

E-Mail: nationalbgudiautonomous@gmail.com 2000-26674441

THE NATIONAL COLLEGE BASAVANAGUDI, BENGALURU- 04 AUTONOMOUS Website: www.ncbgudi.com

Interdisciplinary Courses

Semesters I to IV

Code	Name of the Course	Hours		Marks		Credits
			IA	Exam	Total	
UG-ID-Che	Chemistry for Entrepreneurs	2	15	35	50	2
UG-ID-Eco	Economics in Daily Life	2	15	35	50	2
UG-ID-Ele	Electronics for All	2	15	35	50	2
UG-ID-Mat	Elementary Mathematics	2	15	35	50	2
UG-ID-Com	Introduction to Income Tax	2	15	35	50	2
UG-ID-Phy	Physics in Everyday Life	2	15	35	50	2
UG-ID-Soc	Sociology and society	2	15	35	50	2
UG-ID-Jor	Understanding Media	2	15	35	50	2

Interdisciplinary Course Matrix

UG-ID-Che : Chemistry for Entrepreneurs Exam Marks : 35

Lecture Hrs : 27

Internal Marks : 15

Objectives of the course are: 1. The student will acquire a foundation of chemistry of sufficient breadth and depth to enable them to understand and critically interpret the primary chemical literature.

2. The *course* serves as a template for context-based, *interdisciplinary* teaching that ... *chemistry* with other disciplines by rethinking *course objectives* and content.

3. The student will learn professionalism, including the ability to work in teams and apply basic ethical principles.

4. The student will understand the interdisciplinary nature of chemistry and to integrate knowledge of mathematics, physics and other disciplines to a wide variety of chemical problems.

Course Outcome:

- 1. A general study of food flavours, colours and preservatives, artificial sweeteners.
- 2. Introduction to cosmetics and perfumes, preparation and uses of the following: Hair dve. hair spray. Shampoo. Sun-tan lotions, face powder, lipsticks. talcum powder, nail enamel, creams (cold, vanishing and shaving creams), antiperspirants and artificial flavours.
- 3. Determine composition and pH of soil, which can be useful in agriculture.
- 4. Study of pharmaceutical aids like talc, diatomite, kaolin, bentomite, gelatin and natural colours Synthesis of the representative drugs of the following classes: analgesics agents, antipyretic agents, anti- inflammatory agents (Aspirin); antibacterial and antifungal agents (Sulphonamides; Sulphanethoxazol, Sulphacetamide, Trimethoprim); antiviral agents (Acyclovir), central nervous system.
- 5. Introduction to Material Science Understand the space lattices.
- **6.** Synthesis of Nanomaterials Understand the classification nanostructured materials.
- **7.** Understood the principles and Background to nanotechnology

Unit-I: INSTRUMENTATION, COSMETICS AND PERFUMES

Working principle of the following instruments and their applications:

pH meter, conductometer, UV-visible spectrophotometer, Flame photometer, AFM (atomic force microscopy) and STM. Applications of the above instruments for the analysis of perfumes, soaps and detergents.

COSMETICS AND PERFUMES:

Classification of raw materials used in the cosmetic industry for the manufacture of finished products.

Indian Standard specification laid down for sampling and testing of various cosmetics in finished form by the bureau of Indian standards.

Brief introduction of the following cosmetic formulation and a study on their quality control: Shampoo, Tooth paste, nail polish, lipstick and hair dyes.

Raw materials in Perfumery- History of Perfumes -Determination of water content, acid value and ester content.

General information about allergies related to cosmetics and perfumes.

Unit - II: NUTRITION , FOOD AND ADULTERANTS, SOIL AND	Hours
WATER	
Nutritional value of foods, idea about food processing and food preservations.	
Adulteration- Introduction, Types, Tests for adulterants, Control .Analysis of food	adulteration
in edible oil, ghee, coffee powder, tea, chilli powder, dhal, and turmeric.	
Detection of pesticides in fresh fruits (grapes, apples) and vegetables (cauliflower,	brinjal,
cabbage, tomato)	

Hours

The National College, Autonomous, Basavanagudi, Bengaluru-04

 $Additives-Introduction-Types-Study\ of\ preservatives,\ colours.$

Antioxidants -synthetic and natural, methods of their estimation.

