

1.3.1 List of courses focusing on human values, Gender equality, environment sustainability and professional ethics.

Human values

Sl. No.	Stream	Course	Content
1.	BA	Indian Economy	<ul style="list-style-type: none"> Health sector reforms
2.	BA/ BSc	Foundations of Psychology I	<ul style="list-style-type: none"> Humanistic Perspective
3.	BA/ BSc	Foundations of Psychology II	<ul style="list-style-type: none"> Maslow's self-actualization
4.	BA/ BSc	Abnormal Psychology Paper V	<ul style="list-style-type: none"> Psychological models of abnormality
5.	BA/ BSc	Industrial Psychology Paper VI	<ul style="list-style-type: none"> Employee Attitude, Buying Behaviour
6.	BA/ BSc	Abnormal Psychology Paper VII	<ul style="list-style-type: none"> Therapies
7.	BA/ BSc	Industrial Psychology Paper VIII	<ul style="list-style-type: none"> Training, Communication, Stress and counselling, Leadership and team building
8.	BSc Biochemistry	Biochemistry In Health And Disease	<ul style="list-style-type: none"> Introduction: WHO definition of health, Health and hygiene, General health care, Factors affecting health, Indices and evaluation of health, Disease patterns in developed and developing world; Classification of diseases - Endemic, Epidemic, Pandemic; Professional health hazards. Disease conditions: Acute disease, Chronic disease, Incurable disease, Terminal disease, Illness, disorders, Syndrome, Pre-disease. Treatment: Psychotherapy, Medications, Surgery, Medical devices, and Self-care. Dimensions of Health: Physical, Mental, Spiritual, Emotional, Environmental, Philosophical.
9.	BSc Biochemistry	Nutrition And Dietetics	<ul style="list-style-type: none"> Basal Metabolic Rate (BMR), Factors affecting BMR, Energy requirements for different physical activities, Specific

			<p>dynamic action of food, Nutritive value of proteins. Energy requirements and recommended dietary allowance (RDA) for infants, children and pregnant women. Protein calorie malnutrition.</p> <ul style="list-style-type: none"> Carbohydrates- Digestible and non-digestible, Dietary fibres, Essential fatty acids, lipoproteins and Cholesterol. Essential amino acids, Fortification of foods, Protein requirement for different categories.
10.	B.Sc CBBT & CZBT	Bit.T8-6 Biotechnology- VIII (Pragmatic Resources In Biotechnology)	<p>Unit 9. IPR</p> <p>Intellectual properties, copyrights, trademarks, trade secrets, patents, geographical indications, etc; Protection of plant variety and farmers right act; Indian patent act and amendments, patent filing; Convention on biological diversity; Implications of intellectual property rights on the commercialization of biotechnology products</p> <p>Unit 10. BIOETHICS</p> <p>Ethical implications of biotechnological products and techniques: Ethical research, plagiarism, DBT regulations for biosafety and GMOs. Uses of laboratory animals in biomedical research, animal experimentation using hazardous chemicals, animal care and maintenance, CPSEA guidelines for laboratory animals.</p>
11.	B.Sc Biotechnology (NEP- open elective)	BIT-OEC-201: Applications of Biotechnology in Agriculture	<p>Unit – 2: Transgenic plants</p> <p>The GM crop debate – safety, ethics, perception and acceptance of GM crops, GM crops case study: Bt-cotton, Bt-brinjal</p>
12.	B.A	Basic Concepts In Political Science	EQUALITY- Social, Economic and Political JUSTICE
13.	B.A	Human Rights	<p>HUMAN RIGHTS- Meaning, Nature, Significance</p> <p>MAJOR ISSUES AND CONCERNS OF HUMAN RIGHTS- Discrimination and Violence against Women, Children, Dalit and Minorities, PWD and Transgender.</p>

