| Year | | | | | | |





| Progra mme | Cou rse | Course Title | Topic in t | Topic in the syllabus which has relevance to the developmental needs | | | POs, PSO's |
|--|------------|--|--------------------------------------|--|--------------------------------------|---|---|
| | Cod e | | Local | National | Regional | Global | & COs |
| M. Voc Media Studies 1 st year | MS 101 | NTRODUCTI ON TO MEDIA STUDIES | | Sign, Codes | | | <i>PSO3</i> CO1,2, 3,4,5 |
| M.Voc Media Studies 1 st year | MS 102 | INTRODUCT ION TO JOURNALIS M | Journalis m | Journalis m, Reuters, AP, AFP, UNI, PTI, ANI | Journalism | Journalis m | <i>PO1,2,</i> <i>PSO, 3,</i> <i>4</i> CO3,4, 5,6,7 |
| M.Voc Media Studies 1 st year | MS 103 | INTRODUCT ION TO VIDEO PRODUCTIO N | Visual Compositi on | | People and Work | | PO1,2,3 <i>PSO-1</i> , <i>2,3,4,5</i> , <i>6</i> CO1,2, <i>3,4,5,6</i> |
| M.Voc Media Studies 1 st year | MS 104 | Writing for Media | | Writing for online media | Writing for Print | - | PO-6,7 PSO- 2,3,4,5, 6 CO1,2, 3,4,5,6, 7 |
| M.Voc Media Studies 1 st year | MS 105 | PHOTOGRA PHY | Employm ent in photograp hy | Employm ent in photograp hy | Employme nt in photograph y | DSLR camera controls and handling | PO-6,7 PSO- 2,3,4,5, 6 CO1,2, 3,4,5 |
| M.Voc Media | MS 106 | INTRODUCT ION TO | | PHOTOS HOP, | ILLUSTR ATOR | | PO- 1,2,3,6, (|





| Studies | | MEDIA | | ADOBE | | | PSO- |
|----------------------|------|-----------|----------------|-------------|--------------|------------|-----------------------|
| 1 st year | | SOFTWARE | | AFTER | | | 1,2,3,4, |
| • | | | | EFFECT | | | 5,6 |
| | | | | S | | | CO1,2, |
| | | | | | | | 3,4,5,6, |
| | | | | | | | 7 |
| M.Voc | MS | CAMERA | Basic | | Basic | | PO- |
| Media | 107 | TECHNIQUE | operations | | operations | | 1,2,3,6, |
| Studies | | S-I | of camera | | of camera | | 7 |
| 1 st year | | | | | | | PSO- |
| | | | | | | | 1,2,3,4, |
| | | | | | | | 5,6 |
| | | | | | | | CO1,2, |
| | | | | | | | 3,4,5,6, |
| | 1.69 | | T T T T | | | | 7 |
| M.Voc | MS | VISUAL | Visual | Visual | | | PO- |
| Media | 201 | COMMUNIC | Design, | Theories | | | 1,2,3,6, |
| Studies | | ATION | Visual Art | | | | |
| 1 st year | | | | | | | PSO- |
| | | | | | | | 1,2,3,4, |
| | | | | | | | 5,0 |
| | | | | | | | 3456 |
| | | | | | | | 7, 1 ,5,0, |
| M.Voc | MS | MEDIA. | Mass | Media | Media | Media | PO- |
| Media | 202 | SOCIETY | Audiences | Structure | Structure | Structure | 1.2.3.6. |
| Studies | | AND | | and | and | and | 7 |
| 1 st year | | CULTURE | | Institution | Institution, | Institutio | PSO- |
| 2 | | | | , | Mass | n | 1,2,3,4, |
| | | | | Mass | Audiences | | 5,6 |
| | | | | Audience | | | CO1,2, |
| | | | | S | | | 3,4,5,6, |
| | | | | | | | 7 |
| M.Voc | MS | Media | Research | Social | Social | Writing | PO- |
| Media | 203 | Research | in | Sciences | Sciences | and | 1,2,3,6, |
| Studies | | Methods | Communi | and | and | comprehe | 7 |
| 1 st year | | | cation | Research | Research | nsion | PSO- |
| | | | | Methods | Methods | sk1lls | 1,2,3,4, |
| | | | | | | | 5,6 |
| | | 1 | | 1 | | 1 | |





