]	Part A Introduc	tion	
Prog	8		: BSc-II Year: I	Session:2022-23	
			Subject: Botany	y	
1	Course Code			S1-BOTA2T	
2	Course Title		В	Basic Botany	
3	Course Type (Core Course/Elective/Generic Elective/Vocational/))	Е	lective	
4	Pre-requisite (if any)			rse, a student must have had in class/12th/ certificate/diploma.	
5	Course Learning outcom (CLO)	nes	diversity of kingdoms It gives an a condition to The chang reproductive can be involved. The economic in nature volved.	accounts of plant adaptations from aquatic to colonize terrestrial habitat. es in morphological, anatomical and restructures that propel plant evolution	
6	Credit Value		2 Credits		
7	Total Marks		Max. Marks: 40+60	8	
1	al No. of Lectures- 60Turk): L-T-P:		t B- Content of the 0 Practical =0 (the		

I	1Fungi 1.1 General characteristics and cell wall composition. 1.2 Mode of nutrition 1.3 Types of reproduction 1.4 Economic importance 1.5 Parasexuality and Mycorrhiza 2. Lichens: Brief knowledge and their significance.	12
II	1.1Brief outline of various types of Microbes 1.2Archaebacteria, Eubacteria, Cyanobacteria, Mycoplasma, Actinomycetes and Virus. 1.3 Beneficial and harmful roles.	12
	History of Botany, Palebotany, Prokaryotes, Eukaryotes, Al	gae, Bryophyta,
Pteridophyta, Gy	vmnosperms, Fungi, Mycorrhiza, Lichens, Bacteria, Virus Part C-Learning Resources	
	Text Books, Reference Books, Other resources	
Suggested Read	ings:	
	Ogunseitan, Microbial Diversity: Form and Function in Proka	aryotes, Wiley
Blackwel	,	. 7.1 11.1 2001
	M.J et al., Microbiology, Tata McGraw-Hill Co, New Dell	
edn., 200	, L. Harley, J. and Klein, D. , Microbiology, Tata McGraw-	HIII Co. New Deini,6th
	E., The Structure & Reproduction of Algae, Vol. I & Vol. 1	1 CambridgeUniversity
	mbridge, U.K. 1945.	, <u>B</u>
	.M., Cryptogamic Botany, Vol. I: Algae, Fungi, & Lichens, M	cGraw-Hill Book
	York, 1955.	
6. IanMorri	s, An Introduction to the Algae, Hutchinson, London, 196	7.

		Par	rt A Intr	oduction		
Progra	m: Certificate	Class: I Seme		Year: I	Ses	sion:2022 -23
		Subject	t : Botan	y Practic	a l	
1	Course Code		S1-BOTA2	P		
2	Course Title		Basic Bot	any Practical		
	Course Type (Core Course/Elective/Gene Elective/Vocational/		Elective			
4	Pre-requisite (if any)		•	this course, a st Life science/A		e had the subject of lass 12th.
	Course Learning outo (CLO)	comes	• I	he laboratory, interpreting plan various groups	nt morphology of lower and h able to identify	and anatomy of igher plants. the major groups of
6	Credit Value	,	2	Cr	edits	
7	Total Marks		Max. Mar	rks: 40+60	Min. P	assing Marks:35
		Part B	- Conte	nt of the Cou	ırse	
OTota L-T-P	al No. of Practical- 30	HoursTuto	orials- 00	-Practical (2	hours per wee	k):
Unit	Topics					No. of Practical
I to V	Stem, root and 2. Specimen st 3. Study of fuga	d leaves udy of Pterid al structures a copus, Asper imenthospoi slides of Pu rious funga of symptoms	ophytes a and preparigillus, Yestium. uccinia or all plant di sof virus a	ration of tempor east, Pencillium n host. seases	ns Cones ary mounts of , Alternaria,	30

Keywords/Tags: Microscope, Algae, Bryophyta, Pteridophyta, Gymnosperm Fungi

Part C-Learning Resources

Text Books, Reference Books, Other resources

Suggested Readings:

- 1. Bendre Ashok and Ashok Kumar , A Textbook of Practical Botany, vol. 1, Rastogi Pub., Meerut, 1984.
- 2. Pandey B.PModern Practical Botany,., vol. I, S. Chand and Co. Ltd., N. Delhi, 17th edn., 1999.
- 3. Singh M.P., Chaudhary S.B. and Sahu H. BA Textbook of Practical Botany, Daya Pub. House, N. Delhi. 2005.
- 4. Shahezad, Aki I Mohd., Practical Botany, Shanti Prakashan, Gwalior, 2016.
- 5. Elizabeth Margaret and Angela GPractical manual of Botany, vol.1, New Age (Pub.) Ltd., Delhi, 2007.