14.	B.A	Indian Polity: Issues And Concerns	NATIONAL INTEGRATION AND SOCIAL HARMONY- Need for National Integration and Suggestions for securing National Integration. CELEBRATING DIVERSITY- Consensus DEVELOPMENT AND INCLUSIVENESS: Marginalized, Women and Tribal
15.	B.A	Western Political Thought	CONCEPT OF CITIZENSHIP by Hannah Arendt
16.	BA	Indian Constitution: Institutional Framework	FUNDAMENTAL DUTIES
17.	BA	International Relations: Concepts	HUMAN RIGHTS- Universal declaration of human rights, role of NGO in the promotion of Human Rights.
18.	BA	Political History Of Karnataka	Duties And Functions of King And Ministers
19.	BA	Contemporary World	Human Rights In Contemporary World
20.	B.Voc MLT	Hematology	Introduction to blood bank Blood transfusion therapy
21.	BCS 105	Nutrition and toxicology	Nutrition in various age groups Physiological adjustments, Nutritional requirements, Effect of malnutrition, and special needs and nutritional problems in Pregnancy, Lactation, infancy, preschool, adolescent, young adults and elderly adults.
22.	I BA (Sem I)	Generic English	<ul style="list-style-type: none"> • Nine Gold Medals - David Roth • Acceptance - Bhaswar Mukherjee • Bholi - K.A. Abbas Swami Vivekananda's Speech Of 1893, Chicago.
23.	I BCOM/BBA (Sem I)	Generic English	<ul style="list-style-type: none"> • Stopping by Woods on a snowy evening - R. Frost • Bazaars of Hyderabad - Sarojini Naidu • Marriage is a Private Affair - Chinua Achebe • Acceptance - Bhaswar Mukherjee • The Bet - Anton Chekhov The Golden Dream - PoornaChandra Tejaswi
24.	I BSc/ BCA (Sem I)	Generic English	<ul style="list-style-type: none"> • If - Rudyard Kipling • Farewell Address at Chicago - Barack Obama • Acceptance - Bhaswar Mukherjee

			<ul style="list-style-type: none"> When Free Speech is Truly Free - Sundar Sarukkai
25.	II BA/BSc/BCOM/BB A/BCA (Sem III)	General English	<ul style="list-style-type: none"> Psalm of Life Bonsai King Lear Little Girls Wiser than Men The Adventure of the Blue Carbuncle – Sir Arthur Conan Doyle Antecedents – Romila Thapar The Worship of the Wealthy – G.K. Chesterton The Obligations to Endure- Rachel Carson Unity Of Mind – Dr. A.P.J. Abdul Kalam
26.	II BA/BSc/BCOM/BB A/BCA (Sem III)	Additional English	<ul style="list-style-type: none"> Wilshire Bus -Hisaye Yamamoto On The Other Side Of The War -Elizabeth Gordon Malala's Nobel Award Acceptance Speech Malala Yousuf Zhai Let's Unite -Syed Saud When it Rains in Dharamsala -Tenzin Tsundue Yashodhara's Lament - Folk Poem Chitra (One Act Play) -Rabindranath Tagore
27.	I BA (Sem II)	Generic English	<ul style="list-style-type: none"> Psalm of life - H. W. Longfellow Monkey's Paw- W.W. Jacobs Mrs. Dutta Writes A Letter - Chitra B. Divakaruni The Cold Within - James Patrick Kinney The Fly - Katherine Mansfield
28.	I BCOM/BBA (Sem II)	Generic English	<ul style="list-style-type: none"> Psalm of life - H. W. Longfellow A Cut above - Meena Bindra Charlie Chaplin Extract from Autobiography The Happy Prince - Oscar Wilde
29.	I BSc/ BCA (Sem II)	Generic English	<ul style="list-style-type: none"> Psalm of life - H. W. Longfellow Britain Does Owe Reparations - Dr. Shashi Tharoor Celebrity - Brad Paisley A Question of English - Ramachandra Guha

