



Anjuman Khairul Islam's

POONA COLLEGE OF ARTS, SCIENCE & COMMERCE

- Affiliated to Savitribai Phule Pune University: ID No PU/PN/ASC/023/1970
- Junior College Index No: J-11.15.004
- Government of Maharashtra and Savitribai Phule Pune University Recognized Minority Institute
- UGC - 2(f) & 12 (B) Status • NAAC Re-accredited College • DST - FIST Funded College



K. B. Hidayatullah Road, Camp,
Pune - 411001. (MS), India



+91-20-2645 4240 / 2644 6319.



www.poonacollege.edu.in
principal@poonacollege.edu.in

Professor (Dr.) Aftab Anwar Shaikh

M.Com, Ph.D (Busi. Admin.)

PRINCIPAL



+91 98226 21579



dranwarshaikh@gmail.com

CRITERION- I

KEY INDICATOR	1.3 Curriculum Enrichment
METRIC NO.	1.3.1

- Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum

LIST AND DESCRIPTION OF COURSES WHICH ADDRESS THE PROFESSIONAL ETHICS, GENDER, HUMAN VALUES, ENVIRONMENT AND SUSTAINABILITY INTO THE CURRICULUM

Programme	Title of the Course	Cross Cutting Issue				Description*
		Professional Ethics	Gender	Human Values	Environment & Sustainability	
FYBA (Arabic) CBCS	11141: Arabic General-I			✓	✓	<p>Content in the course:</p> <p>Unit 1:</p> <ul style="list-style-type: none"> Acquiring good habits in day-to-day life to be a good human being. Love of Nature <p>Unit 2:</p> <ul style="list-style-type: none"> Getting knowledge about God, His Prophet and pray for right path.
SYBA (Arabic)	2147: Arabic General-II			✓	✓	<p>Content in the course:</p> <p>Unit 1:</p> <ul style="list-style-type: none"> Recognition and praise of God Seeking right Path. Reality of Human being Importance of Knowledge and Nature. <p>Unit 2:</p> <ul style="list-style-type: none"> The value of time Communication Skills Brotherhood <p>Unit 3: Self respect</p>
TYBA (Arabic)	3147: Arabic General-III			✓	✓	<p>Content in the course:</p> <p>Unit 1:</p> <ul style="list-style-type: none"> The values to form a good society Identifies some very dangerous social evils. <p>The prose part comprises values like:</p> <ul style="list-style-type: none"> Friendship Importance of Justice Love of nature <p>Unit 1 of II term:</p> <ul style="list-style-type: none"> Acquiring good habits Personality development
FYBA	11101: Persian			✓		Content in the course:

(Persian) CBCS	General-I					<ul style="list-style-type: none"> • The dangers of suppression • Disadvantages of a bad friend • The poetries like سعی بهای (working hard) and نیکى (Price of doing good) preach: The importance of hard working and doing good to others selflessly.
SYBA (Persian)	2107: Persian General-II			✓		<p>Content in the course:</p> <p>Unit 1:</p> <ul style="list-style-type: none"> • Oneness of God • The high Values and excellence of Human being • Virtue of Wisdom • Guiding youth to progress <p>The prose section is based on following values:</p> <ul style="list-style-type: none"> • Importance of justice • Virtue of tolerance • Honesty • Virtue of remaining silent • Secret of good life • Responsibilities of a student • The Rules of Communication
TYBA (Persian)	3107: Persian General-III		✓	✓		<p>Content in the course:</p> <p>Unit 1</p> <ul style="list-style-type: none"> • Self recognition and respect • Self development • Balance • Decision making and Seriousness • Steadiness • Love and affection • Respect of women <p>Unit 2: language and translation skills.</p>
F.Y.B.A (Urdu) CBCS	11071 & 11072: General Urdu – I & II		✓	✓		<p>Content in the course:</p> <ul style="list-style-type: none"> • Prose and Poetry: good deeds in the world, • uplifting of women.

T.Y.B.A. (Urdu)	3077: Urdu General – III		✓	✓		Content in the course: <ul style="list-style-type: none"> • Unit 1 and 3: Equal opportunities for men and women specially women’s rights and their leadership; • reaching out to the marginalized section of the society.
M.A. (Urdu) Part I	10701: Modern Prose Texts			✓		Content in the course: <ul style="list-style-type: none"> • Unit 3 & 4: morals, ethics and purity of heart
M.A. (Urdu) Part I	10702: Mass Media	✓		✓		Content in the course: <ul style="list-style-type: none"> • Unit 1: professional and responsible approach in journalism.
M.A. (Urdu) Part I	10704: Special Study of Prose Writer		✓	✓		Content in the course: <ul style="list-style-type: none"> • Unit 1 and 5: Equality of sexes, equal opportunities for men and women; reaching out to the marginalized section of the society.
FYBA (Hindi): CBCS	11092 A : Hindi General 1 (vaykalkik hindi prashnpatra)		✓	✓	✓	Content in the course: <ul style="list-style-type: none"> • ‘Mrs. Disusakenaampatra’ • ‘Juhiki kali’ • ‘Pratishodh’
SYBA (Hindi)	2097: Hindi General 2 (Sahitya)	✓	✓		✓	Content in the course: <ul style="list-style-type: none"> • ‘Ghoos ek chiknai hai’: - anti corruption. • ‘Siliya and Meera Nachi’: • ‘Atit nahi hoti nadi’ poem:
SYBA (Hindi)	2098: Hindi Special 1 (Hindi Bhasha ka Vikas & Bhasha vigyan)	✓			✓	Content in the course: <ul style="list-style-type: none"> • ‘Hindi ka samvedhanik swaroop’
SYBA (Hindi)	2099 : Hindi Special 2 (Upanyas madhyaugin kavya tatha natak)	✓		✓		Content in the course: <ul style="list-style-type: none"> • ‘Kabeer ke dohe’ • ‘Raheem ke dohe’.
TYBA	3097: Hindi General 3		✓	✓		Content in the course: <ul style="list-style-type: none"> • ‘Budhapa’

(Hindi)	(Sahitya)					<ul style="list-style-type: none"> • ‘Himmat aur zindagi’
TYBA (Hindi)	3098: Hindi Special 3 (Hindi Sahitya ka Itihas)		✓	✓	✓	Content in the course: <ul style="list-style-type: none"> • ‘Saroj Smriti’ • ‘Bhakti kaal’.
TYBA Hindi:	3099: Hindi Special 4 (Kavyashashtra)	✓			✓	Content in the course: <ul style="list-style-type: none"> • ‘Kavya ke tatwa’ • ‘Kavya prayojan’.
FY B Com (Hindi)	117: Hindi-I	✓		✓	✓	Content in the course: <ul style="list-style-type: none"> • ‘Maakeprati’ • ‘Jangaldaah’
FYBA (English) CBCS	11011: Compulsory English	✓	✓		✓	Content in the course: <ul style="list-style-type: none"> • On Saying ‘Please’: • A Red, Red Rose • The Felling of a Banyan Tree. • Leave this Chanting and Singing
FYBA (English) CBCS	11331: Optional English General Paper I			✓	✓	Content in the course: <ul style="list-style-type: none"> • A Lesson My Father Taught Me • The World is too Much with Us
SYBA (English)	2017: Compulsory English		✓			Content in the course: <ul style="list-style-type: none"> • ‘Another Woman’
SYBA (English)	2338 : Special English I				✓	Content in the course: <ul style="list-style-type: none"> • Expostulation • Reply The Tables Turned
TYBA (English)	3017 : Compulsory English		✓			Content in the course: Prose: <ul style="list-style-type: none"> • Uncle Podger Hangs a Picture • How Wealth Accumulates and Men Decay • Retrieved Reformation • How Much Land does a Man Need by Leo Tolstoy • The Selfish Giant by Oscar Wilde • On the Rule of the Road • The Diamond Necklace Poetry:

						<ul style="list-style-type: none"> • La Belle Dame Sans Merci • Charge of the Light Brigade • The Ballad of Father Gilligan • If • A Psalm of Life by Henry Wadsworth Longfellow
TYBA (English)	3337 : General English III		✓		✓	Content in the course: <ul style="list-style-type: none"> • Poet, Lover, Birdwatcher • An Introduction
TYBA (English)	3338: Special English III	✓		✓	✓	Content in the course: <ul style="list-style-type: none"> • Animal Farm • The Old Man and the Sea • The Guide
TY BA (English)	3339: Special English IV		✓			Content in the course: <ul style="list-style-type: none"> • Chapter 6
MA I (English)	10091 : English Literature from 1550-1798			✓	✓	Content in the course: <ul style="list-style-type: none"> • ‘King Lear’ • ‘The Tempest’ • “Paradise Lost”
MA I (English)	MA I English: 20091: English Literature from 1550-1798			✓		Content in the course: <ul style="list-style-type: none"> • Paradise Lost (Book I) • Mac Flecknoe • Rape of the Lock • Volpone • Gulliver’s Travels
MA I (English)	10092: English Literature from 1798 to the Present	✓		✓	✓	Content in the course: <ul style="list-style-type: none"> • Frost at Midnight • Dejection: An Ode • Resolution • England 1819 • Ode on Grecian Urn • The Birds Release • Frankenstein • The Cry of the Children
MA I (English)	20092: English Literature from 1798 to the Present	✓	✓	✓	✓	Content in the course: <ul style="list-style-type: none"> • The cry of the Children • In Memorium • Among the Rocks • Preludes • Easter 1916 • Second Coming • Counter Attack