SOIL AND WATER:

1. Soil chemistry:- Particle size distribution, aggregate size analysis, soil texture and organic carbon determination total porosity, soil moisture constants, Soil pH and electrical conductivity. Water soluble salts and available nutrients in soil.

2. Chemistry of water; Introduction, physical, chemical and biological characteristics of water. Drinking water standards, physicochemical analysis of water.

Unit - III: PHARMACEUTICAL PRODUCTS AND TOXICOLOGY OF	Hours
DRUGS, NANOMATERIALS IN DAILY LIFE	

Introduction to drugs: - Definition, nomenclature sources with example.Dosage forms- Tablets, Capsules, Injections, Ointments, Creams, Oral solution, Aerosol. Pharmacopoeia, Impurities and Limit test

Narcotics- heroin and cocaine. Stimulants- caffeine, amphetamines. Depressants - Barbiturates, Benzodiazepines. Hallucinogens- LSD.

NANOMATERIALS IN DAILY LIFE:

Use of Nanomaterials in cosmetics, detergents, stains removers, water purification, medicine and drug delivery, food industry.

TEXT BOOKS

College Chemistry -VI: L.Indira and G. R. Chatwal.

Gupta, P.K.; Gupta, S.K.(2011), Pharmaceutics and Cosmetics, PragatiPrakashan

REFERENCE BOOKS

- 1. Text book of Herbal Cosmetics: M.vimaladevi.
- 2. College Chemistry-IV: L.Indira and G. R. Chatwal
- 3. Handbook of Nutrition and Food, Third Edition by Carolyn D.

UG-ID-Eco : Economics in Daily Life		
Lecture Hrs : 27	Internal Marks : 15	Exam Marks : 35
 Objectives of the course are 1. To train the students in the 2. Understanding of some reasoning which the learners consumers. 3. Realization of learner's role the nation is facing today. Course Outcome: The students will learn how name of how microeconomic 	fundamental theories in economic basic economic concepts and o s can apply in their day to day lif e in nation building and sensitivity markets organise core economic a concepts can be applied to analyse	s. development of economic fe as citizens, workers and to the economic issues that activities and also be made e real-life situations.
Unit-I: Introduction:		3Hours
Basic problems of an economy	y, Types of Economies.	
Unit – II: Banking:		8 Hours
Commercial Bank-Meaning, T Bank-Meaning and Functions.	Types and Functions; e-banking an	nd its instruments; Central
Unit – III: Capital market:		8Hours
Meaning, Types, role, importa NASDAQ.	nce, instruments, online trading, B	ulls and Bears, BSE- NSE &
Unit – IV: Budget:		8 Hours
Meaning, Types, Classification Budget, Latest Union Budget & TEXT BOOKS	n of Budget-Union-State & Local Bu & Recent Budget of Government of	dget, Importance of Karnataka.
Rudradutt&Sundaram :India	n Economy.S Chand & Co Ltd publi	cation.2016
Jhingan M. L:Monetary Economics Vrinda Publications P Ltd.,2014Gordon &Natarajan:Indian Financial System ,Himalaya Publishing House,2015Tyagi B.P:Public Economics,Jai PrakashNath& Co., Meerut,2015Lekhi R. K:Public Finance,Kalyani Publishers / LyallBk Depot,2015Cherunilam. F:International economics,McGraw Hill Education,2017		
REFERENCE BOOKS		
Meir Kohn: Financial Institution Peacock A and Shaw G K : The RBI : <u>http</u> Ministry of Finance	ons and Markets, Oxford University Economic Theory of Public Policy, os://www.rbi.org.in	y Press,2004 ,St Martin 'Press, 2014