			<ul style="list-style-type: none"> I Know Why The Caged Bird Sings - Maya Angelou
30.	I Open Elective - BA/BSc/BCOM/BB A/BCA (Sem II)	Critical thinking and Creative writing	<ul style="list-style-type: none"> On His Blindness Strange Fits of Passion To a Skylark The Indian upon God Mending Wall
31.	II BA/BSc/BCOM/BB A/BCA (Sem III)	General English	<ul style="list-style-type: none"> Ulysses Spring and Fall Ozymandias To Autumn The World Is Too Much With Us Mirror Where There is a Will - Mahesh Dattani
32.	II BA/BSc/BCOM/BB A/BCA (Sem III)	Additional English	<ul style="list-style-type: none"> Once Upon A Time A Day Off The Lost Tribes of Amazon The Garden party
33.	BA 1 sem	Kala Sourabha-1	<ul style="list-style-type: none"> Balyada Nenapugalu
34.	BSc 1sem	Vignana Sourabha-1	Bhoomi kathe Chomana dudi <ul style="list-style-type: none">
35.	BCom 1 sem	Vaaniyya Sourabha-1	Giliyu panjaradolilla Vachanagalu
36.	B. Com	Personality Development	<ul style="list-style-type: none"> Concepts Soft Skills Positive Attitude Stress Management Leadership Career Planning <p>Develop qualities that make them unique by trying to develop their personality with values</p>
37.	BCA 2 sem	Ganaka Sourabha-1	Muppu Youvvana
38.	BBA 2sem	Nirvahanaa Sourabha-1	Baalu
39.	BA 2 sem	Kala Sourabha-2	Aparaadhi yaaru
40.	BSC 2 sem	Vignana Surabha-2	Tootadavanu Gubbacch hulu Maralimannige
41.	Bcom 2 sem	Vaaniyya Sourabha-2	Kadale kayi prasanga
42.	BCA 2sem	GanakaSourabha-2	Matte Broonavaagabeeku

43.	BA,BSC,BCOM,B CA,BBA-3-SEM (Common Text)	Chennudi Kannada-3	Maanaveeyate Antaaralla
44.	BA,BSC,BCOM,B CA,BBA-4-SEM (Common Text)	Chennudi Kannada-4	Amaanaveeya Maanavaru

Gender equality

Sl. No.	Stream	Course	Content
1.	BA	Development Economics	<ul style="list-style-type: none"> Gender Empowerment Index
2.	BA	Contemporary Indian Economy	<ul style="list-style-type: none"> India's human development
3.	I sem B.Sc Biotechnology (NEP)- Core	BIT-101T : Cell Biology and Genetics	Unit – 4: Linkage and mutation <ul style="list-style-type: none"> Allosomal (Klinefelter syndrome and Turner's syndrome), autosomal (Down's syndrome and Cri-Du-Chat syndrome) conditions.
4.	BA/ BSc	Industrial Psychology Paper VI	<ul style="list-style-type: none"> Consumer Behaviour
5.	BA/ BSc	Abnormal Psychology Paper VII	<ul style="list-style-type: none"> Sexual Disorders
6.	I BCOM/BBA (Sem II)	Generic English	<ul style="list-style-type: none"> Psalm of life - H. W. Longfellow A Cut above - Meena Bindra Charlie Chaplin Extract from Autobiography The Happy Prince - Oscar Wilde
7.	I BSc/ BCA (Sem II)	Generic English	<ul style="list-style-type: none"> Psalm of life - H. W. Longfellow Britain Does Owe Reparations - Dr. Shashi Tharoor Celebrity - Brad Paisley A Question of English - Ramachandra Guha I Know Why The Caged Bird Sings - Maya Angelou