| | | | | | | | CO1,2, 3,4,5,6, 7 |
|---|-------------|---|---|------------------------------|------------------------|----------|--|
| M.Voc Media Studies 1 st year | - MS 204 | Camera Techniques- II | Compositi on, Shooting | Shooting | Shooting | Shooting | PO- 1,2,3,6, 7 PSO- 1,2,3,4, 5,6 CO1,2, 3,4,5,6, 7 |
| M.Voc Media Studies 1 st year | MS 205 | Experimental Journal | Productio n of Laborator y Journal | | | | PO- 1,2,3,6, 7 PSO- 1,2,3,4, 5,6 CO1,2, 3,4,5,6, 7 |
| M.Voc Media Studies 1 st year | MS 206 | Script Writing | Writing for the Screen | Writing for the Screen | | | PO- 1,2,3,6, 7 PSO- 1,2,3,4, 5,6 CO1,2, 3,4,5,6, 7 |
| M.Voc Media Studies 1 st year | MS 207 | VOICE MODULATI ON AND ANCHORIN G SKILLS | Basics of Voice Modulatio n | | Types of Anchoring: | | PO- 1,2,3,6, 7 PSO- 1,2,3,4, 5,6 CO1,2, 3,4,5,6, 7 |





| M.Voc Media Studies 2 nd year | MS 301 A | Script Writing and Direction | Directing Single Camera and Multi Camera, Directing Document aries | Directing Single Camera and Multi Camera, Directing Documen taries | Directing Single Camera and Multi Camera, Directing Document aries | Directing Single Camera and Multi Camera, Directing Documen taries | PO- 1,2,3,6, 7,8,9 PSO- 1,2,3,4, 5,6,7 CO1,2, 3,4,5,6, 7 |
|---|----------------|---|---|---|---|---|--|
| M.Voc Media Studies 2 nd year | MS 302 A | Sound and Post Production | Location Recording | Sound Editing, Advanced Post Productio n | Sound Editing, Advanced Post Production | Sound Editing, Advanced Post Productio n | PO- 1,2,3,6, 7,8,9 PSO- 1,2,3,4, 5,6,7 CO1,2, 3,4,5,6, 7 |
| M.Voc Media Studies 2 nd year | MS 303 A | Film Appreciation | Film Language and Elements | Film Genres | Film Language and Elements | World Cinema | PO- 1,2,3,6, 7,8,9 PSO- 1,2,3,4, 5,6,7 CO1,2, 3,4,5,6, 7 |
| M.Voc Media Studies 2 nd year | MS 304 A | Video Production Project (Group) | Video Productio n | | | | PO- 1,2,3,6, 7,8,9 PSO- 1,2,3,4, 5,6,7 CO1,2, 3,4,5,6, 7 |
| M.Voc Media Studies 2 nd year | MS 305 A | Video Editing | Video Editing | Video Editing | Video Editing | Video Editing | PO- 1,2,3,6, 7,8,9 |



| Anekant Education Society's TULJARAM CHATURCHAND COLLEGE of Arts, Science and Commerce, Baramati - 413102. Dist. Pune. Maharashtra, India. Empowered Autonomous Status | E-mail : principal.tccollege@gmail.com | Religious Minority Institute | NAAC Reaccredited 'A+' Grade, CGPA 3.55 |
|--|--|--------------------------------------|---|
| Anekant Education Society's TULJARAM CHATURCHAND COLLEGE of Arts, Science and Commerce, Baramati - 413102. | Prof. Dr. Avinash S. Jagtap M.Sc. Ph.D. | Em | Dist. Pune. Maharashtra, India. |
| | अध्यात प्रविभाग प्रतिप्रदेश अध्यात प्रविभाग प्रतिरचेव नहाविद्यालय, बारामती | An TULJARAM C of Arts, Science | and Commerce, Baramati - 413102. |