						<ul style="list-style-type: none"> • Blackberry-Picking • Simple Poem • Experience • Wide Sarasso Sea • Rosencrantz and Guildenstern Are Dead
MA II (English)	30694 : Drama in English	✓	✓	✓		Content in the course: <ul style="list-style-type: none"> • Antigone • Doctor Faustus • Hamlet • Volpone
MA II (English)	40694: Drama in English	✓	✓	✓	✓	Content in the course: <ul style="list-style-type: none"> • The Cherry Orchard • Six Characters in Search of an Author • Look Back in Anger • The Zoo Story
MA II English	30698: American Literature	✓	✓	✓	✓	Content in the course: <ul style="list-style-type: none"> • Uncle Tom’s Cabin • Walden • The Song of Myself • Captain! My Captain • The Problem, Each and All • Days
MA II English	40698: American Literature			✓	✓	Content in the course: <ul style="list-style-type: none"> • The Snows of Kilimanjaro • The Sound and Fury • Mending Wall • After Apple Picking • Daddy
F.Y. BCom-2013	102: Financial Accounting	✓				Content in the course: <ul style="list-style-type: none"> • Unit Nos: 4 and 5
F.Y. BCom-2013	103: Business Economics (Micro)	✓				Content in the course: <ul style="list-style-type: none"> • Unit Nos: 5 and 6
F.Y. BCom-2013	104 (A): Business Mathematics and Statistics			✓	✓	Content in the course: <ul style="list-style-type: none"> • Unit Nos: 5 and 10
F.Y. BCom-2013	104 (B): Computer Concepts and Applications	✓				Content in the course: <ul style="list-style-type: none"> • Unit Nos: 3 and 5
F.Y. BCom-	105 B:				✓	Content in the course:

2013	Banking & Finance					<ul style="list-style-type: none"> • Unit Nos - 1 and 2
F.Y. BCom-2013	105 A: Organizational Skill Development	✓				Content in the course: <ul style="list-style-type: none"> • Unit Nos - 4, 6 and 7: internal and external factors of an office environment
SY BCom-2013	201: Business Communication	✓			✓	Content in the course: <ul style="list-style-type: none"> • Unit Nos - 3, 4, 5, 6, 7 and 8
SY BCom-2013	202: Corporate Accounting	✓			✓	Content in the course: <ul style="list-style-type: none"> • Unit Nos - 1, 4, 5 and 8
SY BCom-2013	203: Business Economics (Macro)	✓			✓	Content in the course: <ul style="list-style-type: none"> • Unit Nos - 1 and 8
SY BCom-2013	204: Business Management Course Code	✓		✓		Content in the course: <ul style="list-style-type: none"> • Unit No – 8
SY BCom-2013	205: Elements of Company Law	✓			✓	Content in the course: <ul style="list-style-type: none"> • Unit Nos - 2, 3, 6, 7 and 8
SY BCom-2013	206: Banking & Finance	✓				Content in the course: <ul style="list-style-type: none"> • Unit Nos - 4, 7 and 8
SY BCom-2013	236-E: Cost & Works Accounting.	✓				Content in the course: <ul style="list-style-type: none"> • Unit Nos - 1, 2, 6, 7 and 8
SY BCom-2013	236-H: Marketing Management.	✓		✓	✓	Content in the course: <ul style="list-style-type: none"> • Unit Nos - 2, 5, 6, 7 and 8
SY BCom-2013	236-A: Business Administration				✓	Content in the course: <ul style="list-style-type: none"> • Unit No – 3
T.Y. BCom-2013	301: Business Regulatory Framework (Mercantile Law)	✓			✓	Content in the course: <ul style="list-style-type: none"> • Unit Nos - 4, 5 and 6
T.Y. BCom-2013	302: Advanced Accounting	✓		✓	✓	Content in the course: <ul style="list-style-type: none"> • Unit Nos - 1, 3 and 4
T.Y. BCom-2013	303 (A): Indian & Global		✓		✓	Content in the course: <ul style="list-style-type: none"> • Unit Nos - 5, 6, 7 and 8

	Economic Development					
T.Y. BCom-2013	303 (B): International Economics	✓			✓	Content in the course: <ul style="list-style-type: none"> • Unit Nos - 5, 6, 7 and 8
T.Y. BCom-2013	304: Auditing & Taxation	✓				Content in the course: <ul style="list-style-type: none"> • Section No I, Unit Nos: 1, 2, 3 and 4 • Section No – II, Unit Nos - 1, 2, 3, 4 and 5
T.Y. BCom-2013	305-B: Banking and Finance-II	✓				Content in the course: <ul style="list-style-type: none"> • Unit Nos - 1, 2 and 8
T.Y. BCom-2013	306-E: Cost and Works Accounting - III	✓			✓	Content in the course: <ul style="list-style-type: none"> • Unit Nos - 4, 6, 7 and 8
T.Y. BCom-2013	305-H: Marketing Management-II	✓		✓	✓	Content in the course: <ul style="list-style-type: none"> • Unit Nos - 2, 4, 6 and 8
T.Y. BCom-2013	305-A: Business Administration-II	✓		✓	✓	Content in the course: <ul style="list-style-type: none"> • Term-I: Unit Nos - 1, 2, 3 and 4 • Term-II: Unit Nos - 2 & 3
T.Y. BCom-2013	306-B: Banking and finance-III	✓				Content in the course: <ul style="list-style-type: none"> • Unit Nos - 1, 5, 6 and 8
T.Y. BCom-2013	306-E: Cost and works accounting – III	✓			✓	Content in the course: <ul style="list-style-type: none"> • Unit Nos - 2, 6 and 8
T.Y. BCom-2013	306-H: Marketing Management-III	✓		✓		Content in the course: <ul style="list-style-type: none"> • Unit No-1
T.Y. BCom-2013	306-A: Business Administration-III	✓			✓	Content in the course: <ul style="list-style-type: none"> • Term I: Unit Nos - 1 and 2 • Term II: Unit Nos - 1 and 4
F.Y. B.Com-CBCS Semester-I	112: Financial Accounting- I	✓			✓	Content in the course: <ul style="list-style-type: none"> • Unit Nos - 1 and 4

F.Y. B.Com-CBCS Semester-I	113: Business Economics (Micro) -I	✓			✓	Content in the course: • Unit Nos - 1 and 2
F.Y. B.Com-CBCS Semester-I	114-A: Business Mathematics and Statistics – I	✓				Content in the course: • Unit Nos - 1, 3 and 4
F.Y. B.Com-CBCS Semester-I	114-B: Computer Concepts and Application- I	✓				Content in the course: • Unit Nos - 2 and 4
F.Y. B.Com-CBCS Semester-I	115-A: Organizational Skills Development- I				✓	Content in the course: • Unit Nos - 2 and 4
F.Y. B.Com-CBCS Semester-I	115-B: Banking and finance	✓				Content in the course: • Unit Nos - 2 and 3
F.Y. B.Com-CBCS Semester-I	116-A: Essentials of E-Commerce	✓				Content in the course: • Unit Nos - 2 and 4
F.Y. B.Com-CBCS Semester-I	116-D: Consumer Protection and Business Ethics	✓				Content in the course: • Unit Nos - 2, 4 and 5
F.Y. B.Com-CBCS Semester-I	116-C: Marketing & Salesmanship	✓				Content in the course: • Unit Nos - 1 and 3
F.Y. B.Com-CBCS Semester-I	116-E: Business Environment & Entrepreneurship – I				✓	Content in the course: • Unit Nos - 1, 2 and 4
F.Y. B.Com-CBCS Semester-I	121: Functional English-II			✓		Content in the course: • Poems highlight the concept of human values
F.Y. B.Com-CBCS Semester: II	122: Financial Accounting- II	✓			✓	Content in the course: • Unit Nos - 1 and 4
F.Y. B.Com-	123: Business	✓			✓	Content in the course:

CBCS Semester: II	Economics (Micro) -II					<ul style="list-style-type: none"> • Unit Nos - 1, 2 and 4
F.Y. BCom- CBCS Semester: II	124-A: Business Mathematics and Statistics – II	✓			✓	Content in the course: <ul style="list-style-type: none"> • Unit Nos - 1 and 3
F.Y. BCom- CBCS Semester: II	124-B: Computer Concepts and Application-II	✓				Content in the course: <ul style="list-style-type: none"> • Unit No – 4
F.Y. BCom- CBCS Semester: II	125-A: Organizational Skills Development- II	✓			✓	Content in the course: <ul style="list-style-type: none"> • Unit Nos - 1 and 2
F.Y. BCom- CBCS Semester: II	125-B: Banking and Finance- II	✓				Content in the course: <ul style="list-style-type: none"> • Unit Nos - 1, 2 and 3
F.Y. BCom- CBCS Semester: II	126-A: Essentials of Ecommerce-II	✓				Content in the course: <ul style="list-style-type: none"> • Unit Nos - 1, 2, 3 and 4
F.Y. BCom- CBCS Semester: II	126-D: Consumer Protection and Business Ethics- II	✓		✓	✓	Content in the course: <ul style="list-style-type: none"> • Unit Nos - 1, 2, 3 and 4
F.Y. BCom- CBCS Semester: II	126-C: Marketing & Salesmanship- II	✓		✓	✓	Content in the course: <ul style="list-style-type: none"> • Unit Nos - 1 , 2 and 3
F.Y. BCom- CBCS Semester: II	126-E: Business Environment & Entrepreneurs hip – II				✓	Content in the course: <ul style="list-style-type: none"> • Unit Nos - 1, 2 and 3
M.Com. Part I (2013) Semester I	101: Management Accounting	✓				Content in the course: <ul style="list-style-type: none"> • Unit Nos - 1, 3 and 6
M.Com. Part I (2013) Semester I	102: Strategic Management	✓			✓	Content in the course: <ul style="list-style-type: none"> • Unit Nos - 2, 3 and 4
M.Com. Part	103A:	✓			✓	Content in the course:

I (2013) Semester I	Advanced Accounting					<ul style="list-style-type: none"> • Unit Nos - 1, 4 and 5
M.Com. Part I (2013) Semester I	104A: Income Tax	✓				Content in the course: <ul style="list-style-type: none"> • Unit Nos - 1, 2, 3, 4, 5 and 6
M.Com. Part I (2013) Semester I	107C: Advanced Cost Accounting	✓				Content in the course: <ul style="list-style-type: none"> • Unit No - 2
M.Com. Part I (2013) Semester I	108C: Costing Technique and Responsibility Accounting	✓				Content in the course: <ul style="list-style-type: none"> • Unit No - 4
M.Com. Part I (2013) Semester I	114F: Financial Management	✓				Content in the course: <ul style="list-style-type: none"> • Unit Nos - 1 and 3
M.Com. Part I (2013) Semester II	201: Financial Analysis and Control				✓	Content in the course: <ul style="list-style-type: none"> • Unit Nos - 5 and 6
M.Com. Part I (2013) Semester II	202: Industrial Economics				✓	Content in the course: <ul style="list-style-type: none"> • Unit No - 1
M.Com. Part I (2013) Semester II	203A: Specialized Areas in Accounting	✓			✓	Content in the course: <ul style="list-style-type: none"> • Unit Nos - 4, 5 and 6
M.Com. Part I (2013) Semester II	204A: Business Tax Assessment & Planning				✓	Content in the course: <ul style="list-style-type: none"> • Unit Nos - 1 and 4
M.Com. Part I (2013) Semester II	207C: Application of Cost Accounting				✓	Content in the course: <ul style="list-style-type: none"> • Unit Nos - 1 and 4
M.Com. Part I (2013) Semester II	208C: Cost Control & Cost Systems	✓			✓	Content in the course: <ul style="list-style-type: none"> • Unit Nos - 1, 3 and 4
M.Com. Part I (2013) Semester II	213F: Business Ethics and Professional Values	✓	✓			Content in the course: <ul style="list-style-type: none"> • Unit Nos - 1, 2, 3 and 4
M.Com. Part I (2013)	214F: Elements of	✓				Content in the course: <ul style="list-style-type: none"> • Unit Nos - 3 and 4

Semester II	Knowledge Management					
M.Com. Part II (2013) Semester III	301: Business Finance	✓			✓	Content in the course: • Unit Nos - 1 and 3
M.Com. Part II (2013) Semester III	302: Research Methodology for Business	✓				Content in the course: • Unit No – 4
M.Com. Part II (2013) Semester III	303: Advanced Auditing	✓			✓	Content in the course: • Unit Nos - 1, 3, 4, 5 and 6
M.Com. Part II (2013) Semester III	304: Specialized Auditing	✓				Content in the course: • Unit Nos - 1, 2, 3, 4, 5 and 6
M.Com. Part II (2013) Semester III	307: Cost Audit	✓			✓	Content in the course: • Unit Nos - 1, 2 and 4
M.Com. Part II (2013) Semester III	308: Management Audit				✓	Content in the course: • Unit No – 4
M.Com. Part II (2013) Semester III	313: Human Resource Management				✓	Content in the course: • Unit No – 1
M.Com. Part II (2013) Semester III	314: Organizational Behaviour	✓				Content in the course: • Unit Nos - 1, 2, 3 and 4
M.Com. Part II (2013) Semester IV	401: Capital Market and Financial Services	✓			✓	Content in the course: • Unit Nos - 1, 2 and 4
M.Com. Part II (2013) Semester IV	402: Industrial Economic Environment				✓	Content in the course: • Unit Nos - 2, 3, 4 and 5
M.Com. Part II (2013) Semester IV	403: Recent Advances in Accounting, Taxation, and Auditing	✓			✓	Content in the course: • Unit Nos - 3, 5, 6, 20 and 23
M.Com. Part II (2013) Semester IV	407: Recent Advances in Cost Auditing and Cost	✓			✓	Content in the course: • Unit Nos - 1, 2, 3 and 5
M.Com. Part II (2013) Semester IV	413: Recent Advances in Business				✓	Content in the course: • Unit Nos - 1, 2 and 3

	Administratio n					
M.Com. Part I (2019) Semester I	101: Management Accounting	✓			✓	Content in the course: • Unit Nos - 1 and 2
M.Com. Part I (2019) Semester I	102: Strategic Management	✓			✓	Content in the course: • Unit nos - 2 and 4
M.Com. Part I (2019) Semester I	103A: Advanced Accounting	✓				Content in the course: • Unit no – 1
M.Com. Part I (2019) Semester I	104A: Income Tax	✓				Content in the course: • Unit nos - 1, 2, 3 and 4
M.Com. Part I (2019) Semester I	107C: Advanced Cost Accounting	✓			✓	Content in the course: • Unit Nos - 1 and 2
M.Com. Part I (2019) Semester I	108C: Costing Technique Examinations and Responsibility Accounting	✓			✓	Content in the course: • Unit Nos - 1 and 4
M.Com. Part I (2019) Semester I	113F: Production and Operation Management	✓			✓	Content in the course: • Unit Nos - 2 and 4
M.Com. Part I (2019) Semester I	114F: Financial Management				✓	Content in the course: • Unit No – 1
M.Com. Part I (2019) Semester II	201: Financial Analysis and Control	✓				Content in the course: • Unit Nos - 1, 3 and 4
M.Com. Part I (2019) Semester II	202: Industrial Economics				✓	Content in the course: • Unit Nos - 1 and 4
M.Com. Part I (2019) Semester II	203A: Specialized Areas in Accounting	✓			✓	Content in the course: • Unit Nos - 1, 2, 3 and 4
M.Com. Part I (2019) Semester II	204A: Business Tax Assessment &	✓				Content in the course: • Unit Nos - 1, 3 and 4

	Planning					
M.Com. Part I (2019) Semester II	207C: Application of Cost Accounting	✓			✓	Content in the course: <ul style="list-style-type: none"> • Unit Nos - 1 and 4
M.Com. Part I (2019) Semester II	208C: Cost Control & Cost System	✓			✓	Content in the course: <ul style="list-style-type: none"> • Unit No – 2
M.Com. Part I (2019) Semester II	213F: Business Ethics and Professional Values	✓			✓	Content in the course: <ul style="list-style-type: none"> • Unit Nos - 1, 2, 3 and 4
FY BBA Sem I	102: Business Communication Skills	✓	✓	✓		Content in the course: <ul style="list-style-type: none"> • The role of communication in personal and business world. • System and communication and their utility.
FY BBA Sem I	101: Principles of Management	✓			✓	Content in the course: <ul style="list-style-type: none"> • managerial skills
FY BBA Sem I	104: Business Economics (Micro)	✓	✓	✓	✓	Content in the course: <ul style="list-style-type: none"> • The role of economics as it influences society and business. • Decision making wrt price, demand and supply. • Monopoly, perfect competition, revenue, etc.
FY BBA Sem I	106: Business Demography	✓	✓	✓	✓	Content in the course: <ul style="list-style-type: none"> • Concept of demography in modern economic setup. • Population and structure changes affecting quality of life and business. • Concept regarding social economic process and urbanization and its impact on society.
FY BBA Sem II	201: Business Organization and System	✓		✓	✓	Content in the course: <ul style="list-style-type: none"> • Business environment. • Functioning of business institution in a given economic set up.

FY BBA Sem II	202: Principles of Marketing	✓	✓	✓	✓	Content in the course: <ul style="list-style-type: none"> • Marketing environment in the country. • Conceptual understanding to develop basic marketing concept • The profiles of change in technology, economic policy and demography of Indian market. • Green Marketing, Digital Marketing • Gender sensitization in terms of effects of Advertisements and Promotions
FY BBA Sem II	203: Principles of Finance	✓		✓		Content in the course: <ul style="list-style-type: none"> • Approach towards money, finance, and their role in business. • Sources of finance and their role and utility in business. • New and emerging trends in business finance
FY BBA Sem II	206: Fundamentals of Computers	✓			✓	Content in the course: <ul style="list-style-type: none"> • Concept of information and their role in modern businesses. • Use of computers in data process analysis in business. • Cautions to be taken security, safety and security while using net based service.
SY BBA Sem I	301: Personality Development	✓	✓	✓		Content in the course: <ul style="list-style-type: none"> • Global and cultural competencies • Appropriate behaviour in social and professional circles. • Various styles and qualities of leaders for effective leadership. • Social empathy and social responsibilities of the

						<p>individual.</p> <ul style="list-style-type: none"> • Workplace ethics.
SY BBA	302: Business Ethics	✓	✓	✓	✓	<p>Content in the course:</p> <ul style="list-style-type: none"> • Ethics in Business, Ethical dilemma, Morality, Values are inculcated through the course. • Ethics in Global Trade • Marketing ethics in foreign trade • IPR issues and dealing with them ethically • Corporate Ethics – ethical behavior and audit of ethical behavior.
TY BBA	503: Business Law	✓		✓	✓	<p>Content in the course:</p> <ul style="list-style-type: none"> • Laws related to business operations
TY BBA	506-B: Retail Management	✓				<p>Content in the course:</p> <ul style="list-style-type: none"> • Basic understanding of forces that shape retail industry
SY BBA-(CA)	305: Software Engineering	✓				<p>Content in the course:</p> <ul style="list-style-type: none"> • Ethical values during the phases of Software Development Life Cycle
SY BBA-(CA)	403: Computer Networking	✓				<p>Content in the course:</p> <ul style="list-style-type: none"> • Obligation to serve the interests of their employers and clients loyally, diligently and honestly; integrity of the network computing profession in general or the NPA program specifically.
FY BA Economics CBCS Sem I	11151: Indian Economic Environment	✓			✓	<p>Content in the course:</p> <ul style="list-style-type: none"> • Unit 1: Point - 1.2 • Unit 3: Point - 3.2
FY BA Economics CBCS Sem II	11152: Indian Economic Environment		✓	✓		<p>Content in the course:</p> <ul style="list-style-type: none"> • Unit 3: Points - 3.1 and 3.2