8.	I Open Elective - BA/BSc/BCOM/BB A/BCA (Sem II)	Critical thinking and Creative writing	<ul style="list-style-type: none"> On His Blindness Strange Fits of Passion To a Skylark The Indian upon God Mending Wall
9.	II BA/BSc/BCOM/BB A/BCA (Sem III)	General English	<ul style="list-style-type: none"> Ulysses Spring and Fall Ozymandias To Autumn The World Is Too Much With Us Mirror Where There is a Will - Mahesh Dattani
10.	II BA/BSc/BCOM/BB A/BCA (Sem III)	Additional English	<ul style="list-style-type: none"> The Rabbit Proof Fence The Lost tribes of Amazon
11.	B. Com	Entrepreneurship Development	Women's Entrepreneurship: <ul style="list-style-type: none"> Challenges faced (gender disparity) and measures to overcome the challenges
12.	BSc 1 sem	Vignana Sourabha-1	Omme Hennagu Prabhuve <ul style="list-style-type: none"> Lekhakiya Tallanagalu
13.	BCA 1 sem	Ganaka Sourabha-1	Dampathya
14.	BA 2 sem	Kala-Sourabha-1	Lahari Lahari Lahari
15.	BSc 2 sem	Vignana Sourabha-2	Mahile mattu jaahiraatu
16.	BCOM 2 sem	Vaaniyya Sourabha-2	Toleda Mutthu
17.	BCA 2 sem	Ganaka Sourabha-2	Saavu
18.	BA,BSC,BCOM,BC A,BBA-3- (Common Text)	Chennudi Kannada-3	Linga taratamyada swaroopa
19.	BA,BSC,BCOM,BC A,BBA-4-SEM (Common Text)	Chennudi Kannada-4	Ella Magala Maduvegaagi

Environment sustainability

Sl. No	Stream	Course	Content
1.	BA	Development Economics	Sustainable development
2.	BA	India After Independence	Environmental Movements
3.	BA	Contemporary World	Ecology, Environment And Environmental Degradation, The Earth Summit At Rio
4.	BA	Cultural Heritage	Heritage Of India
5.	BA	Cultural Heritage Of Karnataka	Ecological Heritage
6.	II BA/BSc/BCOM/BB A/BCA (Sem III)	Additional English	<ul style="list-style-type: none"> A Day Off The Lost Tribes of Amazon The Garden party Rabbit Proof Fence
7.	BSc	Chemical Foundation Of Biochemistry -2	<ul style="list-style-type: none"> Chemical Toxicity: Introduction, poisons, toxin and toxicity, lead, mercury, aluminium, arsenic, corrosives, cyanide, irritants, phosphorus, CO₂, SO₂, SO₃, NO₂, halides and acid fumes, poisoning, sources, signs and symptoms. Free radicals: introduction, definition, generation and scavenger systems.
8.	BSc	Biochemistry VIII	<ul style="list-style-type: none"> Mutation: Mutagens – chemical and physical: spontaneous and induced mutations. Types of mutation, reversion and suppression, Molecular basis of mutation. DNA repair mechanisms- repair systems, direct (photoactivation), excision repair – base excision and nucleotide excision repair.
9.	B.Voc MLT	Food Microbiology Water Microbiology	<p>Microbial flora of food- meat, poultry, eggs, fruits and vegetables, shellfish, milk and milk products and canned foods. Food spoilage, Microbiological examination of foods- direct microscopic examination, culture techniques. Important Food borne pathogens</p> <p>Waste water- chemical and microbiological characteristics, microbiological examination of</p>

		Aero Microbiology	<p>water-standard plate count, MPN, MFT. Important Water borne pathogens</p> <p>Micro organisms found in air, factors influencing microorganisms in air, isolation of microorganisms from air. Bioaerosol control. Important air borne pathogens, bioburden</p>
10.	BCS-105	Nutrition and Toxicology	<p>Toxicology Introduction to general toxicology. Classification and ramification in toxicology. Toxicants: Animal and plant toxins, Exposure; Routes of exposure ; Organism environment interaction, Absorption and distribution of toxicants. Toxicity- Factors influencing Dose response relationship–IC50, LD50, ED50, NOEL. Reversibility and sensivity. Xenobiotics and endogeneous substances. Detoxification enzymes. Mutations- genotoxicity, Ames test. Carcinogenic toxins. Cytotoxicity: methods to test toxicogens, Diagnosis of toxic effects in liver and kidney. Metal toxicity–Arsenic and lead. Hazard identification: Risk assessment, Risk prediction and management.</p>
11.	BCS 205	Microbiology	<p>Microbial Applications</p> <p>Fermentation technology – fermentation, basic steps in industrial fermentation process (upstream and downstream), design of typical fermenter, production of penicillin and beer. Environmental microbiology – production of biogas, bioleaching. Bioremediation- definition, bioremediation of heavy metals and pesticides. Dairy microbiology – Production of yoghurt.</p>
12.	BCT 402	Molecular genetics	<p>HUMAN GENETICS Biochemical methods for genetic studies: Chromosome banding, Chromosome mapping based on recombination frequency data. Transposons. Transposition in human chromosomes. Overview of human genome project, mapping of human genes; techniques used, annotation of important genes. Chromosomal abnormalities. Use of SNPs for detection of diseases.</p>
13.	V sem B.Sc CBBT & CZBT (2019)	BIT.T5-5: Biotechnology-V	<p>Part A: Plant Biotechnology Unit 1: Plant tissue culture Role of tissue culture in agriculture, horticulture and forestry.</p>