| | | | | | | | PSO- |
|----------------------|-----|--------------|------------|------------|-------------|----------|----------|
| | | | | | | | 1,2,3,4, |
| | | | | | | | 5,6,7 |
| | | | | | | | CO1.2, |
| | | | | | | | 3,4,5,6. |
| | | | | | | | 7 |
| M.Voc | MS | Lighting | Lighting | | | | PO- |
| Media | 306 | Techniques | in Studio. | | | | 1.2.3.6. |
| Studies | A | | Shooting | | | | 7.8.9 |
| 2 nd year | | | 8 | | | | PSO- |
| 5 | | | | | | | 1.2.3.4. |
| | | | | | | | 5.6.7 |
| | | | | | | | CO1,2, |
| | | | | | | | 3,4,5,6, |
| | | | | | | | 7 |
| M.Voc | MS | Digital | Digital | Business | | | PO- |
| Media | 301 | Journalism | Story | of Digital | | | 1,2,3,6, |
| Studies | В | | Telling, | Journalis | | | 7,8,9 |
| 2 nd year | | | Mobile | m | | | PSO- |
| | | | Journalis | | | | 1,2,3,4, |
| | | | m | | | | 5,6,7 |
| | | | | | | | CO1,2, |
| | | | | | | | 3,4,5,6, |
| | | | | | | | 7 |
| M.Voc | MS | Social Media | YouTube, | YouTube, | YouTube, | YouTube, | PO- |
| Media | 402 | Marketing | Twitter, | Twitter, | Twitter, | Twitter, | 1,2,3,6, |
| Studies | В | | Facebook | Facebook | Facebook | Facebook | 7,8,9 |
| 2^{nd} year | | | | | | | PSO- |
| | | | | | | | 1,2,3,4, |
| | | | | | | | 5,6,7 |
| | | | | | | | CO1,2, |
| | | | | | | | 3,4,5,6, |
| | | | | | | | 7 |
| M.Voc | MS | Advertising | Creating | | Creating an | | PO- |
| Media | 303 | | an | | Advertise | | 1,2,3,6, |
| Studies | В | | Advertise | | ment | | 7,8,9 |
| 2 nd year | | | ment | | | | PSO- |
| | | | | | | | 1,2,3,4, |
| | | | | | | | 5,6,7 |



| E-mail : principal.tccollege@gmail.com NAAC-SSR | Religious Minority Institute Cvcle IV | NAAC Reaccredited 'A+' Grade, CGPA 3.55 2019 - 2024 | | | |
|---|---|--|--|--|--|
| M.Sc. Ph.D. PRINCIPAL | Em | powered Autonomous Status | | | |
| Prof. Dr. Avinash S. Jagtap | D | Dist. Pune. Maharashtra, India. | | | |
| तुळजाताः चुत्यव महाविद्यालय, बारामती | of Arts, Science and Commerce, Baramati - 413102. | | | | |
| अवेकांत एव्युकेसन संसायदीय | TULJARAM | CHATURCHAND COLLEGE | | | |
| | An | ekant Education Society's | | | |
| Facility contraction | ।। सिध्दिरनेकान्तात्।। | | | | |
| | | | | | |