SYBA Economics	2158: Micro Economics	✓			✓	<ul style="list-style-type: none"> • Content in the course: • Unit 1: Point-1.3 • Unit 4
SYBA Economics	2159: Macro Economics	✓			✓	Content in the course: <ul style="list-style-type: none"> • Unit1: Point 1.2 • Unit 2 • Unit 3
TY BA Economics	3159: Public Finance	✓			✓	Content in the course: <ul style="list-style-type: none"> • Unit 1 • Unit 4
TY BA Economics	3158: International Economics	✓		✓	✓	Content in the course: <ul style="list-style-type: none"> • Unit 1: Point-1.3 • Unit4
M.A. Economics: Part I Semester I	EC-1001: Micro Economic Analysis I	✓	✓	✓	✓	Content in the course: <ul style="list-style-type: none"> • Chapters 2 & 4: Concepts of micro economics such as demand, supply, revenue, cost, elasticity • Basic theories/laws in economics- law of demand, law of supply, production function and microeconomic concepts, models and its use in real life situations.
M.A. Economics: Part I Semester I	EC-1002: Public Economics I	✓	✓			Content in the course: <ul style="list-style-type: none"> • Chapters 1, 2, 3 & 4: Changing role of the government and the fiscal functions of the modern governments • Concepts and theories in public economies like public policy, principles of taxation, theories of public expenditure and the various policies in public economics like fiscal policy, taxation policy, public debt policy, public expenditure policy

						and its use in real life situations.
M.A. Economics: Part I Semester I	EC-1003: International Trade	✓			✓	<p>Content in the course:</p> <ul style="list-style-type: none"> • Chapters 1 & 4: Theoretical concept in international trade, international economics with reference to terms of trade, trade policy, trade agreements • Recent developments and changes in international banking, international banking agreements and role of international economic organization and global crisis development
M.A. Economics: Part I Semester I	EC-1004: Agricultural Economics	✓	✓		✓	<p>Content in the course:</p> <ul style="list-style-type: none"> • Chapters 1, 3 & 5: Agricultural economics in the theoretical as well as practical context • Various issues and challenges faced by agrarian economies w.r.t. production, productivity, efficiency, employment, etc.
M.A. Economics: Part I Semester I	EC-1004: Statistical Techniques	✓				<p>Content in the course:</p> <ul style="list-style-type: none"> • Chapter 1: Statistics and its application under various topics under economics. • Practical and applied aspects of economics with the help of Statistical techniques.
M.A. Economics: Part I Semester II	EC-2001: Micro Economic Analysis II	✓		✓	✓	<p>Content in the course:</p> <ul style="list-style-type: none"> • Chapter 2: Principles of economics, micro economic concepts in various contexts and the basic theories in

						<p>microeconomics such as demand theory, production theory, market structures</p> <ul style="list-style-type: none"> • Modern developments in micro economics such as Game Theory.
M.A. Economics: Part I Semester II	EC-2002: Public Economics II	✓	✓	✓		<p>Content in the course:</p> <ul style="list-style-type: none"> • Unit 1: Point - 1.2: Various policies in public economics like fiscal policy, public debt policy, fiscal finances and the normative policies and compare it with the policies framed and followed by Indian economy • Reforms like taxation reforms in India.
M.A. Economics: Part I Semester II	EC-2003: International Finance	✓			✓	<p>Content in the course:</p> <ul style="list-style-type: none"> • Chapter 3: Theoretical concept in international finance - Balance of Payments, exchange rate policies, capital flows and the scenarios on international trade in India vis-à-vis the world economy, regarding recent developments • Changes in international banking, international banking agreements and the role of international economic organization and global crisis development.
M.A. Economics: Part I Semester II	EC-2004: Labour Economics	✓	✓	✓	✓	<p>Content in the course:</p> <ul style="list-style-type: none"> • Chapter 3 & 5: Labour economics in the theoretical as well as practical context • various issues and

						<p>challenges faced by labour with reference to division of labour, employment, wage determination</p> <ul style="list-style-type: none"> • Demonstration of various aspects of labour dynamics and labour relations w.r.t. India
M.A. Economics: Part I Semester II	EC-2004: Mathematical Economics	✓				<p>Content in the course:</p> <ul style="list-style-type: none"> • Chapter 1: Mathematics and its application under various topics under economics • Practical and the applied aspects of economics with the help of Mathematics.
M.A. Economics: Part- II, Semester- III	EC-3001: Macro Economics Analysis-I	✓			✓	<p>Content in the course:</p> <ul style="list-style-type: none"> • Chapter 2: Principles of macroeconomics and the application of macroeconomic concepts in real-life situations • Modern developments in macroeconomics.
M.A. Economics: Part- II, Semester- III	EC-3002: Growth & Development –I	✓	✓	✓	✓	<p>Content in the course:</p> <ul style="list-style-type: none"> • Chapters 1 & 3: Basic concepts and process to measure the growth, economic development and obstacles in the process of economic growth and development
M.A. Economics: Part- II, Semester- III	EC-3003: Research Methodology- I	✓		✓		<p>Content in the course:</p> <ul style="list-style-type: none"> • Chapter 1: Research and its methods under various areas of economics • Demonstration of the practical and the applied aspects of research in relation to Economics.

M.A. Economics: Part- II, Semester- III	EC-3004: Demography	✓	✓	✓	✓	Content in the course: <ul style="list-style-type: none"> • Chapter 3 & 4: Demography and its application under various topics under economics • Various aspects of Demography • Study of Population and its relation to Economics.
M.A. Economics: Part- II, Semester- IV	EC-4001 : Macro I Economics Analysis II	✓		✓	✓	Content in the course: <ul style="list-style-type: none"> • Chapters 3 & 4: Principles of macroeconomics and the application of macroeconomic concepts in various contexts • Modern developments in macroeconomics.
M.A. Economics: Part- II, Semester- IV	EC-4002: Growth & Development II	✓	✓	✓	✓	Content in the course: <ul style="list-style-type: none"> • Chapters 1 & 3: Basic concepts • Process to measure the growth, economic development and the obstacles in the process of economic growth and development
M.A. Economics: Part- II, Semester- IV	EC-4003: Research Methodology – II	✓				Content in the course: <ul style="list-style-type: none"> • Chapter 1: Research and its methods under various areas of economics • Various aspects of research in relation to Economics.
M.A. Economics: Part- II, Semester- IV	EC-4004: Economics of Environment	✓			✓	Content in the course: <ul style="list-style-type: none"> • Chapter 2 & 4: Economics of environment- various analytical tools to comprehend various environmental issues.
FY BA	1177:		✓			Content in the course:

History	Chhatrapati Shivaji & His Times					<ul style="list-style-type: none"> • Condition/life of women during the early Maratha period.
SY BA History	2177: Modern India 1857-1950		✓	✓		<p>Content in the course:</p> <ul style="list-style-type: none"> • Unit 3: Role of socio-religious reform movements in uplifting of the society. • Chapter 9: Role of women in the freedom struggle.
TY BA History	3177: History Of the World in the 20 th Century		✓	✓		<p>Content in the course:</p> <ul style="list-style-type: none"> • Unit 1 • 1.11: Concepts such as Feminism • 1.12: Concept of Humanism.
FY BA Political Science CBCS	11161 A: Introduction to Indian Constitution		✓	✓		<p>Content in the course:</p> <ul style="list-style-type: none"> • Unit-2: Fundamental Rights, Duties and Directive Principles of State Policy • Concept of equality (social, economic and political) of all human beings irrespective of gender, race, sex or religion
TY BA Political Science	3167: Political Ideologies.		✓			<p>Content in the course:</p> <ul style="list-style-type: none"> • Unit-8: Feminism: • Concept of Feminism in detail; equal rights of women - political, economic and social.
TY BA Political Science	3168: Public Administration	✓		✓		<p>Content in the course:</p> <ul style="list-style-type: none"> • Unit-8: Good Governance: basis of good governance: values • Capturing the interests of all stakeholders.
FYBA Sociology CBCS	11371 : Introduction to Sociology	✓	✓	✓		<p>Content in the course:</p> <ul style="list-style-type: none"> • Diversity and Unity in Indian Society. • Social Change in India through Globalization. • Eradication of poverty and development in India and globe. • Communalism and

						<p>communal violence.</p> <ul style="list-style-type: none"> • Displacement, Rehabilitation and Development. • Global issues and the ways to transform the issues towards the development of the society. • Socio-cultural and institutional basis of women's oppression – family, education, religion, economy, state and media.
SYBA Sociology	2377 : Population and Society	✓	✓	✓	✓	<p>Content in the course:</p> <ul style="list-style-type: none"> • Population growth, Population explosion and Environment human health and hygiene • Women in ancient India and Women empowerment • Population policies and Over population, under population – problems and their remedial measures. • Population, unemployment, vagrancy, youth unrest, drug addiction, crime and delinquency, corruption in public life, prostitution.
TYBA Sociology	3377: Work and Society	✓	✓	✓	✓	<p>Content in the course:</p> <ul style="list-style-type: none"> • Women, child labour, destitute, aged, disabled, bonded labour, scheduled tribes and castes. • Social welfare agencies including NGOs. • Meaning, Origin and development, scope and social security measures in India. • Types of Migration and pattern of rural settlement • Patriarchy and sexual division of labour. • Feminist movements and development of women's