		(Plant and Environmental Biotechnology)	<p>Unit 2: Micro propagation and Secondary metabolite production Clonal propagation of elite species (Micro propagation)</p> <p>Unit 5: Transgenic plants Applications of transgenic plants- Bt-cotton, therapeutic proteins, edible vaccines from plants – Banana, watermelon.</p> <p>Part B: Environmental Biotechnology Unit 1: Modern fuels Unit 2: Bio fertilizers, Bio pesticides and Bioleaching</p> <p>Unit 3: Bioremediation</p> <p>Unit 4: Waste management</p>
14.	VI B.Sc CBBT & CZBT (2019)	BIT.T8-6: Biotechnology-VIII (Industrial Biotechnology)	<p>Unit 7: Bioprocessing</p> <p>Industrial application of enzymes in Detergents, Leather, Beverage, food and pharmaceutical.</p>
15.	I sem B.Sc Biotechnology (NEP- open elective)	BIT-OEC-101: Biotechnology for Human Welfare	<p>Unit – 1: Industry Enzymes for textile industry, breweries, food supplements – single cell protein, vitamins, food processing - cheese, yoghurt making, biodegradable plastics, biofuels.</p> <p>Unit – 2: Environment Applications of Biotechnology in environmental aspects: waste management, biodegradation of heavy metals, water cleaning, removing oil spills, air and soil pollution, bioremediation, biomining.</p>
16.	II sem B.Sc Biotechnology (NEP- open elective)	BIT-OEC-201: Applications of Biotechnology in Agriculture	<p>Unit – 1: Agricultural Biotechnology Soil and air as a major component of environment. Types, properties and uses of soil and air. Distribution of microorganisms in soil and air. Major types of beneficial microorganisms in soil. Major types of harmful microorganisms in soil.</p> <p>Unit – 3: Biopesticides Baculovirus pesticides, Myco pesticides,</p>
17.	I BA (Sem I)	Generic English	<ul style="list-style-type: none"> Stopping by Wood on a snowy evening - R. Frost

			A White Heron - Sarah Orne Jewett
18.	I BCOM/BBA (Sem I)	Generic English	<ul style="list-style-type: none"> Stopping by Woods on a snowy evening - R. Frost Bazaars of Hyderabad - Sarojini Naidu The Golden Dream – Poorna Chandra Tejaswi
19.	B. Com	Business Law	Environmental Law The subject emphasises the protection of the natural ecosystem
20.	I BSc/ BCA (Sem I)	Generic English	<ul style="list-style-type: none"> Stopping by Wood on a snowy evening - R. Frost
21.	II BA/BSc/BCOM/BB A/BCA (Sem III)	General English	<ul style="list-style-type: none"> Bonsai The Obligations to Endure- Rachel Carson
22.	II BA/BSc/BCOM/BB A/BCA (Sem III)	Additional English	<ul style="list-style-type: none"> When it Rains in Dharamsala -Tenzin Tsundue
23.	I BA (Sem II)	Generic English	<ul style="list-style-type: none"> Lake Isle of Innisfree- W.B. Yeats
24.	I BCOM/BBA (Sem II)	Generic English	<ul style="list-style-type: none"> Shut Down the Shop - K. S. Nissar Ahmed The Sunderbans - Susil Mandal
25.	I BSc/ BCA (Sem II)	Generic English	<ul style="list-style-type: none"> Shooting an Elephant- George Orwell
26.	I Open Elective - BA/BSc/BCOM/BB A/BCA (Sem II)	Critical thinking and Creative writing	<ul style="list-style-type: none"> To a Skylark The Indian upon God Mending Wall
27.	II BA/BSc/BCOM/BB A/BCA (Sem III)	General English	<ul style="list-style-type: none"> Ulysses Spring and Fall Ozymandias To Autumn The World Is Too Much With Us Mirror
28.	M.Sc. Biotechnology	Environmental Biotechnology (BTH 401)	Water management and wastewater treatment, Biomining, Biodiesel & Bioremediation, Biowaste treatment
29.	BA1 sem	Kala Sourabha-1	Shraavana
30.	BCom 1 sem	Vanijya Sourabha-1	Manimanjari
31.	BSc 1 sem	Vignaana Sourabha-1	Chigarigangala Cheluvi
32.	BCA 1 sem	Ganaka Sourabha-1	Chandranannu kareyirebhoomige, Beladingalu, Nabhomandalada darideepagalu
33.	BSC 2 sem	VignanaSurabha-2	Modabittane mattu krutaka male barisuvudu Keetadinda koti naaasha