| | | | | | | CO1,2, 3,4,5,6, |
|---|----------------|-----------------------------------|--|-----------------------------|------------------------------|--|
| | | | | | | 7 |
| M.Voc Media Studies 2 nd year | MS 305 B | Broadcast Journalism | News Gathering and writing, News Anchoring | | | PO- 1,2,3,6, 7,8,9 PSO- 1,2,3,4, 5,6,7 CO1,2, 3,4,5,6, 7 |
| M.Voc Media Studies 2 nd year | MS 304 B | Group Project | News Bulletin Productio n, Creating an Advertise ment Series | | Social Media Promotion | PO- 1,2,3,6, 7,8,9 PSO- 1,2,3,4, 5,6,7 CO1,2, 3,4,5,6, 7 |
| M.Voc Media Studies 2 nd year | MS 306 B | Digital Content Development | Writing for New Media | Digital story telling | Digital story telling | PO- 1,2,3,6, 7,8,9 PSO- 1,2,3,4, 5,6,7 CO1,2, 3,4,5,6, 7 |
| M.Voc Media Studies 2 nd year | MS 401 A | Internship | Internship | | Internship | PO- 1,2,3,6, 7,8,9 PSO- 1,2,3,4, 5,6,7 CO1,2, 3,4,5,6, 7 |



| NAAC-SSR | Cycle IV | 2019 - 2024 |
|---|-------------------------------------|--|
| E-mail : principal.tecollege@gmail.com | Religious Minority Institute | NAAC Reaccredited 'A+' Grade, CGPA 3.55 |
| Prof. Dr. Avinash S. Jagtap M.Sc. Ph.D. PRINCIPAL | Em | Dist. Pune. Maharashtra, India. powered Autonomous Status |
| तुळजाराम पगुरचद महाविद्यालय, बारामती | of Arts, Science | and Commerce, Baramati - 413102. |
| มสัสสาร เวลตุปละสาร สรีสกรณะว่าน | TULJARAM | CHATURCHAND COLLEGE |
| | An | ekant Education Society's |
| Fattaconternet | | ।। सिध्दिरनेकान्तात्।। |
| | | |