						<p>history.</p> <ul style="list-style-type: none"> Sources of reconstruction of women's history
FY BA (Statistics) CBCS	ST- 13871 : Descriptive Statistics-I	✓				<p>Content in the course:</p> <ul style="list-style-type: none"> 1.3: Statistical organizations in India and their functions: CSO, ISI, NSS, IIPS (Devnar, Mumbai), Bureau of Economics and Statistics.
FY BA (Statistics) CBCS	ST- 13872 : Descriptive Statistics-II			✓		<p>Content in the course:</p> <ul style="list-style-type: none"> 4.2: Various types of Index Numbers like Human Development Index, Happiness Index BSE sensitivity Index
FY BSc (Statistics) 2013	ST – 111: Descriptive Statistics I	✓				<p>Content in the course:</p> <ul style="list-style-type: none"> 1.4: Statistical organizations in India and their functions: CSO, ISI, NSSO, IIPS (Devnar, Mumbai), Bureau of Economics and Statistics.
FY BSc (Statistics) 2013	ST - 121: Descriptive Statistics II			✓		<p>Content in the course:</p> <ul style="list-style-type: none"> 4.1: Introduction and scope of Index Numbers. Various types of Index Numbers like Human Development Index, Happiness Index BSE sensitivity Index.
FY BSc Physics CBCS	PHY-112: Major Core- Physics Principles and Applications				✓	<p>Content in the course:</p> <ul style="list-style-type: none"> Unit-5 Solar Cell: Requirement of green and sustainable energy source. Microwave Radiation: Environmental issues due to excessive use of microwave & radio wave radiations.
TY BSc Physics	PHY-364: Major Core- Nuclear Physics				✓	<p>Content in the course:</p> <ul style="list-style-type: none"> Unit-4: Nuclear Fission: Nuclear hazards in context of nuclear fission: Examples of Fukushima & Chernobyl environmental disaster
TY BSc	PHY-364:					<p>Content in the course:</p>

Physics	Major Core-Nuclear Physics		✓			<ul style="list-style-type: none"> • Unit-1: Radioactivity: Contribution of woman scientist Marie Curie in radioactivity.
TY BSc Physics	PHY-363: Major Core-Thermodynamics and Statistical Physics				✓	<p>Content in the course:</p> <ul style="list-style-type: none"> • Unit-1: Internal energy of gas: Greenhouse effect
TY BSc Physics	PHY-366: Major elective – Physics of Nanomaterials				✓	<p>Content in the course:</p> <ul style="list-style-type: none"> • Unit-2: Synthesis of nanomaterials: Green Synthesis of different materials. • Unit-5: Applications of Nanomaterials: Use of nanomaterial in energy conservation & waste management.
T.Y. B.Sc. Electronics (2015)	EL341: Advanced Communication Systems			✓	✓	<p>Content in the course:</p> <ul style="list-style-type: none"> • Unit – 4: Digital Communication: The advancement of communication systems - leading to sustainability and environmental advantages.
T.Y. B.Sc. Electronics (2015)	El-344: Foundation of Nanoelectronics			✓	✓	<p>Content in the course:</p> <ul style="list-style-type: none"> • Unit- 4: Nanoelectronics: unparalleled advancements in technology especially the medical field. • Gradual decline in the fear of health related ailments and precautions leading to human values getting affected. • Drawbacks of Nanoelectronics: indirectly affects the environment
TY BSc. Electronics (2015)	EL334: Principles of Semiconductors			✓	✓	<p>Content in the course:</p> <ul style="list-style-type: none"> • Unit – 1: Fundamentals of Semiconductors: Role of semiconductors in transforming our society -

	r devices					paradigm shift in the way of living affecting human lives, environment and sustainability.
TY BSc Electronics (2015)	EL331: Advanced Digital System Design			✓	✓	Content in the course: <ul style="list-style-type: none"> • Unit – 4: Case Study: The primary concern or objectives while designing advanced digital systems - cost and size reduction, and increase in speed and processing power. • Objectives which exist in our day to day human life and logics.
M.Sc.- I (Electronic Science) (2013)	EL1UT02: Analog Circuit Design			✓	✓	Content in the course: <ul style="list-style-type: none"> • Unit-1: Basic Semiconductor Devices: design solutions for complex engineering problems with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations
M.Sc.- I (Electronic Science) (2013)	EL1UT03: Digital System Design				✓	Content in the course: <ul style="list-style-type: none"> • Unit- 4: PLDs and Memories: principles of complex digital system design; different modelling levels and approaches to digital system design
M.Sc.- I (Electronic Science) (2013)	EL2UT05: Applied Electromagnetic, Microwaves and Antennas			✓	✓	Content in the course: <ul style="list-style-type: none"> • Unit-4: Electromagnetic Radiation: knowledge of microwaves and antennas; Future applications, like millimeter-wave 5G/beyond-5G wireless communications or automotive radar
M.Sc. II- (Electronic	ELDT04:			✓	✓	Content in the course: <ul style="list-style-type: none"> • Unit-1: Introduction to Mechatronics, Sensors and

Science) (2014)	Mechatronics					<p>Transducers: mechanical design to create intelligent systems.</p> <ul style="list-style-type: none"> • Development areas: transport, health, entertainment and service industries - benefiting from advances in the field.
M.Sc.- I (Electronic Science) (2019)	ELUT113: Digital System Design-				✓	<p>Content in the course:</p> <ul style="list-style-type: none"> • Unit – 4: PLDs and Memories: Principles of complex digital system design • Different modelling levels and approaches to digital system design
M.Sc.- I (Electronic Science) (2019)	ELUT121: Applied Electromagnetic, Microwaves and Antennas-			✓	✓	<p>Content in the course:</p> <ul style="list-style-type: none"> • Unit-1: Electromagnetic Waves: In-depth knowledge of microwaves and antennas. • Future applications, like millimeter-wave 5G/beyond-5G wireless communications or automotive radar
SY BSc (Computer Science) 2013	CS 232: Software Engineering	✓		✓	✓	<p>Content in the course:</p> <ul style="list-style-type: none"> • Ch. 3: 1. Follow ethical values during the phases of software product development life cycle • 2. To make sure that the end result meets the business and user requirements.
TY BSc (Computer Science) 2013	CS 333: Computer Networks - I	✓		✓		<p>Content in the course:</p> <ul style="list-style-type: none"> • Ch. Nos. 4, 5 and 6: Multiple layers of defences at the edge and in the network where malicious actors are blocked from carrying out exploits and threats imposing ethical values.

MSc Part I Sem I (Computer Science)	CS: 102: Advanced Networking	✓		✓		<p>Content in the course:</p> <ul style="list-style-type: none"> • Ch. Nos. 1, 2, 3: • types of networks, various topologies and application of networks. • types of addresses, data communication. • concept of networking models, protocols, functionality of each layer. • basic networking hardware and tools.
MSc (Computer Science)	Cyber Security	✓		✓		<p>Content in the course:</p> <ul style="list-style-type: none"> • Ch 1: Protection of internet-connected systems, including hardware, software and data, from cyber-attacks in order to protect information and other assets from cyber threats, which take many forms providing ethical values
MSc Part II, Sem III (Computer Science) 2013	CS: 301: Software Metrics & Project Management	✓		✓	✓	<p>Content in the course:</p> <ul style="list-style-type: none"> • Ch Nos: 5, 11: • Metrics - component of quality assurance, management, debugging, performance, and estimating costs • valuable for both developers and development team leaders. • use of software metrics to identify, prioritize, track and communicate any issues to foster better team productivity.
F.Y. B.Sc. (Mathematics) CBCS	MT-112: Calculus - II	✓				<p>Content in the course:</p> <ul style="list-style-type: none"> • Unit 4: solving real life problems using knowledge of derivatives and integrations.
S.Y. B.Sc. (Mathematics)	MT 211: Multivariable Calculus I	✓				<p>Content in the course:</p> <ul style="list-style-type: none"> • Unit-3: finding extreme

						<p>values of functions of two variables in application.</p> <ul style="list-style-type: none"> • Unit-4: calculate area and volume of object using multiple integrations.
S.Y. B.Sc. (Mathematics)	MT 212 (B): Laplace Transform & Fourier Series	✓			✓	<p>Content in the course:</p> <ul style="list-style-type: none"> • Unit 4: Laplace Transform & Fourier series and its applications
S.Y. B.Sc. (Mathematics)	MT 222 (B): Numerical Methods and its Applications	✓			✓	<p>Content in the course:</p> <ul style="list-style-type: none"> • Unit 1: Solving algebraic and transcendental equations by using different numerical methods. • Unit 2: interpolation formulae and applying them to interpolate the given data. • Unit 3: differentiate and integrate by different numerical methods. • Unit 4: Solving ODE by various numerical methods.
S.Y. B.Sc (Computer Science: Mathematics)	MTC-211: Applied Algebra	✓				<p>Content in the course:</p> <ul style="list-style-type: none"> • Unit 4: coding theory and its application.
S.Y. B.Sc (Computer Science: Mathematics)	MTC-221 : Computational Geometry	✓				<p>Content in the course:</p> <ul style="list-style-type: none"> • Unit 1: transformation of two dimensional and three dimensional objects by using different specified transformation matrix. • Unit 3: types of 3-D projection. • Unit 4: plotting 2D and 3D curves.
T.Y. B.Sc (Mathematics)	MT 337A: Operations Research	✓	✓	✓	✓	<p>Content in the course:</p> <ul style="list-style-type: none"> • Unit 1: formulate different life problems into LPP and solve them by using graphical method and simplex method. • Unit 4: solve and optimize transportation problems.