UG-ID-Ele : Electronics for All				
Lecture Hrs : 27	Internal Marks : 15	Exam M	arks : 35	
 Objectives of the course are: 1. To create interest in Electronics 2. To create awareness about basic electronics components 3. To make them to understand the usage of Electronics devices in our daily life. 4. To realize how electronics is used in our communication system. 				
Course Outcome: After studying this paper stu their electronics equipment. T	dents will be able to recognize the They also realize the importance of e	basic compon lectronics in c	ents used in laily life.	
Unit-I: Introduction to Elec	ctronic Components		7 Hours	
Passice Concepts: Charge, Energy, Current, Potential, Power, AC and DC. Passive Components: Resistors, Capacitors, Inductor, Switches Active Components: Transformers, Diodes, Zener diodes, Transistors, Op-Amps. Power Supplies: Battery, Cell, Digital Components: Gates				
Unit – II: Basic Electronic	Circuits		7 Hours	
Bio Medical Instrumentation: Origin of bioelectric signals, Types of bioelectric signals, recording electrodes, ECG, EEG, EMG, Patient Monitoring System, Blood Pressure measurement, Blood Flow Meters, Pacemakers and Defibrillators				
Unit – III: Electronic Devic	es in Day today Gadgets		7 Hours	
Renewable source of energy Sensors, Actuators and trar applications. Insides of a mobile, TV, Re printers.(Advantages, Disadv	using electronic devices. nsducers: Introduction, classificati efrigerator, washing machines, mu antages and hazards)	on, working	(brief) and printers, 3D	
Unit – IV: Communication	Systems		6 Hours	
Basic Block Diagram of a Communication System, Types of Communication systems, Cellular communication System, Bluetooth, Wi-Fi, Wi-Max, GPS, LTE, Zig-Bee, LI-Fi Technology. TEXT BOOKS				
Study material by Dept of Ele	ectronics, The National college, Basa	wanagudi		
REFERENCE BOOKS				
Basic electronics-vol I and Vol II by Basavaraju				

The National College, Autonomous, Basavanagudi, Bengaluru-04

UG-ID-MAT : Elementary Mathematics				
Lecture Hrs : 27	Internal Marks : 15	Exam Marks : 35		
Objectives of the course a	re: Students will feel a sense of a	accomplishment in their		
increasing ability to use mathematics to solve problems of interest to them or useful in				
their chosen fields. Student	s will attain more positive attitud	es based on increasing		
confidence in their abilities to	o learn mathematics.			
Course Outcome: Use numb	per-theory arguments to justify relation	onships involving		
divisors, multiples and factor	ring.Solve discrete mathematics prob	lems that involve:		
computing permutations and	combinations of a set. Find percenta	ges of different		
quantities. Calculate percenta	age increases and decreases.			
Unit-I: Number System and N	Number Series	4 Hours		
Numbers and their classification	n-test for divisibility of numbers-genera	l properties of		
divisibility-test of a prime num	ber-division and remainder-remainder r	ules-number series-two		
line number series.		4 11		
Unit – II: Ratio-Proportion	1···1· · · · · · · · · · · · · · · · ·	4 Hours		
Introduction-properties of ratio	-dividing a given number in the given ra	atio-comparison of ratios-		
userul results on proportion-cor	funded proportion-relation among the q	uantities more than two.		
Unit – III: Percentage		4 Hours		
Introduction-fraction to rate	e per cent-rate per cent to fraction-rate p	er cent of a number-		
expressing a given quantity as a	a percentage of another given quantity-c	converting a percentage		
into decimals-converting a deci	mal into a percentage	2 11		
Unit-IV: Average		5 Hours		
Introduction-average of different groups-addition or removal of items and change in average-				
replacement of some of the iten	ns- problems on specific formulae.			
Unit-V: Permutation and Cor	nbination	4 Hours		
Introduction-definition-fundam	ental principles of association-different	formulas on permutation-		
find the number of permutation	s of n different things taken r at a time-	to find the number of		
permutations of n things taken	them all at a time when p of the things	are alike of one kind-		
permutations of <i>n</i> things taken circular permutations-combinat	them all at a time when p of the things it ions.	are alike of one kind-		
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UG-BMOE.C1: Title: Introduction to Income Tax			
Lecture Hrs : 27	Internal Marks : 15	Exam Marks : 35	
 Objectives of the course are To expose the studen computation of individing the course outcome: Students who complete evasion and tax planning By the end of the course corporate tax laws care Students of the course taxability and expense 	ts to the specific provisions of Ind dual income. te this course will be able identify th ing. urse students will able to describe h be used for tax planning. e will able to explain different types and their deductibility.	come Tax Act relating to he difference between tax how the provisions in the pes of incomes and their	
IInit I. INTRODUCTION		074000	
History Of Income Tax- Mea Assessment Year- Previous Y Total Income- Revenue And	aning, Types of Tax, Basic concepts Year- Income-Agricultural Income, Capital- Receipts, Expenditure .(T	s: Person - Assessee - Gross Total Income- 'heory Only).	
Unit – II: RESIDENTIAL S	TATUS OF INDIVIDUALS	08 Hours	
Residential Status- Individua	l only and Incidence of Tax (Simpl	e Problem).	
Unit - III: INCOME FROM	SALARY	12 Hours	
Income from Salary- Feature Provident Fund, Fully Exemp House Rent Allowance- Leav	s of Salary Income-Basic Salary- A pted and Partly Exempted Allowand ve Encashment, Commutation of Pe	Illowances-Perquisites, ces, Simple Problems on ension and Gratuity.	
TEXT BOOKS			
a) Bhagwathi Prasad- Dib) Dr. Vinod K Singhanic) Dr. S Rajesh Kumar &	rect Taxes a- Direct Taxes- Law & Practice & Dr. Sreekanta- Income Tax		
REFERENCE BOOKS			
1. Gaur &Narang- Incon	ne Tax		
<u>2. Di. D. Mariyappa. – II</u>			