Suggestive digital platforms web links --

Suggested equivalent online courses: ---

	Part A Introduction	
Program- CERTIFICATE	Class: BSc-II Semester Year: I	Session:2022-23
	Subject – Chemistry	
Course Code	S1-CH	EM2T
Course Title	Analytical Chemistry	
Course Type	Elective	
Pre-requisite (if any)	To study this course students must have Chemistry in class +2 or equivalent.	ve had the subject
Course Learning Outcomes (CLO)	 By the this course students will learn to the state of th	s for Chemists. emistry and steps involved in r for chemists. quilibrium. and
Credit Value	2	
Total marks	Maximum Marks: CCE-40 University Exam (UE)-60	Minimum Passing Marks:35

	Part B – Content of the course	
Total N	No. of Lectures-Tutorials-Practical (In hours per week): L-T-P: 90-0-30	
Unit	Topic	No. of Lectures
1	Chemical Equilibrium: Equilibrium constant and free energy, concept of chemical potential, Thermodynamic derivation of law of chemical equilibrium. Temperature dependence of equilibrium constant; Van't Hoff reaction isochore, Van's Hoff reaction isotherm. Le-Chetelier's principle and itsapplications. Keywords/Tags: Chemical Equilibrium, Equilibrium constant, Free Energy, ChemicalPotential.	
2	Chromatography: Introduction, Principle and Classification. Mechanism of separation: adsorption, partition & ion-exchange. Development of chromatograms: frontal, elution and displacement methods. Paper Chromatography (ascending, descending and circular), Thin layer Chromatography (TLC) and Column Chromatography (CC), Gas Chromatography (GC) and High Pressure Liquid Chromatography (HPLC), types of column and column selection, applications, limitations. Principle and Application of: • Flash chromatography, • Ion-exchange chromatography and • Chiral chromatography. Keywords/Tags: Chromatography, Ion Exchange, Column Selection, Adsorption.	10

3	Spectrum techniques of analysis Basic of absorption spectroscopy: Electromagnetic radiation, Spectral range. Absorption, Absorptivity, Molar Absorptivity, Fundamental Laws of Absorption, Lambert-Beer Law and its limitations. Constitution & working of photometer, spectrometer, colorimeter.	10		
	Ultraviolet (UV) absorption spectroscopy-			
4	Presentation and analysis of UV spectra, Types of electronic transistions, Effect of conjuction. Concept of chromphore and auxochrome. Bathochromic, hypsochromic, Hyperchromic and hypochromic shifts. UV spectra of conjugated polyenes and enones.			
	Infra-red (IR) absorption spectroscopy- Molecular vibrations, Hooke's law, selection rules, intensity and position of IR bands, Measurement of IR spectrum, finger print region, characteristic absorption of various functional groups and interpretation of IR spectra of simple organic compounds.			
	Keywords/Tags: Hypsochromic, Hypochromic, Absorption, Spectrum			

Part C- Learning resources

Text Books, Reference Books, Other Resources

Text Books

- 1. Gaur, S., Computer for Chemists, Neel Kamal Prakashan, 2017.
- 2. Khopkar, S.M. Basic Concept of Analytical Chemistry, New Age, Internations Publisher, 2009.
- 3. Kaur H, Analytical Chemistry, Pragati Prakashan (2008).
- 4. Gupta, Alka L., Analytical Chemistry, Pragati Prakashan (2020).
- 5. Bahl, A. & Bahl, B.S. Advanced Organic Chemistry, S. Chand, 2010.
- 6. Kaur H, Instrumental Methods of Chemical Analysis, Pragati Prakashan, 2018.
- 7. Sharma B.K., Chromatography, Krishna Prakashan, 2019.
- 8. Sharma Y.R., Elementry Organic Spectroscopy, S Chand, 2013.
- 9. Singh, DR Saxena, G., Singh, B., Inorganic Chemicals, Shivlal Aggrawal & Company, Agra.
- 10. Srivastava, S.S., Gehlot, A.S., Chemistry, Ratan Prakashan Temple, Indore.

- 11. Soni, PL, Organic Chemistry, Sultan Chand and Sons, Delhi.
- 12. Singh, R.K.P., Modern Chemistry, Sahitya Bhavan, Agra.
- 13. Agnihotri, PK, Sahu, D
- 14. P., Pillai, A., Sahu, M., Yugbodh Chemistry, Yugbodh Publications, Raipur.

Reference Books:

- 1. Mitra Surbhi, Handbook of Computer Science & IT, Arihant, 2018.
- 2. Harris, D.C. Quantitative Chemical Analysis, 6th Ed., Freeman (2007).
- 3. Christian, Gary D; Analytical Chemistry, 6th Ed. John Wiley & Sons, New York, 2004.
- 4. Barrow, G.M. Physical Chemistry, Tata McGraw-Hill (2007)
- 5. Atkins' Physical Chemistry, 10th Edition, Oxford University Press 2014.
- 6. Gurtu J.N. Gurtu A, Advanced Physical Chemistry, Pragati Prakashan, Meerut, ISBN:9789386633347, 9386633345; Edition: IV,2017.
- 7. Atkins, P.W. & Paula, J. Physical Chemistry, Oxford Press, 2016.
- 8. Finar, I.L. Organic Chemistry (Vol. I & II), E.L.B.S.
- 9. Morrison, R.T. & Boyd, R.N. Organic Chemistry, Pearson, 2010.
- 10. Banwell, Molecular Spectroscopy, 2017.
- 11. Silverstien Robert, Spectrometric Identification of Organic Compounds, Wiley, 2014.
- 12. Dyer J.R., Applications of Absorption Spectroscopy of Organic Compounds, 2009.