T.Y. B.Sc (Mathematics)	MT 347D : Graph theory				✓	Content in the course: <ul style="list-style-type: none"> • Unit 2: demonstrate trees and connectivity; solve connector and shortest path problems • Unit 3: solve Chinese postman and travelling salesman problems.
T.Y.B.Sc. (Chemistry) Semester-III	CH-331: Physical Chemistry-I	✓ -			✓	Content in the course: <ul style="list-style-type: none"> • Chapter 2: monitor the progress of reactions using various spectroscopic techniques in real time. • spectroscopic techniques- result faster, saving the energy requirements leading to the better utilization of the natural resources.
T.Y. B.Sc. (Chemistry) Semester-III	CH-334: Analytical Chemistry	✓			✓	Content in the course: <ul style="list-style-type: none"> • Ch 5. Atomic Absorption Spectroscopy & 6. Flame emission spectroscopy: Instrumental methods of analysis for identification of food adulterants; establishing a health security through food & drug control agencies
T.Y. B.Sc. (Chemistry) Semester-IV	CH-344: Analytical Chemistry	✓			✓	Content in the course: <ul style="list-style-type: none"> • Ch 3. Gas Chromatography and Ch 4. HPLC : • Various instrumental techniques in analytical chemistry enabling to identify the poisons, explosives & other suspicious substances in criminal cases & serve for the purpose of administration of criminal justice system.
TY BSc (Chemistry) Semester III	CH-335: Industrial Chemistry	✓			✓	Content in the course: <ul style="list-style-type: none"> • Ch 3: Manufacture of Basic Chemicals and Ch 5. Food and Starch Industry: • Industrial aspects,

						manufacture of chemicals, techniques of food preservation etc, its ethical arena.
TY BSc (Chemistry) Semester III	CH-336D : Environmental Chemistry	✓			✓	<p>Content in the course:</p> <ul style="list-style-type: none"> • Ch 5: Green Chemistry and Technology for sustainable development & Ch 6. Green Chemistry and Hazardous Organic Solvents: • principles of green chemistry taking a diversion from conventional synthetic protocols leading to a sustainable development. • Chapter 2. Atmosphere and Air Pollution: Global problems related with water pollution, air pollution & soil pollution; possible routes of minimizing the level of pollution & alternate approaches.
TY BSc (Chemistry) Semester IV	CH-346D : Environmental Chemistry	✓			✓	<p>Content in the course:</p> <ul style="list-style-type: none"> • Chapter 1: Water treatment and effluent management: Global problems related with water pollution, air pollution & soil pollution; minimizing the level of pollution
M Sc (Organic Chemistry) Part I	CHP-110 Physical Chemistry-I (Fundamentals of Physical Chemistry)	✓			✓	<p>Content in the course:</p> <ul style="list-style-type: none"> • Section I, Chapter 1: concept of spontaneous processes and efficiency of heat engines - idea of building of energy efficient and environmental friendly machines. • Section II, Chapter 1: Concept of increasing the kinetics of reactions using catalysts thus increasing the yield and the energy requirements of the process.

M Sc (Organic Chemistry) Part I	CHI-130: Inorganic Chemistry-I (Molecular Symmetry and Chemistry of Main Group Elements)	✓			✓	<p>Content in the course:</p> <ul style="list-style-type: none"> • Section I : Visualization and imagination of molecules in three dimensions to understand the specific activity at elementary level; Concept and point group • Section II: Detail idea of chemistry of s--block and p-block elements w.r.t. their compounds, their reactions and applications; advance chemistry of boranes, fullerene, zeolites, polymers etc.
M Sc (Organic Chemistry) Part I	CHI- 230: Inorganic Chemistry-II (Coordination & Bioinorganic Chemistry)	✓			✓	<p>Content in the course:</p> <ul style="list-style-type: none"> • SECTION-I : Understanding of microstates and meaningful term symbols, construction of microstate table for various configuration; Application of Hund's rules energy levels; Electronic transitions, charge transfer. Correlations diagram for various configurations and mixing of orbitals in the complexes; Concept of magnetism and their temperature dependence. • Section-II: Significance of bioinorganic chemistry through the discussion of the role of metals in Metalloprotein and metalloenzymes in the life processes; Mechanism of transportation of different vital metals ions.
MSc (Organic Chemistry) Part I	CHG – 190, General Chemistry-I	✓			✓	<p>Content in the course:</p> <ul style="list-style-type: none"> • Section I: Chapter-1: Fundamental concepts in Chemical Biology and methods of chemistry used

						<p>to solve problems in molecular and cell biology.</p> <ul style="list-style-type: none"> • Chapter 2: Chemistry of Biomembranes including cell organelles. • Chapter-3: Discussion of Classification, Structure and Properties of carbohydrates. • Chapter 4: Discussion of classification, Structure and Properties of lipids etc. • Chapter 5: description of chemical basis for replication, transcription, translation and how each of these central processes can be expanded to include new chemical matter. • Section II: Practical based on analysis of Alloys and minerals, • Synthesis of solid state materials, Colloidal silver nanoparticles etc and their studies through XRD, SEM, TEM techniques.
MSc (Organic Chemistry) Part II	CHO-351: Spectroscopic Methods in Structure Determination	✓		✓	✓	<p>Content in the course:</p> <ul style="list-style-type: none"> • Application of spectroscopic techniques in the field of research and development. • importance of these in establishment of structure of the synthesized molecules with potent biological properties. • Application of instrumentation for the structure determination - reduced the usage of chemicals hence pollution (air, water) is minimized to a great extent which results in the control of the threats of climate change.
MSc	CHO-352:	✓			✓	Content in the course:

(Organic Chemistry) Part II	Organic Stereochemistry					<ul style="list-style-type: none"> • Stereochemistry: role in understanding the role of proteins, peptides and other biomolecules. • understand the different functions of stereoisomers in the biological as well as non-biological system.
MSc (Organic Chemistry) Part II	CHO-353: Pericyclic Reactions, Photochemistry & Heterocyclic Chemistry	✓			✓	<p>Content in the course:</p> <ul style="list-style-type: none"> • Various heterocycles with applications in pharmaceutical industries & material sciences • Convenient & ecofriendly protocols for their synthesis and designing the molecules with potent properties & diverse applications
MSc (Organic Chemistry) Part II	CHO-450 Natural Products	✓		✓	✓	<p>Content in the course:</p> <ul style="list-style-type: none"> • Various reagents involved in the Synthesis of natural products such as Taxol, Estrone and Mifepristone, Terpenoids and alkaloids
MSc (Organic Chemistry) Part II	CHO-451: Advanced Synthetic Organic Chemistry			✓		<p>Content in the course:</p> <ul style="list-style-type: none"> • Metathesis concepts and olefin synthesis by different routes • Multicomponent reactions and cyclization reactions
MSc (Organic Chemistry) Part II	CHO - 452: Carbohydrate and Chiron approach, Chiral Drugs and Medicinal Chemistry			✓		<p>Content in the course:</p> <ul style="list-style-type: none"> • Carbohydrates: Introduction of sugars, structures of triose, tetrose, pentose, hexose, stereochemistry and reactions of Glucose, conformation and anomeric effects in hexoses. • Chiron approach: concept of chiral templates and chirons; Retrosynthetic approaches • Chiral Drugs: Introduction of chiral drugs, Eutomer, Distomer and eudesmic

						<p>ratio, etc.; syntheses of few important drugs</p> <ul style="list-style-type: none"> • Medicinal Chemistry: Introduction to drugs, their action and discovery including Structure, activity and quantitative relationship; discussion of antimicrobial drugs such as Penicillin, Cephalosporin, Sulphones and sulphonamides, Tetracycline, Macrolides, Polypeptides, Chloromycetin
MSc (Organic Chemistry) Part II	CHO-453: Designing Organic Syntheses & Asymmetric Synthesis			✓		<p>Content in the course:</p> <ul style="list-style-type: none"> • Designing of organic synthesis • Protection and de-protection of various functional groups discussed. • Principles and applications of asymmetric synthesis including stereoselectivity in cyclic compounds, enantio-selectivity, diastereo-selectivity, etc; important rules such as Cram's rule, Felkin Anh rule, Cram's chelate model.
FY BSc (Botany) Term I; 2013	BO 111: Plant Morphology & Anatomy			✓	✓	<p>Content in the course:</p> <ul style="list-style-type: none"> • Ch 1: Phylogeny & plant breeding • Ch 2: Anatomy: importance in taxonomy, ecological interpretations, pharmacognosy & wood identification
FY BSc (Botany) Term I; 2013	BO 112: Industrial Botany	✓			✓	<p>Content in the course:</p> <ul style="list-style-type: none"> • All units: Uses of plants as fibre, food, timber, etc.
FY BSc (Botany) Semester I; CBCS	BO 111: Plant Life & Utilization-I			✓	✓	<p>Content in the course:</p> <ul style="list-style-type: none"> • Ch 2: Utilization of algae in biofuel industry, agriculture, pharmaceuticals, food &

						<p>fodder</p> <ul style="list-style-type: none"> • Ch 3: Utilization of lichens • Ch 4: Utilization of fungi industry, agriculture, food & pharmaceuticals • Ch 5: Utilization of Bryophytes as ecological indicators, agriculture, fuel, industry & medicine
FY BSc (Botany) Semester II; CBCS	BO 121: Plant Life & Utilization-II	✓		✓	✓	<p>Content in the course:</p> <ul style="list-style-type: none"> • Credit I: 3. Utilization & economic importance of pteridophytes • Credit II: 1. Utilization & economic importance of gymnosperms • Credit II: 3. Utilization & economic importance of angiosperms in food, fodder, fibres, horticulture & medicines
FY BSc (Botany) Semester II; CBCS	BO 122: Principles of Plant Sciences				✓	<p>Content in the course:</p> <ul style="list-style-type: none"> • Ch 9: Cell cycle in plants.
SY BSc (Botany) Semester I, 2014	BO-211: Taxonomy of Angiosperms & Plant Community				✓	<p>Content in the course:</p> <ul style="list-style-type: none"> • Ch 3: Taxonomic literature • Ch 5: Botanical Nomenclature • Ch 8: Introduction to ecology • Ch 9: Ecological grouping of plants
SY BSc (Botany) Semester I, 2014	BO-212: Plant Physiology,	✓			✓	<p>Content in the course:</p> <ul style="list-style-type: none"> • Ch 7: Nitrogen metabolism: symbiotic & non symbiotic nitrogen fixation
SY BSc (Botany) Semester II, 2014	BO-221: Plant anatomy & Embryology	✓			✓	<p>Content in the course:</p> <ul style="list-style-type: none"> • Ch 3: Mechanical Tissue System: • Ch 11: Fertilization: Mechanism of pollination – entomophily, anemophily, hydrophily, zoophily and significance of fertilization