UG-ID-PHY : PHYSICS IN EVERYDAY LIFE			
Lecture Hrs : 24	Internal Marks : 15	Exam M	larks : 35
Objectives of the course are: To understand the Physics and its relation to dynamics of			
daily life.			
Course Outcome : The studen	t will be able to look into Science a	nd Physics inv	olved, in and
around his dairy me activities.			
Unit-I: Mechanics & Propertie	es of matter:		8 Hours
Physics an introduction, measu	rement – physical quantity –unit. For	rce –inertia, mo	otion of planet
angular motion, banking of roa	ds, conservation laws, motion of a flu	id, streamlines	motion.
Periodic motion, oscillations, P	Period and frequency, measurement of	time using the	m.
Elastic nature of matter, proper	ties of liquids and gases		
Unit - II: Optics and Imaging:			8 Hours
Light, Sources of visible light,	mechanism of emission of light, Filar	nent lamp, fluo	rescent lamp,
LED bulbs – efficiency compar	rison. Properties of light - reflection,	plane and sphe	erical mirrors
- real and virtual images, refrac	ction, concave and convex lens, instru	iments using le	ns and
mirrors – telescope, microscope	e. Fiber optics – optical fibers, it	s use in commu	inication.
Imaging techniques – Ultra sou	and scan, X-ray imaging, CT scan, M	lagnetic reson	ance imaging
(MRI)			
Unit – III: Universe Through	Time Line:		8 Hours
Early Concepts Of Universe	e - 4236BC Ancient Egyptians Calen	dar of 360 day	'S -
Aristotle, Ptolemy, Arayabhata	, Omar Khayyam and others contribu	ition to develo	pment of
early concepts of universe.			
Helio Centric Universe- Contri	ributions of Nicolas Copernicus, Tyc	cho Brahe, Joha	annes
Kepler, Galileo Galilei and othe	ers for development of concepts of H	lelio centric uni	iverse.
Gravity Binds Universe - univ	verse in the eyes of Issac Newton and	d Einstein. Imp	ortant
terrestrial telescopes and their of	terrestrial telescopes and their discoveries .Concepts of Expanding universe, Blackholes		
and Super Nova.			
New windows to look at the U	U niverse- Orbiting		
Telescopes,COBE,HUBBLE,C	HANDRA,WMAP,KEPLAR,HERSI	HEL, PLANCK	, JAMES
WEBB SPACE TELESCOPE Their mission and discoveries. Future of Universe.			
An over view of India and Space - Indian satellites, Chandrayan, MOM-Mars Orbiter			
Mission .			
TEXT BOOKS : Self designed course. Notes prepared by teachers			
REFERENCE ROOKS Any int	raductory book on 1 Machanics 9	Droportion of	mattor 2
Continue DOURD Ally Introductory DOUR OIL 1. Wethanics & Properties of matter 2.			
1			