Suggested equivalent online courses:

MOOC: https://www.edx.org/course/basic-analytical-chemistry

NPTEL: https://nptel.as.in/courses/104/105/104105084/

Web sources

- 1. https://www.freebookcentre.net/Chemistry/Analytical-Chemistry-Books.html
- 2. https://nptel.springer.com/journal/216

	PRACTICAL				
	ogram- RTIFICATE	Class: BSc-II Semester	Year: I	Session: 2022-23	
		Subject – Cl	hemistry		
1	Course Code		S1-CHEM2P		
	Course Title	Analytical Processes and Tech	niques		
2	Course Type	Elective			
3	Course Learning Outcomes (CLO)	1. Concepts and analytical m 2. Preparation of solutions of 3. Standardization of the solu 4. Identification of Organic c 5. Analysis by Spectral Techn	ethods in Chemistry. f different concentrations. ation. ompounds by chromatographic te		
4	Credit Value	2			

	External Assessment	Ma r ks
	Experiments to be performed in laboratory	50
1	Quantitative Analysis by Colorimetry	10
	Verification of Lambert-BeerLaw	
	• Determination of concentration of coloured compounds (e.g., CuSO ₄ , KMnO ₄)	
2	Qualitative Analysis	10
	Systematic identification of organic compound by qualitative analysis.Chromatography:	
	Identification by determination of the R_f values of the given organic/ inorganic compounds by paper/thin layer chromatography.	
	Keywords/Tags: Analytical, Authentication, Molarity/Normality, Standardization, Colorimetry, Qualitative Analysis	

Part C- Learning resources

Text Books, References Books, OtherResources

References:

- 1. Skoog, D.A. and Leary, J.J.: Instrumental Methods of Analysis, Saunders College Publications, New York, 1992.
- 2. Vogel's textbook of quantitative chemical analysis, 7th edition.
- 3. Goswami A.K., Mehta Anita, Khanam Rehnaa, ORS., UGC Practical Chemistry VOL. I, Pragati Prakashan, 2015.
- 4. Goyal Sudha, B.Sc. Chemistry Practical, Krishna Publication, 2017.
- 5. Tandon, M.N., unified Rasayan Vigyan, Shivlal Agarwal & Company, 2018.

Suggestive digital platforms web links:

- 1. https://www.youtube.com/watch?v=OAImRDzuTh8
- 2. http://amrita.olabs.edu.in/?sub=73&brch=8&sim=133&cnt=1
- 3. http://chemcollective.org/vlabs
- 4. http://mas-iiiith.vlabs.ac.in/exp6/Quiz.html
- 5. <a href="https://chem/libretexts.org/Ancillary_Materials/Laboratory_Experiments/Wet_Lab_Experiemtnts/General_Chemistry_Labs/Online_Chemistry_Lab_Manual/Chem_9_Experiments/02%3A_Paper_Chemistry_Lab_Manual/Chem_9_Experiments/02%3A_Paper_Chemistry_Density_Chemistry_Chemistry_Chemistry_Density_Density_Chemistry_Density_Dens
- 6. https://edu.rsc.org/experiment/leaf-chromatography/389/article
- 7. https://edu.rsc.org/experiments/chromatography-of-sweets/455.arti cle
- 8. http://swe.mit.edu/outreach/virtual resources/paper chromatograp hy.pdf
- 9. http://www.chem.latech.edu/-deddy/chem104/104Standard.htm
- 10. https://www.chem.purdue.edu/course/chm224/Miscelleneous/Mod el_report_Expt2-revised 2009.pdf

		DADE A TALL						
Drogram : (Program : Certificate Program : Certificate Class: BSc-II Year: Session: 2022-							
1 Togram .C	ei tilicate	Semester	I car.	23				
		Subject : Computer	Science					
1.	Course Code		S1-CO	SC2T				
2.	Course Title	Programm	ing Methodo	ology & Data Structure				
3.	Course Type (Core Course/Elective/Generic Elective/Vocational)		Elec	tive				
4.	Pre-Requisite (if any)	To study this course Physics/Maths in 12 th		ust have had the subject				
5.	Course Learning Outcomes(CLO)	 Develop simple problem with problem with principles. Writing efficie algorithms/pro Learn to formula algorithms for Use the recursion programmin Will be familiate implementation algorithm in both the service of the programmin of the service of the service	e algorithm are programming ont and well stagrams. In a stagrams in the problems in the technique of the functional ge of complements of the choose a day of the choose and general search on the stochoose and general search the choose and general	learners will be able to: Ind flow chart to solve the using top down design cructured computer solutions and array processing pointers and searching methods mental data structure, their crustomed to the description of and procedural styles with of basic operations like the data structure to suitably model any cations. The plications of algorithms for algorithms for algorithms for algorithms for and in the field of programming				

Sri SatyaSai University of Technology & Medical Sciences, Sehore (M.P.)

		data structures.				
6.	Credit value		Theory-2 Credits			
7	Total Marks	Max .Marks : 60+40	Max .Marks : 60+40 Min. Passing Marks :35			
		Part B:Content Of the	Course			
	No. of Le	ctures (in hours per week):	2 Hours per week			
	Total No. of Lectures :60 HRS.					
Module		Topics		No. of Lectures		

I	Queue –Definition, operation, array and linked implementations.	10
	Circular Queue- insertion and deletion operations ,Dequeue (Double	
	ended Queue) ,priority Queue-Implementation.	
	Trees: Binary Tree Representation – Properties of Binary	
	Tree ,Binary Tree Representation,-Arrayand Linked Representation,	
	Binary Tree Traversal, Threaded Binary Tree.	
	Heap: Definition, Insertion, Deletion.	
II	Graphs - Graph ADT, Graph Representation Graph Traversals,	10
	searching.	
	Hashing - Introduction, Hash tables, Hash functions, Overflow	
	Handling	
	Sorting Methods – Comparison Sorting Methods.	
	Search Tree-Binary Search Tree, Avl Tree – definition and Examples.	
III	Indian contribution to the field – Innovation in India, Origin of Julia	2
	Programming Language, Indian Engineers who designed new	
	programming Languages, open sourselanguages, Dr. Sanjay Sahni-	
	Computer Scientist- pioneer of Data Structures, other relevant	
	contributors and contributions.	