SY BSc (Botany) Semester II, 2014	BO-222: Plant Biotechnology	✓		✓	✓	Content in the course: <ul style="list-style-type: none"> • 5.1: Introduction • 5.2: Phytoremediation- definition & concept • 5.3: Methods of phytoremediation • 5.4: Environmental sustainability
TY BSc (Botany) Semester III, 2015	BO. 331: Cryptogamic Botany	✓			✓	Content in the course: <ul style="list-style-type: none"> • Ch 2: Algae: economic importance • Ch 4: Fungi: economic importance • Ch 6: Bryophytes: economic importance • Ch 8: Pteridophytes: economic importance
TY BSc (Botany) Semester III, 2015	BO. 333: Genetics & Evolution	✓	✓	✓	✓	Content in the course: <ul style="list-style-type: none"> • Ch 6: Quantitative & cytoplasmic inheritance • Ch 7: Sex linked inheritance • Ch 8: Euploidy & aneuploidy • Ch 12: Population genetics & evolution
TY BSc (Botany) Semester III, 2015	BO. 334: Spermatophyt a & Paleobotany				✓	Content in the course: <ul style="list-style-type: none"> • Unit 4: Plant Identification: Plant authentication • Unit 2: Fossil: process of fossil formation, types of fossils
TY BSc (Botany) Semester III, 2015	BO. 336: Computational Botany				✓	Content in the course: <ul style="list-style-type: none"> • All Units: Analysis of data on vegetation studies: frequency, density, dominance, abundance, computation of crop/vegetation biomass using satellite data (SR, RVI, DVI, NDVI)
TY BSc (Botany) Semester III, 2015	BO. 335: Horticulture & Floriculture	✓				Content in the course: <ul style="list-style-type: none"> • All units: Scope of horticulture & floriculture, Indian market of cut flowers

TY BSc (Botany) Semester IV, 2015	BO.343: Plant Pathology	✓		✓	✓	Content in the course: <ul style="list-style-type: none"> • Ch 11: Principles of Plant disease control • Ch 12: Molecular diagnostics & transgenics in crop protection
TY BSc (Botany) Semester IV, 2015	BO.345: Plant Biotechnology	✓			✓	Content in the course: <ul style="list-style-type: none"> • Introduction to Biotechnology: Biotechnology global impact & current excitements of plant biotechnology-plant health care & plant protection • Biotechnology of Biological nitrogen fixation: diazotrophs & their ecology • Nif gene biofertilizers-algal, fungal, phosphate solubilising & organic fertilizers • Biotechnology & Society: GM foods & its safety, recombinant foods & religious beliefs, recombinant therapeutic product for human health care, Intellectual Property Rights
TY BSc (Botany) Semester IV, 2015	BO.344: Medicinal & Economic Botany	✓		✓	✓	Content in the course: <ul style="list-style-type: none"> • Ch 6: Applied Medicinal Botany: • Ch 6.1: Study of drugs with respect to biological source, geographical distribution, common varieties • Ch 6.3: Concept, definition & introduction to biopharmaceutics, pharmacodynamics & clinical pharmacokinetics with applications • Ch 7: Ethnobotany • Ch 1: Economic Botany:
TY BSc (Botany)	BO.342: Plant Ecology &	✓		✓	✓	Content in the course: <ul style="list-style-type: none"> • Ecology

Semester IV, 2015	Biodiversity					<ul style="list-style-type: none"> • Environmental Crisis: • EIA: process, objectives • Environmental audit • Ecology & economics • Introduction to biodiversity • Ch 3: Biodiversity Loss • Ch 4: Inventorying & monitoring of Biodiversity • Ch 5: Conservation of Biodiversity
TY BSc (Botany) Semester IV, 2015	BO.346: Plant Breeding & Seed Technology	✓		✓	✓	<p>Content in the course:</p> <ul style="list-style-type: none"> • Breeding for stress tolerance, mutation breeding • Seed Processing, Certification, sampling, testing & marketing
FY BSc (Geology) CBCS	GL 112T: Physical Geology				✓	<p>Content in the course:</p> <ul style="list-style-type: none"> • Unit 1.B: Origin of our solar system and planets, including earth. • Unit 1.B.c: Geological time scale and dynamics of earth evolution through time. • Unit 2.A: Air circulation, weather and climate changes, land-air-sea interactions, global climatic changes and its impact on human civilization. • Unit 4: Importance of disaster management.
FY BSc (Geology) CBCS	GL 111T: Mineralogy				✓	<p>Content in the course:</p> <ul style="list-style-type: none"> • Unit 1: Importance and conservation of minerals, ore minerals and natural resources.
FY BSc (Geology) CBCS	GL 121T: Petrology and Structural Geology				✓	<p>Content in the course:</p> <ul style="list-style-type: none"> • Unit 1: Rock cycle.
FY BSc (Geology) CBCS	GL 122T: Palaeontology				✓	<p>Content in the course:</p> <ul style="list-style-type: none"> • Unit 1 & Unit 2: Importance and development of life.
SY BSc	GL 211T:				✓	<p>Content in the course:</p>

(Geology)	Petrology					<ul style="list-style-type: none"> • All Units: Different environment for different rocks
SY BSc (Geology)	GL – 212T: Structural Geology				✓	Content in the course: <ul style="list-style-type: none"> • All Units: Deformation.
SY BSc (Geology)	GL – 221: Stratigraphy and Palaeontology				✓	Content in the course: <ul style="list-style-type: none"> • Unit 2: Stratification. • Unit 3 and Unit 4: Organic evolution.
TY BSc (Geology)	GL-331 : Mineralogy				✓	Content in the course: <ul style="list-style-type: none"> • Entire course: Importance and conservation of minerals, ore minerals and natural resources.
TY BSc (Geology)	GL 332 - Igneous Petrology				✓	Content in the course: <ul style="list-style-type: none"> • Entire course: Processes involved in the formation of igneous rocks and their importance in obtaining economically explore to boost the economy.
TY BSc (Geology)	GL – 333: Sedimentary Petrology				✓	Content in the course: <ul style="list-style-type: none"> • Entire course: Processes involved in the formation of sedimentary rocks and their importance in obtaining economically explore to boost the economy.
TY BSc (Geology)	GL 334: Structural Geology				✓	Content in the course: <ul style="list-style-type: none"> • Entire course: Use of structures to help students appreciate the dynamic nature of the Earth's lithosphere • Importance of geologic maps, read structural problems in mining operations in exploring economic minerals and ore minerals.
TY BSc (Geology)	GL – 335: Precambrian Stratigraphy of India				✓	Content in the course: <ul style="list-style-type: none"> • Entire course: Different geological formations, their age and economic potential. • Correlate International

						Geological Time Scale with Indian Stratigraphic Time Scale.
TY BSc (Geology)	GL: 336- Applied Geology I				✓	<p>Content in the course:</p> <ul style="list-style-type: none"> • Entire course: Surveying instruments and methods. • Application of Geophysics and use of GPS in mapping the subsurface. • Geophysical techniques (seismic, gravity, magnetic and electrical resistivity methods) and their various applications in exploration and exploitation of mineral resources and water resources..
TY BSc (Geology)	GL – 341: Metamorphic Petrology				✓	<p>Content in the course:</p> <ul style="list-style-type: none"> • Entire course: Processes involved in the formation of metamorphic rocks and their importance
TY BSc (Geology)	GL-342: Environmental Geology				✓	<p>Content in the course:</p> <ul style="list-style-type: none"> • Entire course: Nature and scope of environment studies. • Need of public awareness. • Analyse the problems of natural resources. • Study of types and characteristics of Disasters. • Effects and control measures of pollution. • Human role in prevention of pollution. • Analyse disaster related to pollution. • Study the environmental problems.
TY BSc (Geology)	GL-343 : Economic Geology				✓	<p>Content in the course:</p> <ul style="list-style-type: none"> • Entire course: Importance and conservation of minerals, ore minerals and natural resources. • Environmental and social

						issues related to mineral resource extraction
TY BSc (Geology)	GL: 344-Geotectonics				✓	<p>Content in the course:</p> <ul style="list-style-type: none"> • Entire course: Dynamic nature of the Earth processes. • Geodynamics of the lithosphere and concept of isostasy, ocean floor spreading, continental drift, plate tectonics.
TY BSc (Geology)	GL – 345: Phanerozoic Stratigraphy of India and Palaeontology				✓	<p>Content in the course:</p> <ul style="list-style-type: none"> • Entire course: Different geological formations, their age and economic potential. • Correlate International Geological Time Scale with Indian Stratigraphic Time Scale.
TY BSc (Geology)	GL: 346- Applied Geology II (Engineering Geology, Geohydrology & Prospecting)				✓	<p>Content in the course:</p> <ul style="list-style-type: none"> • Entire course: Importance of geological studies and its applicability to various engineering problems. • Basics of engineering geology to be able to anticipate the technical problems related to geology of various engineering sites; remedial measures. • Geological site investigations for engineering structures, skills in geological mapping, making geotechnical measurements. • Hydrogeological concepts, its exploration, its exploitation and recharge of groundwater and methods of monitoring groundwater quality and sources of pollution.
F.Y. B.Sc. (Zoology) 2013	ZY-101: Animal Systematics &				✓	<p>Content in the course:</p> <ul style="list-style-type: none"> • Unit 1: Hierarchy of animal group, their environment and