34.	BCOM 2 sem	Vanijya Sourabha-2	Belagu
35.	BA,BSC,BCOM,BC A,BBA-3- (Common Text)	Chennudi Kannada-3	Maaneetar
36.	B.Sc	Agricultural and Environmental Microbiology	Microbes and Biogeochemical cycles- Nitrogen, Sulphur and Carbon Bioleaching Biodegradation Bioremediation Bio pesticides Bio fertilizers Plant disease management Air sampling Water analysis methods and BIS standards
37.	B.Sc	Food and Dairy Microbiology	Food sanitation Waste disposal methods GMPs in food industry Food surveillance system
38.	B.Sc	Immunology and Medical Microbiology	Lab diagnosis and management of human diseases
39.	B.Sc	Industrial Microbiology and Microbial Technology	Fermentation economics

Professional Ethics

Sl. No.	Stream	Course	Content
1.	BA	Development Economics	• Entrepreneurship development
2.	BA	Indian Economics	• Information science
3.	BA	Basic Economics	• Accounting & Economic cost
4.	BA/ BSc	Foundations of Psychology I	• Practical Component, Research Methods
5.	BA/ BSc	Foundations of Psychology II	• Practical Component, Personality Chapter

6.	BA/ BSc	Abnormal Psychology Paper V	<ul style="list-style-type: none"> Practical Component, Classification of mental disorders
7.	BA/ BSc	Industrial Psychology Paper VI	<ul style="list-style-type: none"> Practical Component, Job analysis and Selection
8.	BA/ BSc	Abnormal Psychology Paper VII	<ul style="list-style-type: none"> Practical Component, Therapies
9.	BA/ BSc	Industrial Psychology Paper VIII	<ul style="list-style-type: none"> Practical Component, Stress and Counselling
10.	I BCOM/BBA (Sem II)	Generic English	<ul style="list-style-type: none"> Psalm of life - H. W. Longfellow A Cut above - Meena Bindra Charlie Chaplin Extract from Autobiography The Happy Prince - Oscar Wilde
11.	I BSc/ BCA (Sem II)	Generic English	<ul style="list-style-type: none"> Psalm of life - H. W. Longfellow Britain Does Owe Reparations - Dr. Shashi Tharoor Celebrity - Brad Paisley A Question of English - Ramachandra Guha I Know Why The Caged Bird Sings - Maya Angelou
12.	I Open Elective – BA/BSc/BCOM/BB A/BCA (Sem II)	Functional English Grammar and Study Skills	<ul style="list-style-type: none"> Greeting, Welcoming Consultation and Solution of Problems Polite sentences and Words Principles of Effective Speech and Presentations Dealing with Language Differences Etiquette in Cross-cultural Communication
13.	I Open Elective - BA/BSc/BCOM/BB A/BCA (Sem II)	Critical thinking and Creative writing	<ul style="list-style-type: none"> On His Blindness Strange Fits of Passion To a Skylark The Indian upon God Mending Wall
14.	II BA/BSc/BCOM/BB A/BCA (Sem III)	General English	<ul style="list-style-type: none"> Ulysses Spring and Fall Ozymandias To Autumn The World Is Too Much With Us Mirror