Keywords /**Tags**: Programming, C++, Data Structure, Expressions, Control, File Handling, Arrays, Stack, Queue, Linked List, Tree, Graphs, Structure, Union, Search, Algorithm.

PART C: Learning Recourses

Textbooks, References Books, Other Recourses

	PART A: Introduction					
Progra	Program :Certificate Class: Year: Session:2022- BSc-II I 23 Semester					
	Subject : Computer Science					
1.	1. Course Code S1-COSC2P					
2.	Course Title	Offic	ce Tools & I	Programming MethodologyLab		

Suggested Readings:

- Lipschutz: Schaun's outline series Data Structure, Tata Mcgraw Hill
- Problem Solving and Program Design in C,J.R.Hanly and E.B.Koffman ,Pearson.2015
- E.Balaguruswamy,"C++TMH Publication ISBN O-07-462038-X.
- HerbertzShield,"C++ the complete References" TMH Publication.
- R.Lafore, 'Object Oriented Programming C++.
- N. Dale and C. Weems, Programming and Problem solving with C++: brief edition, Jones & Bartlett learning.
- Adam Drozdek," Data structure and Algorithms in C++", Third edition Cengage Learning.
- SartajSahani, Data Structure ,Algorithms and Applications with C++ ,McGraw Hill.
- Robert L. Kruse," Data Structure and Program Design inC++',Pearson.
- D.S. Malik, Data Structure using C++, Second Edition, Cengage Learning.
- M.A. Weiss Data structure and Algorithms Analysis in C,2nd edition Pearson.
- M.A. Weiss, Data structure and Algorithm Analysis in C,2ndedition, Pearson.

Suggested Digital Platforms ,Web links :

- 1. https://www.youtube.com/watch?v=BC1S40yzssA
- 2. https://www.youtube.com/watch?v=vLnPwxZdW4Y&vl=en
- 3. https://www.youtube.com/watch?v=Umm1ZQ5ltZw
- 4. https://www.youtube.com/watch?v=AT141CXuMKI&list=PLdo5W4Nhv31bbkJzrsKfMpogrxuLl8LU

Suggested equivalent online course

http://nptel.ac.in/courses/106/105/106105151/http://nptel.ac.in/courses/106/106/106106133/

Any remarks /Suggestions: Focus of the course /teaching should be on developing ability of the student in analyzing a problem, building the logic and efficient code for the problem.

Pre-Requisite (if any)		
1 ()	To study a student m /Maths in 12th Class	ust have had the subject Physics
Course Learning Outcomes(CLO)	 On the Completion of this course learners will be able- Develop simple algorithms and flow Chart to solve a problem with programming using top down design principles. Writing efficient and well structured computer algorithms/programs. Learn to Formulate iterative solutions and array processing algorithms for problems. Use recursive techniques, pointers and searching methods in programming. Possess ability to choose a data Structure to suitably model any data used in computer applications. Implementation of algorithms for searching 	
Credit value	Prac	ctical -2 Credits
Total Marks	Max .Marks : 60+40	Min. Passing Marks :35
No. of Lab Practica	l's(in hours per week)	:2Hrs. Per week
	Course Learning Outcomes(CLO) Credit value Total Marks PART No. of Lab Practical	Course Learning Outcomes(CLO) On the Completion able- 1. Develop simple solve a problet down design p 2. Writing efficie algorithms/pro 3. Learn to Form array processin 4. Use recursive searching meth 5. Possess ability suitably model applications. 6. Implementation and sorting. Credit value Prace Total Marks Max .Marks:

Suggested list of Practical's

Using a Presentation Tool

- 1. Design a presentation of your institute using auto content wizard, design template and blank presentation.
- 2. Design a presentation illustrating insertion of pictures, Word Art and Clipart.
- 3. Design a presentation, learn how to save it in different formats, copying and opening an existing presentation.
- 4. Design a presentation illustrating insertion of movie, animation and sound.
- 5. Illustrate use of custom animation and slide transition (using different effects).
- 6. Design a presentation using charts and tables of the marks obtained in class.
 - I. Given a problem statements ,students are required to formulate problem,developflowchart/Algoriyhm,wri te code in C++,execute and test it.

 Students should be given assignments on following:
- A. To learn elementary technique involving arithmetic operators and mathematical expressions, appropriate use of selection (if, switch, conditional operators) and control structures.
 B.Learn how to use functions and parameter passing in functions, writing recursive programs.
- 2. Write a program to swap the contents of two variables.
- 3. Write a program for finding the roots of a quadratic education.
- 4. Write a program to find area of a circle, reactangle, square using switch case.
- 5. Write a program to check whether a given number is even or odd.
- 6. Write a program to print table of any number.
- 7. Write a program to print Fibonacci series.
- 8. Write a program to find factorial of given number.
- 9. Write a program to convert decimal (integer) number in to equivalent binary number.
- 10. Write a program to check given string is palindrome or not.
- 11. Write a program to perform multiplications of two matrices.
- 12. Write a program to print digits of entered number in reverse order.
- 13. Write a program to print sum of two matrices.
- 14. Write a program to print multiplication of two matrices.