	Diversity-I					conservation strategies.
F.Y. B.Sc (Zoology) CBCS.	ZO-111: Animal Diversity-I				✓	Content in the course: • Unit 1: Hierarchy of animal group, their environment and conservation strategies.
F.Y. B.Sc (Zoology) CBCS.	ZO-112: Animal Ecology				✓	Content in the course: • Unit 1: Ecosystem • Unit 5: Animal interaction
S.Y. B.Sc (Zoology)	ZY-212: Applied Zoology-I	✓				Content in the course: • Unit 1: Standard protocol to rear fish in artificial ponds with proper care of their food and nutrition. • Unit 2: Use of chemical pesticides to control agricultural pests and Integrated Pest Management (IPM) to reduce use of chemical pesticides.
S.Y. B.Sc (Zoology)	ZY-222: Applied Zoology-II	✓			✓	Content in the course: • Unit 1: Standards for the Apiary Management & Production of Beekeeping Products • Unit 2: The standard norms to produce silk with proper care and disease management of silkworms
T.Y. B.Sc. (Zoology)	ZY-334: Environmental Biology & Toxicology				✓	Content in the course: • Unit 2: Ecosystem • Unit 3: pollution • Unit 4: environmental development • Unit 5: natural resources and conservation • Unit 6: wildlife management • Unit 7: Toxicants & Toxicity • Unit 8: toxicants of public health and hazards.
T.Y. B.Sc. (Zoology)	ZY-341: Biological Techniques	✓				Content in the course: • Unit 2.1: Undertaking biomedical parameters with standard laboratory protocols
T.Y. B.Sc.	ZY-343:				✓	Content in the course:

(Zoology)	Genetics & Molecular Biology					<ul style="list-style-type: none"> • Unit 2: gene mutation • Unit 3: Population genetics • Unit 7: application of Recombinant DNA technology
T.Y. B.Sc. (Zoology)	ZY-344: Organic evolution				✓	Content in the course: <ul style="list-style-type: none"> • Unit 3: Evolution • Unit 7: Distribution of different animal species and adaptation according the surrounding environment. • Unit 9: Zoogeographical Realms
T.Y. B.Sc. (Zoology)	ZY-346: Public Health & Hygiene			✓		Content in the course: <ul style="list-style-type: none"> • Unit 7: Sanitation, • Unit 8: Management of human communicable disease • Unit 11: Hygiene
T.Y. B.Sc. (Zoology)	ZY-345: General Embryology		✓			Content in the course: <ul style="list-style-type: none"> • Unit 3: Structure and function of Male & Female reproductive system.
M.Sc Part I (Zoology) 2013	ZY-105T: Skills in Scientific Communication Writing English in Scientific Communication	✓				Content in the course: <ul style="list-style-type: none"> • Unit 1: Professional skills of Scientific Reading, Listening, Scientific Writing • Unit 4: Information Representation, and Knowledge Presentation
M.Sc (Zoology) Part I, 2013	ZY-103T: Genetics	✓			✓	Content in the course: <ul style="list-style-type: none"> • Unit 5: Population genetics • Unit 7: Application of somatic cell genetics • Unit 8: gene mutation
M.Sc (Zoology) Part I, 2013	ZY-203T: Developmental Biology		✓			Content in the course: <ul style="list-style-type: none"> • Unit 2: Structural and functional dissimilarities of Male & Female reproductive system.
M.Sc (Zoology) Part I, 2013	ZY-204T: Endocrinology		✓			Content in the course: <ul style="list-style-type: none"> • Unit 4: Physiological difference between male and female sex hormone.
M.Sc (Zoology)	ZY 406T: Apiculture	✓				Content in the course: <ul style="list-style-type: none"> • Unit 2: Bee keeping as an

Part II						<p>occupation</p> <ul style="list-style-type: none"> • Unit 3: Purchase of a colony, the Apiary site, how to manage a colony, the manipulation of a colony, taking care of bee diseases and enemies. • Unit 4: Beekeeping techniques and Apiary management
M.Sc (Zoology) Part II	ZY 303T: Aquaculture	✓				<p>Content in the course:</p> <ul style="list-style-type: none"> • Unit 2: Composite fish culture • Unit 3: Preparation and management of fish culture ponds • Unit 7: Fresh water prawn culture. • Unit 8: Pearl culture
M.Sc (Zoology) Part II, 2014	ZY 301T: Animal Physiology I				✓	<p>Content in the course:</p> <ul style="list-style-type: none"> • Unit 3: External & internal environment and adaptability.
M.Sc (Zoology) Part II, 2014	ZY 302T: Immunology	✓				<p>Content in the course:</p> <ul style="list-style-type: none"> • Unit 6: Study of immunological parameters with standard procedure. • Unit 8: Immunological Techniques
M.Sc (Zoology) Part II, 2014	ZY 306T: Parasitology	✓			✓	<p>Content in the course:</p> <ul style="list-style-type: none"> • Unit 4: Diagnostic study of parasites. • Unit 5: Parasite control
M.Sc (Zoology) Part II, 2014	ZY 309T: Toxicology I	✓			✓	<p>Content in the course:</p> <ul style="list-style-type: none"> • Unit 2: Toxic agents and their mode of action • Unit 3: Xenobiotics • Unit 4: Pesticide Toxicity • Unit 5: Heavy Metal Toxicity • Unit 6: Evaluation of toxicity • Unit 8: Toxicity of toxicants on environment • Unit 7: Maintenance and general handling of animals for toxicological laboratory
M.Sc (Zoology) Part II, 2014	ZY 402T: Economic Zoology	✓				<p>Content in the course:</p> <ul style="list-style-type: none"> • Unit 2: Sponge culture and its importance in industry. • Unit 6: Vermiculture industry

						<p>in India.</p> <ul style="list-style-type: none"> • Unit 7: Apiculture, Lac culture, Sericulture, Prawn culture • Unit 9: Poultry, Piggery, Dairy industry and wool industry
M.Sc (Zoology) Part II, 2014	ZY 403T: Mammalian Reproductive Physiology		✓		✓	<p>Content in the course:</p> <ul style="list-style-type: none"> • Unit 3: Issue related to puberty, Issue related to sexual cycle • Unit 5: Issue related to pregnancy. • Unit 9: Artificial control of pregnancy, environmental factors and breeding
M.Sc (Zoology) Part II, 2014	ZY 405T: Pollution Biology				✓	<p>Content in the course:</p> <ul style="list-style-type: none"> • Unit 2: Kinds of pollution and pollutants • Unit 3: Noise pollution • Unit 4: Pesticide pollution • Unit 5: Radioactive pollution • Unit 6: pollutant bioassay using fish • Unit 7: Measurement of different kinds of pollution. • Unit 9: Bioconcentration, Bioaccumulation and Biomagnifications of pollutants. Causes and Consequences. • Unit 11: Disposal of biomedical wastes.
M.Sc (Zoology) Part II, 2014	ZY 408T: Toxicology II	✓			✓	<p>Content in the course:</p> <ul style="list-style-type: none"> • Unit 6: CPCSEA guiltiness to prevent animal cruelty. • Unit 5: Lab Safety, Disposal of Biomedical wastes
M.Sc (Zoology) Part I, 2019	ZODT 114: Fresh Water Zoology				✓	<p>Content in the course:</p> <ul style="list-style-type: none"> • Unit 2: Fresh water environment and related issue • Unit 10: Biological changes in freshwater due to sewage pollution
M.Sc (Zoology)	ZOUT 113: Comparative				✓	<p>Content in the course:</p> <ul style="list-style-type: none"> • Unit 4: Adaptive radiation in

Part I, 2019	Animal Physiology and Environmental Biology.					different animals on the basis of surrounding environment. • Unit 6: Thermoregulation
M.Sc (Zoology) Part I, 2019	ZOUT 111: Biochemistry & Biochemical Techniques	✓				Content in the course: • Unit 7: Study of DNA & Protein sequencing with standard protocols
M.Sc (Zoology) Part I, 2019	ZOUT 112: Cell Biology & Developmental Biology		✓			Content in the course: • Unit 3: Structural and functional dissimilarities of Male & Female reproductive system.
M.Sc (Zoology) Part I, 2019	ZOUT 113: Genetics and English in Scientific Communication	✓			✓	Content in the course: • Unit 1: Professional skills of Scientific Reading, Listening, Scientific Writing • Unit 5: Information representation, and Knowledge Presentation • Unit 6: Population genetics, • Unit 7: application of Somatic Cell technology • Unit 10: gene mutation
M.Sc (Zoology) Part I, 2019	ZOUT 121: Molecular Biology & Bioinformatics	✓				Content in the course: • Unit 2: Production and storage of biological database
M.Sc (Zoology) Part I, 2019	ZOUT 122: Endocrinology & Parasitology	✓	✓			Content in the course: • Unit 4: Physiological difference between male and female sex hormone. • Unit 4: Diagnostic study of parasites. • Unit 5 : Parasite control
SY – UG (BA, BCom, BSc, BBA & BBA_CA)	Ability enhancement compulsory course- Environment studies	✓	✓	✓	✓	Content in the course: • Forest Resources, Water Resources, Mineral Resources & land resources. • Role of an individual in conservation of natural resources. • Equitable use of resources

						<p>for sustainable lifestyles.</p> <ul style="list-style-type: none"> • Value of biodiversity, Hotspots of biodiversity, Threats to biodiversity, Endangered and endemic species and conservation of biodiversity. • Air, water, soil, noise, thermal pollution, and nuclear hazards. • Solid waste management and Role of an individual in prevention of pollution and Disaster management. • Role of information technology in environment. • Man and environment
PG Part-I (M.Sc Zoology, MSc Computer Science, MSc Chemistry, MSc Electronics, M.Com, M.A English, MA Economics & MA Urdu	Human Rights – I & II	✓	✓	✓	✓	<p>Content in the course:</p> <ul style="list-style-type: none"> • Human Values • Significance of values • Dignity • Liberty • Equality • Justice • Ethics and Morals • Unity in Diversity • Significance of Human Rights Education • Meaning of Vulnerable and Disadvantage Groups • Human rights and Women’s Rights • World Conference on Women Rights • National Policy for Women • National Commission for Women • UN Framework for Human Rights • Environment Protection provisions in Directive Principles and Fundamental Duties in Indian Constitution.