			<ul style="list-style-type: none"> Where There is a Will - Mahesh Dattani
15.	II BA/BSc/BCOM/BB A/BCA (Sem III)	Additional English	<ul style="list-style-type: none"> Rabbit Proof Fence Lost tribes of Amazon
16.	II BVOC-MLT	Communicative English	<ul style="list-style-type: none"> Multicultural Communication, Non-verbal and oral communication in multicultural environment Formal speech Group discussion related to work. Product information, Persuasive writing, Project report, Business email, Proposals.
17.	BA Journalism NEP I SEM	DSC 1- Introduction to Journalism	Responsibilities and ethics of Journalists
18.	OE Journalism NEP I SEM	OE 1-Writing for Media	Rules and ethics of writing for media.
19.	BA Journalism non NEP VI SEM	Paper 8: Advertising And Public Relation	Role of advertising in society, advertisement ethics and legal aspects; case studies Corporate
20.	BSc Biochemistry	Biochemistry VI	<p>Methods of raising antibodies - adjuvants, immune sera. Monoclonal antibodies - production and application.</p> <p>Molecular and Immunological techniques: Blotting techniques: principle and applications of Western, Southern and Northern blotting; Molecular biology techniques: PCR- types, principle, applications; Hybridization techniques types and applications. Fluorescent In situ Hybridisation (FISH), microarrays, Immunochemical techniques: principle and applications of Precipitation, agglutination, Immunodiffusion; Immunoelectrophoresis, RIA and ELISA. Autoradiography - principle and applications.</p>
21.	BSc Biochemistry	Biochemistry VIII	<p>Recombinant DNA Technology and Genetic Engineering: Tools of Recombinant Technology – Genetic engineering; definition, gene cloning-definition, use of DNA polymerase, restriction endonuclease, ligase and other DNA modifying enzymes in cloning</p>

22.	B.Voc MLT	Medical Ethics & Clinical Research	Introduction to medical ethics, Teaching/Learning Experience Drug Development Process
23.	BCT 103	Clinical Biochemistry	Medical Instrumentation Principle and applications of Blood gas analyser, cell counters, Ventilators, Nebulizers, Humidifiers, Spirometer, Thread-mill, Pace maker, Angiography, Reflexion oximetry, Fingertip pulse oximeter, Color Doppler and Heart Lung machine, ECG, Echocardiogram, CT, MRI
24.	BCT 203	Immunology	Cancer Immunotherapy Oncogenes and Cancer Induction, Tumors of the Immune System, Tumor Antigens, Immune Response and Evasion.
25.	B.Sc CBBT & CZBT (2019)	BIT.T8-6 BIOTECHNOLOGY-VIII (PRAGMATIC RESOURCES IN BIOTECHNOLOGY)	Unit 9. IPR Intellectual properties, copyrights, trademarks, trade secrets, patents, geographical indications, etc; Protection of plant variety and farmers right act; Indian patent act and amendments, patent filing; Convention on biological diversity; Implications of intellectual property rights on the commercialization of biotechnology products. Unit 10. BIOETHICS Ethical implications of biotechnological products and techniques: Ethical research, plagiarism, DBT regulations for biosafety and GMOs. Uses of laboratory animals in biomedical research, animal experimentation using hazardous chemicals, animal care and maintenance, CPSEA guidelines for laboratory animals.
26.	I BA (Sem I)	Generic English	<ul style="list-style-type: none"> • Nine Gold Medals - David Roth • Acceptance - Bhaswar Mukherjee • Bholi - K.A. Abbas Swami Vivekananda's Speech Of 1893, Chicago.
27.	I BCOM/BBA (Sem I)	Generic English	<ul style="list-style-type: none"> • Stopping by Woods on a snowy evening - R. Frost • Bazaars of Hyderabad - Sarojini Naidu • Marriage is a Private Affair - Chinua Achebe