30 Hours

- 15. Write a program to generate even/odd series from 1 to 100.
- 16. Write a program whether a given number is prime or not.
- 17. Write a program for call by value and call by reference.
- 18. Write a program to generate a series 1+1/1!+2/2!+3/3!....+n/n!.
- 19. Write a program to create a pyramid structure

**

20. Write a program to create a pyramid structure

1

12

123

1234

- 21. Write a program to check entered number is Armstrong or not.
- 22. Write program for traversing an Array.
- 23. Write a program to input N numbers, add them and find average.
- 24. Write a program to find largest element from an array.
- 25. Write a program for linear search.
- 26. Write a program for binary search.
- 27. Write a program for bubble sort.
- 28. Write a program for selection sort.

Keyword /Tags: Digital Electronics ,Logic gates ,AND ,OR,NOT ,IC 7486,IC 7400,NAND ,NOR,IC 7483, Circuit , Flip Flop , Demorgan's Theorem

Part C: Learning Recourses

Textbooks, References Books, Other Recourses

Suggested Readings:

- M.Morris Mano, "Computer System Architecture " PHI
- Heuring Jordan, "Computer System Design & Architecture" (A.W.L.)
- William Stalling ," Computer Organization & Architecture ", Pearson Education Asia.
- V.CarlHamacher," Computer Organization "TMH
- Tannenbaun, "Structured Computer Organization "PHI.

Suggested Digital Platforms, Web links:

- 1. https://www.youtube.com/watch?v=4TzMyXmzlL8M
- 2. https://nptel.ac.in/course/106/106/106106166/
- 3. https://nptel.ac.in/course/106/106/106106134/

Suggested Equivalent online course

http://nptel.ac.in/course/106/105/106105163

Part A- Introduction					
Program : Certificate Class: I		I Year:	Session:2022-		
	Semester	I	23		
	Subj	ect: Mathematics			
Course Code			S1-MATH2T		
Course Title	Cal	culus and Differe	ential Equations		
Course Type			Elective		
(Core/Elective/ Ge	neric				
Elective/Vocation:	al/)				
Pre-requisite (if any)		To study this course, a student must have had the subject			
		Math	nematics in 12 class.		
Course Learnir	rg The	The course will enable the students to:			
Outcomes (CLC	O)				
			in a plane using its Mathematical ne different coordinate systems of		
		reference.			
		_	vatives in Optimization, Social ics and Life sciences etc.		

	Mathematical models.	4. Using techniques to solve and analyze various		
Credit Value	4	4		
Total Marks	Max. Marks: 60+40	Min. Marks: 35		

Tota	al numbers of Lectures(in hours per week): 3 hours per w	veek
	Total Lectures: 90 hours	
Unit	Topics	Numbers of Lecture
1	4.1 Linear Differential Equations 4.1.1 Linear equation 4.1.2 Equations reducible to the linear form 4.1.3 Change of variables 4.2 Exact Differential equations 4.3 First order and higher degree Differential equations 4.3.1 Equations solvable for x, y and p 4.3.2 Equations homogenous in x and y 4.3.3 Clairaut's equation 4.3.4 Singular solutions 4.3.5 Geometrical meaning of Differential equations 4.3.6 Orthogonal trajectories	18

2	5.1 Linear Differential equation with constant coefficients 5.2 Homogeneous linear ordinary Differential equations 5.3 Linear Differential equations of second order 5.4 Transformation of equations by changing the Dependent/Independent variables 5.5 Method of Variation of parameters	18
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Keywords/Tags:

Indian Mathematics, Successive Differentiation, Partial Differentiation, Asymptotes, Curvature, Tracing of Curves, Quadrature, Rectification, Linear Differential Equations, Method of Variation of Parameters.

Part C-Learning Resources
Text Books, Reference Books, Other resources

Suggested Readings:

Text Books:

- 1. Gorakh Prasad: Differential Calculus, Pothishala Pvt. Ltd. Allahabad, 2016.
- 2. Gorakh Prasad: Integral Calculus, Pothishala Private Lld.. Allahabad, 2015.
- 3. M. D. Raisinghania: Ordinary and Partial Differential equations. S Chand & Co Ltd., 2017.
- 4. Gerard G. Emch, R.Sridharan and M. D. Srinivas: Contributions to the History of Indian Mathematics, Hindustan Book Agency, vol. 3, 2005.
- 5. Madhya Pradesh hindi granth academy books.

Reference Books:

- 1. N. Piskunov: Differential and Integral Calculus, CBS Publishers, 1996.
- 2. G. F. Simmons: Differential Equations, Tata McGraw Hill, 1972.
- 3. E. A. Codington: An introduction to ordinary differential Equation, Prentice Hall of India, 1961.
- 4. D. A. Murray: Introductory Course in Differential Equations, Orient Longman (india), 1967.
- 5. H. T. H Piaggio: Elementary Treatise on Differential Equations and their Application, C. B.S. Publisher & Distributors Delhi, 1985.
- 6. Bibhutibhusan Datta and Avadhesh Narayan Singh: History of Hindu
 Mathematics, Asia Publishing House,1962.