| M.Voc | MS | Video | Video | | | PO- |
|--|-----------------------------------|--|---|----------------|--|--|
| Media | 403 | Production | Productio | | | 1,2,3,6, |
| Studies | А | Project | n | | | 7,8,9 |
| 2 nd year | | (Individual) | | | | PSO- |
| 2 | | | | | | 1,2,3,4, |
| | | | | | | 5,6,7 |
| | | | | | | CO1,2, |
| | | | | | | 3,4,5,6, |
| | | | | | | 7 |
| M.Voc | MS | Internship | Internship | | Internship | PO- |
| Media | 401 | | | | | 1,2,3,6, |
| Studies | В | | | | | 7,8,9 |
| 2 nd year | | | | | | PSO- |
| | | | | | | 1,2,3,4, |
| | | | | | | 5,6,7 |
| | | | | | | CO1,2, |
| | | | | | | 3,4,5,6, |
| | | | | | | 7 |
| | | | | | | |
| M.Voc | MS | Study Visit | | Study | Study Visit | PO- |
| M.Voc Media | MS 402 | Study Visit | | Study Visit | Study Visit | PO- 1,2,3,6, |
| M.Voc Media Studies | MS 402 B | Study Visit | | Study Visit | Study Visit | PO- 1,2,3,6, 7,8,9 |
| M.Voc Media Studies 2 nd year | MS 402 B | Study Visit | | Study Visit | Study Visit | PO- 1,2,3,6, 7,8,9 PSO- |
| M.Voc Media Studies 2 nd year | MS 402 B | Study Visit | | Study Visit | Study Visit | PO- 1,2,3,6, 7,8,9 PSO- 1,2,3,4, |
| M.Voc Media Studies 2 nd year | MS 402 B | Study Visit | | Study Visit | Study Visit | PO- 1,2,3,6, 7,8,9 PSO- 1,2,3,4, 5,6,7 |
| M.Voc Media Studies 2 nd year | MS 402 B | Study Visit | | Study Visit | Study Visit | PO- 1,2,3,6, 7,8,9 PSO- 1,2,3,4, 5,6,7 CO1,2, |
| M.Voc Media Studies 2 nd year | MS 402 B | Study Visit | | Study Visit | Study Visit | PO- 1,2,3,6, 7,8,9 PSO- 1,2,3,4, 5,6,7 CO1,2, 3,4,5,6, |
| M.Voc Media Studies 2 nd year | MS 402 B | Study Visit | Descent | Study Visit | Study Visit | PO- 1,2,3,6, 7,8,9 PSO- 1,2,3,4, 5,6,7 CO1,2, 3,4,5,6, 7 |
| M.Voc Media Studies 2 nd year M.Voc | MS 402 B MS- | Study Visit Research | Research | Study Visit | Study Visit Research | PO- 1,2,3,6, 7,8,9 PSO- 1,2,3,4, 5,6,7 CO1,2, 3,4,5,6, 7 PO- 1,2,2,6 |
| M.Voc Media Studies 2 nd year M.Voc Media Studies | MS 402 B MS- 403 P | Study Visit Research Project/In- | Research Project, In donth | Study Visit | Study Visit Research Project, | PO- 1,2,3,6, 7,8,9 PSO- 1,2,3,4, 5,6,7 CO1,2, 3,4,5,6, 7 PO- 1,2,3,6, 7 8 0 |
| M.Voc Media Studies 2 nd year M.Voc Media Studies | MS 402 B MS- 403 B | Study Visit Research Project/In- depth Benerting | Research Project, In-depth Benerting | Study Visit | Study Visit Research Project, In-depth Benerting | PO- 1,2,3,6, 7,8,9 PSO- 1,2,3,4, 5,6,7 CO1,2, 3,4,5,6, 7 PO- 1,2,3,6, 7,8,9 PSO |
| M.Voc Media Studies 2 nd year M.Voc Media Studies 2 nd year | MS 402 B MS- 403 B | Study Visit Research Project/In- depth Reporting | Research Project, In-depth Reporting | Study Visit | Study Visit Research Project, In-depth Reporting | PO- 1,2,3,6, 7,8,9 PSO- 1,2,3,4, 5,6,7 CO1,2, 3,4,5,6, 7 PO- 1,2,3,6, 7,8,9 PSO- 1,2,3,4 |
| M.Voc Media Studies 2 nd year M.Voc Media Studies 2 nd year | MS 402 B MS- 403 B | Study Visit Research Project/In- depth Reporting | Research Project, In-depth Reporting | Study Visit | Study Visit Research Project, In-depth Reporting | PO- 1,2,3,6, 7,8,9 PSO- 1,2,3,4, 5,6,7 CO1,2, 3,4,5,6, 7 PO- 1,2,3,6, 7,8,9 PSO- 1,2,3,4, 5,6,7 |
| M.Voc Media Studies 2 nd year M.Voc Media Studies 2 nd year | MS 402 B MS- 403 B | Study Visit Research Project/In- depth Reporting | Research Project, In-depth Reporting | Study Visit | Study Visit Research Project, In-depth Reporting | PO- 1,2,3,6, 7,8,9 PSO- 1,2,3,4, 5,6,7 CO1,2, 3,4,5,6, 7 PO- 1,2,3,6, 7,8,9 PSO- 1,2,3,4, 5,6,7 CO1,2 |
| M.Voc Media Studies 2 nd year M.Voc Media Studies 2 nd year | MS 402 B MS- 403 B | Study Visit Research Project/In- depth Reporting | Research Project, In-depth Reporting | Study Visit | Study Visit Research Project, In-depth Reporting | PO- 1,2,3,6, 7,8,9 PSO- 1,2,3,4, 5,6,7 CO1,2, 3,4,5,6, 7 PO- 1,2,3,6, 7,8,9 PSO- 1,2,3,4, 5,6,7 CO1,2, 3,4,5,6 |
| M.Voc Media Studies 2 nd year M.Voc Media Studies 2 nd year | MS 402 B MS- 403 B | Study Visit Research Project/In- depth Reporting | Research Project, In-depth Reporting | Study Visit | Study Visit Research Project, In-depth Reporting | PO- 1,2,3,6, 7,8,9 PSO- 1,2,3,4, 5,6,7 CO1,2, 3,4,5,6, 7 PO- 1,2,3,6, 7,8,9 PSO- 1,2,3,4, 5,6,7 CO1,2, 3,4,5,6, 7 |