			<ul style="list-style-type: none"> • Acceptance - Bhaswar Mukherjee • The Bet - Anton Chekhov • The Golden Dream - PoornaChandra Tejaswi
28.	I BSc/ BCA (Sem I)	Generic English	<ul style="list-style-type: none"> • If - Rudyard Kipling • Farewell Address at Chicago - Barack Obama • Acceptance - Bhaswar Mukherjee • When Free Speech is Truly Free - Sundar Sarukkai •
29.	I Open Elective – BA/BSc/BCOM/BB A/BCA (Sem I)	Functional English Grammar and Study Skills	<p>Writing as a Skill</p> <ul style="list-style-type: none"> • Its Importance • Mechanism of Writing • Words and Sentences, • Paragraph as a Unit of Structuring the Whole Text • Analysis of Paragraph <p>2. Function Uses of Writing:</p> <ul style="list-style-type: none"> • Personal • Academic and • Business <p>3. Writing Process:</p> <ul style="list-style-type: none"> • Planning a Text • Finding Materials • Drafting • Revising • Editing • Finalising Draft •
30.	II BA/BSc/BCOM/BB A/BCA (Sem III)	General English	<ul style="list-style-type: none"> • Psalm of Life • Bonsai • King Lear • Little Girls Wiser than Men • The Adventure of the Blue Carbuncle – Sir Arthur Conan Doyle • Antecedents – Romila Thapar • The Worship of the Wealthy – G.K. Chesterton • The Obligations to Endure- Rachel Carson • Unity Of Mind – Dr. A.P.J. Abdul Kalam

31.	II BA/BSc/BCOM/BB A/BCA (Sem III)	Additional English	<ul style="list-style-type: none"> • Leaflet Writing • Caption Writing • Lets Unite
32.	II BVOC-MLT	Communicative English	<ul style="list-style-type: none"> • Team work, • Time management skills, • Conflict management • Presenting a paper. • Letter writing: thanking, requesting, apologizing etc.
33.	I BA (Sem II)	Generic English	<ul style="list-style-type: none"> • Psalm of life - H. W. Longfellow • Monkey's Paw- W.W. Jacobs • Mrs. Dutta Writes A Letter - Chitra B. Divakaruni • The Cold Within - James Patrick Kinney • The Fly - Katherine Mansfield
34.	B. Com	Company Law & Secretarial Practice/Corporate Administration	Duties and responsibilities of <ul style="list-style-type: none"> • Independent Director • Auditor • Chief Financial Officer • Whole Time Director • This emphasises on the professional code of conduct
35.	B. Com	Auditing	Professional Ethics of an Auditor <ul style="list-style-type: none"> • Highlights on the ethical standards of conduct
36.	B. Com B.Com A&F	Business Ethics	<ul style="list-style-type: none"> • Factors influencing business ethics • Ethics in management • Corporate Culture • Corporate Governance • Corporate Social Responsibility • Case Studies • Business ethics refers to the standards for morally right and wrong conduct in business. Business ethics enhances the law by outlining acceptable behaviours
37.	M.Sc. Biotechnology	Research Methodology	<ul style="list-style-type: none"> • Plagiarism, software for plagiarism
38.	B.Sc 1 sem	Vignana Sourabha-1	Kathe kattuva Bikkattugalu Vaicharika Pragnege Adetadegalu
39.	BCom 1 sem	Vanijya sourabha-1	Jessy Ovens shatamanada aatagaara
40.	BCA 1 sem	Gnaka sourabha-1	Mousebittu molahididaata
41.	BA 2 sem	Kalaa Sourabha-2	Veegayuga

42.	BSC 2 sem	Vignana Sourabha-2	Kanasina hudukaata
43.	BCA 2 sem	Ganaka Sourabha-2	Bengalooru Hosa Udyamagala Ale
44.	BA,BSC,BCOM,BCA,BBA-4-SEM (Common Text)	Chennudi Kannada-4	Karakushala Kalegala Meele Tantragnanada Prabhaava