		Pai	rt A Introduction		
Prograi	m Certificate Course	Class: BSc-II Semester	Year: I	Session:2 022-23	
		2011102001	Subject : Mic	robiology	
1	Course Code			S1-MBIO2T	
2	Course Title		Microbial Technic	anes	
3	Course Type		Elective		
4	Pre- requisite (if any)		To Study this coursubject	se a student must have had the	
5	Course Learning outcome (CLO) Credit Value	S	student shall have Recall the b the laborate Summarize sterilization Understand of instrume Apply seria the bacteria Practice diff bacteria in Illustrate a recommender.	passic lab glassware to be used in ory. different methods of and isolation of pure cultures. the working of different kinds ents and microscopes. I dilution technique to isolate	
7	Total Marks	Maxi	mum Marks:60+40	Minimum Passing Marks:	
		Part R	Content of the Cour	35	
	Total no of I Lectures- Tutorials- pra	Lectures –60 actical (in ho		P:4-0-0 s: 15	
Unit 1	Topics Sterilization and culture n	nadium		No. of Lectures	
1	3.1 Physical methods of stee heat, radiation, filtration, an 3.2 Chemical methods of sphenolic compounds, Alcoh detergents. 3.3 Types of culture media complex, enriched, and sele glycol ate broth, Robertson' aerobic bacteria.	erilization: Indication in the control of the contr	n. Phenol and and thetic, bic (Trio		
B.Sc I st Y	Year (II sem)			Wef-2022-2	

1	words: Physical sterilization, Chemical ilization, microbial culture media.	
4.1 4.2 wate 4.3 and metl Isola 4.4 I long 4.5 0 non-	Natural microbial population- Pure culture Isolation of microbial population- From air, er, and soil. Methods for isolation: Streak plate, pour plate spread plate. Serial dilution and micromanipulator hods. Cultivation on liquid and solid media, ation of micro organisms on potato slice and bread. Maintenance and preservation for short term and g term. Cultivation OF Anaerobic bacteria, and accessing cultivable microorganisms. words: Pure culture, isolation of microbes, hervation of culture.	
	Part C-Learning Resou	
1 2 3 4 5 6 7 8	Text books, Reference Books, Otgested Reading: Pelzer, M.J., , E.C.S and Krieg, N.R. "Microl DELHI,(2001) Tortuga G.J, Finke Br, Case "Microbiology". A Education (2008) Willey J.M., Sherwood L.M., Wool verton C.J. edition (2013) Madigan, M.T., Marino, J.M., Dunlap, P.V. Al Microorganisms, 12th edition, Pearson Benjamin C. Sum Bali, Gaeta and Mathura, R.S., "Principles edition.(2017) Agatha Narayan, R. and Picnicker, C.K.S., "Text Oriental Longman Publication, U.S.A (2000). Dubiety, R.C., And Maheshwari, D.K., "Text b Company Ltd., New Delhi.(2008). Sharma, P.D., "Microbiology". Kasogi Publication Singh, R.P., "Applied Microbiology". Kalian Publ Shimmy, Q.J., "Microbiology"-I". Kailās Sadden, E.	An Introduction, 9th edition Pearson, "PRESCOTT'S Microbiology", 9th ND Clark D.P., "Brock Biology of Cummings, San Francisco (2009). To of Microbiology" M.C. Grew Hill the book of microbiology", 6th edition ook of microbiology". S. Chand & S., Meerut. (2014).
Sug 1	gested equivalent online courses: . https://www.com.mooc-list.com/course/small-and-futurelearn	-mighty-introduction-microbiology-

2.	https://www.mooc-list.com/course/microbiology-saylororg
3.	https://www.mooc-list.com/course/bacteria-and-chronic-infections-coursera
4.	https://www.coursera.org/lecture/bacterial/-infections/1-1-introduction-to-bacteria-by-
	bioinformaticstician-phd-peder-worning-HZ64m
5.	https://www.openstax.org/books/microbiology/pages/1-3-types-of-microorganisms
1	https://www.openstax.org/books/interoorology/pages/1-5-types-or-interoorganishis
6.	https://openstax.org/books/microbiology/pages/4-1-prokaryotic-habitats-relationships-
	and-microbiomes
7.	https://swayam.gov.in/explorer?searchText=microbiology
1	

	Part A Introduction				
Progr	am Certificate Course	Class: BSc-	Year: I	Session:20	
		II Semester		22-23	
		Subject : Mic	robiology		
1	Course Code		S1-	MBIO2P	
2	Course Title	Microbial To	ools and Techn	iques Practical	
3	Course Type	Elective			
4	Pre- requisite (if any)	To Study this course a student must have had the subject			
5	Course Learning outcomes (CLO)	On completion of this course, learners will be able to understand: Basic Knowledge of glassware, microscopes and different kinds of instruments used in the microbiology laboratory. Basic media preparation technique, autoclaving cleaning and sterilization of glassware. Preparation of liquid and solid culture media. Isolation of microorganisms by different plating methods.			
6	Credit Value	2			
7	Total Marks	Maximum M	arks:60+40	Minimum Passing Marks: 35	
Part F	B – Content of the Course	1		'	

Total No. of Lectures:30

Lectures – Tutorial – Practical (In hours per week): L-T-P: 0-0-2

S.	Name of the Exercise	No. of Lab
No.		Hours
1.	Isolation of fungi from water, soil and air by serial dilution agar plating method.	3
2.	Isolation of microorganisms by pour plate method.	3
3.	Isolation of microorganisms by streak plate method	3
4.	Isolation of microorganisms by spread plate method.	3
5.	Any other experiment may be designed on the basis of theoretical aspects.	1

Keywords: Basic instruments, Culture media, pour plate, streak plate, spread plate.