UG-ID-SOC: SOCIOLOGY AND SOCIETY			
Lecture Hrs : 27	Internal Marks : 15	Exam Marks : 35	
Objectives of the course are	e: Toaware students about the basic s	ociological concepts and	
its application.			
To inculcate the values of stu	dying sociology in different themes an	d perspectives.	
10 sensitize students abo	ut the current problems, commur	lities and basic social	
Course Outcome: The stude	nts would be able to understand th	e society in Sociologica	
Perspective.		e society in sociological	
It helps in competitive exami	nations like UPSC, KPSC, etc.		
It enables students in creatin	g awareness among them about the cu	irrent social problems	
Unit-1: The concept of Sociology in g	oociology; Nature and Scope of	Sociology, 5Hours	
Importance of Sociology in g	obai perspective.		
Unit – II: Basic Sociologica	l Concents: Society Community A	ssociation 6Hours	
Institutions, Culture and Soc	Institutions. Culture and Socialisation		
,			
Unit – III: Social Institution	Family, Marriage.	5Hours	
Unit - IV: Communities; Tribal, Rural and Urban. 5H			
onic ivi communicity, initia	ai, Kurai and Urban.	5Hours	
	ai, Kurai and Urban.	5Hours	
	al, Rural and Urban.	5Hours	
Unit - V: Current Social Prob	lems; Over Population, Child Labour	ers, 6Hours	
Unit – V: Current Social Prob Alcoholism and Drug addicti	lems; Over Population, Child Labour on, Violence against women.	ers, 6Hours	
Unit – V: Current Social Prob Alcoholism and Drug addicti	lems; Over Population, Child Labour on, Violence against women.	ers, 6Hours	
Unit – V: Current Social Prob Alcoholism and Drug addicti REFERENCE BOOKS :	lems; Over Population, Child Labour on, Violence against women.	ers, 6Hours	

- **1.** H.E. Barnes An Introduction to the History of Sociology, Chicago University Press.
- 2. T.B. Bottomore, Sociology: A Guide to Problems and Literature, Barns & Noble.
- 3. Alex Inkeles, 1991 What is Sociology- Prentice Hall India Ltd. New Delhi.
- 4. John J, Macionis 2000, Society: The Basics, Pearson Education, New Delhi,
- 5. John J. Macionis, Sociology (10th Edition), Pearson Education, 2004.
- 6. Patricia Uberoi (Ed): Family, Kinship and Marriage in India, Oxford University Press, 1994.
- 7. Ram Ahuja, Social Problems in India, Rawat Publications, Jaipur

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UG-ID-JOR : Understanding Media					
Lecture Hrs : 27	Internal Marks : 15	Exam Marks : 35			
Objectives of the course are	Objectives of the course are:				
Understanding basic concepts	s communication and Mass Commu	nication tools.			
To understand the basic conc	To understand the basic concept of Journalism and Kinds of Journalism.				
Course Outcome:					
Students will understand con	cept communication and Journalisr	n which will help them to			
understand how to write. It he	elps students writing skills.				
Unit-I: Introduction to Com	munication	6 Hours			
Meaning and Definition of commu	inication, Principles of Communication, I	Function of communication,			
Types of Communication, Levels	Types of Communication, Levels of communication				
Unit – II: Media for Communication 8 Hours					
Print Media – Newspaper and M	Magazine				
Electronic Media – Television a	and Radio				
New Media – SNS, Blogs,					
Traditional Media / Folk Media	Traditional Media / Folk Media				
Unit – III: Introduction to Jo	urnalism	6 Hours			
Meaning and Definition of Journalism, Principles of Journalism, Function of Journalism					
Unit – IV: Kinds of Journalism in India 7 Hours					
Kinds of Journalism- Community , Development, Yellow, and Photo Journalism					
REFERENCE BOOKS					
 Keval. J. Kumar: Mass Communication in India- (4 th Revised Edition), Jaico Publishing house, Mumbai,2014 					
2. NareshRao and SuparnaRao 'Introduction to Mass Communication and Journalism'.					