Part- C Learning Resources

Text Books, References, and other Resources Books

- **1.**Cappuccino ,J and Sherman, N., "Microbiology : A Laboratory Manual ", 9th edition .Pearson Eduction Limited .(2010).
- 2. Dubey, R.C. and Maheswari, D.K., "Practical Microbiology", S. Chand & Co. Ltd., New Delhi
- 3.M. Gopoal Reddy, M., Reddy m.n. Saigopal, D.V.R. and Mallaiah K.V.," Laboratory Experiments in Microbiology", Himaliya Publishing House, Mumbai (2007).
- 4. Aneja, K.R., "Laboratory Manual of Microbiology and Biotechnology.2:Edition", Meditech Scientific International .(2018).
- 5. Patel, Rakesh J and Patel Kiran, R., "Experiments Microbiology Vol. I and Vol. II", Aditya Prakashan

Ahmadabad. (2009).

- 6. Varghese, Naveen and Joy, V," Microbiology Laboratory Manual "ED.1, Aromatic and Medicinal Plants Research Station, Odakkali, Ernakulam, Kerala. (2014).
- 7.Shammi, Q.J. "Microbiology-Tools and Techniques", KailashPustaksadan ISBN 978-81-89900-38-0 (In hindi also)
- 8. Grainger. John, Hurst Janet and Burdass. Dariel, "Basic Practical Microbiology: A Manual". The Society for General Microbiology. (2001).

Suggested Digital Platform /Web Links:

- 1. https://www.mooc-list.com/course/introduction-practical-Microbiology-futurelearn
- 2. https://study.com/articles/List_of_Free_Online_Microbiology Courses and Training Options.html

		Part A- Introduction		
Program:Certificate	rogram:Certificate Class: BSc-I Semester		Year: I	Session:2022-23
		S	ubject: Physics	
Course C	ode			S1-PHYS2T
. Course T	Title	Med	chanics and Genera	al Properties of Matter
Course Type				Elective
(Core/Elective/	Generic			
Elective/Vocat	ional/)			
Pre-requisite (if any)		T		a student must have had the subject ysics in 12" class.
Course Lea	rning	•		
Outcomes (1. The course would empower the students to develop idea about the behavior of physical bodies. 2. It will provide the basic concepts related to the motival the objects around us in daily life. 3. The students would be able to build foundation to various applied field in science and technology especially in the of mechanical engineering. 4. The students will acquire the knowledge of mathematical methods to solve the various problem physics. 5. The students will be able to understand the relative effect and the relation between energy and mass.		of physical bodies. asic concepts related to the motion of in daily life. be able to build foundation to various and technology especially in the field ing. acquire the knowledge of basic to solve the various problems in the able to understand the relativistic between energy and mass.
Credit Va				2
Total Mar	rks		Max. Marks: 60+4	Minimum passingMarks:35

	Part B- Content of the Course	
Unit	Total numbers of Lectures(in hours):60 Topics	Numbers of
Onic	Topics	Lectures
I	Gravitational potential and central forces	12
	1.1. Conservative and non-conservative force field, Conservation of energy in motion under the conservative and non-conservative forces, Potential energy. 1.2. Conservative force, Conservation of energy, Gravitational potential and gravitational potential energy, Gravitational potential and intensity of gravitational field due to uniform spherical shell and a uniform sold sphere. 1.3. Gravitational self-energy, Gravitational self-energy of a uniform spherical shell and a uniform solid sphere. 2 Central forces: 2.1. Motion under Central forces, Conservative ve characteristics of central forces. 2.2. The motion of a two particles system in Central force, Concept of reduced mass, Reduced mass of positronium and hydrogen. 2.3. Motion of particles in an inverse-square central force, Motion of celestial bodies and derivation of Kepler's laws, 2.4. Elastic and inelastic scattering (elementary idea). Keywords/Tags:Conservative force field, Gravitational potential, Gravitational self-energy, Central force, reduced mass, Scattering.	
Π	Relativistic Mechanics: 1. Relativistic Mechanics: 1.1. Frame of references, Galilean transformation, and Michelson Morley experiment. 1.2. Postulates of special theory of relativity, Lorentz Transformation, Simultaneity and order of events, Length contraction, Time dilation, Relativistic transformation of velocities, Variation of mass with velocity. 1.3. Mass-energy. Equivalence and its experimental verification. 2. Astrophysics: 2.1. Introduction to the Universe, Properties of the Sun, Concept of Astronomical Distance. 2.2. Life cycle of stars, Chandrasekhar Limit, H-R diagram, Red giant star, White dwarf star, Neutron star, Black hole, 2.3. Big Bang Theory (elementary Idea).	12

Keywords/Tags: Astronomical distan	Transformation, ce, Chandrasekhar lir	Mass-energy nit, Black hole.	equivalence,	

Part C-Learning Resources

Text Books, Reference Books, Other resources

Suggested Readings:

- 1. Spiegel M. R., "Vector Analysis: Schaum Outline Series", McGraw Hill Education, 2017.
- 2 Mathur D. S., "Mechanics", S. Chand, 2012.
- 3. Ghatak A. K., Goyal I.C. and Chua S.J., "Mathematical Physics", Laxmi Publications Private Limited, 2017
- 4. Mathur D. S., "Properties of Matter", Shyamlal Charitable Trust, New Delhi.
- 5. Sears and Zeemansky, "University Physics", Pearson Education.

Suggested equivalent online courses:

- 1. https://nptel.ac.in/courses/115/103/115103036/ Mathematical Physics by Dr. SaurabhBasu, Department of Physics, Indian Institute of Technology Guwahati
- 2. https://nptel.ac.in/courses/115/106/115106090/ Mechanics, Heat, Oscillations and Waves by Prof. V. Balakrishnan, Department of Physics, Indian Institute of Technology, Madras

Any remarks/ suggestions:

	Pa	rt A- Introdu	iction		
Program: Class: BSc-II		Year: I		Session:2022-	
Certificate	Semester			23	
		Subject: Phys			
Course Code			S1-PH	YS2P	
. Course Title		Mechanics	and General P	roperties of Matter	
		Lab		ıb	
. Course Type			Elec	tive	
Core/Elective					
Elective/Vo	cational/				
Pre-requis	site (if any	To study this course, a student must have had the subject Physics in 12" class.			
Course Learning		1. The	students	would acquire bas	
Outcome	es (CLO)	practicalkn theexperim	_	d to mechanics throu	
		1 -		· with variousmeasureme	
			2. Students will be familiar with various measurement devices by which they can measure various physical		
			quantities with accuracy.		
		3. The students will develop the concept related toth			
			and properties of	= =	
Credit	Value		2	2	
Total I	Marks	Max. N	Marks: 60+40	Min passing Marks :3:	

B.Sc Ist Year (II sem) Wef-2022-23

Part B- Content of the Course Total numbers of Lectures(in hours):60

	Ī	Part A Introduction	
Program Certificate Course	Class: BSc-II	Year: I	Session:2022-

Sr.No	List of experiments	Number of Practical
1	Determination of modulus of rigidity of material of a wire with thehelp of Maxwell's needle.	(in hours)
2	Determination of Young's Modulus of a material of a rod using Cantilever method.	
3	Determination of modulus of rigidity of material of a wire with thehelp of torsional pendulum.	
4	Determination of force constant of a spring.	
5	Determination of Poisson's ratio of rubber.	
6	Determination of surface tension of a liquid by Jaeger's method.	

Part C-Learning Resources Text Books, Reference Books, Other resources

Suggested Readings:

- 1. PrakashI. &Ramakrishna, "A Text Book of Practical Physics", KitabMahal, 2011, 11/e.
- 2. Squlres G. L, "Practical Physics", CambridgeUniversity Press, 2015, 4/e.
- 3. Flint B. L. and Workshop H. T., "Advanced Practical Physics for 2015, students", 4/e Asia Publishing House, 197.
- 4. Chattopadhyay D. &Rakshit P. C., "An Advanced Course in Practical Physics", NewCentral Book Agency.

Suggestive digital platforms web links

- 1. https://www.vlab.co.in/broad-area-physical-sciences
- 2. https://storage.aoogleapis.com/unique courses/online.html

		Semester			
			Subject : ZOOL	<u>OGY</u>	
1	Course Code		S1-ZOOL2T		
2	Course Title		Cell biology, reproductive biology and developmental biology		
3	Course Type		ELECTIVE	-	
4	Pre- requisite (if any)		To study this course a subject Biology in class	student must have had the ss 12 th .	
5	Course Learning outcomes (CLO)		After completing this course in ZOOLOGY, a student shall have understanding of. Develop deeper understanding of what life is and how it functions at cellular level. Understand the nature and basic concepts of cell biology, Reproductive and Developmental biology. Understand structure and functions of cell membrane, and cellular organelles. Understand the importance of latest reproductive trends, reproductive techniques to be applied for human welfare. Understand the general patterns and sequential developmental stages during embryogenesis; understand how the developmental processes lead to establishment of body plan of multicellula organisms. Understand the the evolutionary development of various animals.		
<u>6</u>	Credit Value			2	
7	Total Marks			Minimum Passing Marks: 35	
	Total no of Lectures –6 Lectures- Tutorials- pra	<u>0 organisms</u>	B- Content of the Cours urs per week) L-T-P:4		
<u>Unit</u>	Topics A. D. L. L. D. L.			No. of Lectures	
Ī	4. Developmental Biolog 4.1 Fertilization 4.2 Embryonic developme layers 4.3 Fate map construction 4.4 Metamorphosis of Tal 4.5 Partheno genesis. Keywords: Fertilization, parthenogenesis.	nt of frog up in frog. e pole Larva.	:		

5.1 Structure of hen's egg. 5.2 Embryonic development of chick embryo unto the formation primitive streak. 5.3 Fate map construction in chick. 5.4 Extra embryonic membranes of chick, formation and functions. Keywords/tags: Hens egg, chick embryology, fate map, chick embryo membranes.
Part C-Learning Resources
Text books, Reference Books, Other resources
 Suggested Reading: Arm gam, ''A TEXT BOOK OF EMBRYOLOGY'', Sara's publications 2005. Babinski, BI, ''an Introduction to Embryology.'' CEng age learning 2012. De Roberti's, EDP De Roberti's, EMF, ''Cell and molecular biology,''8th edition, Williams &Wilkins, Philadelphia, 2006. Gupta, PK, ''CELL BIOLOGY, Genetics and evolution'', Rastogi publications 2013 Heffner, L, ''Human reproduction at a glance,'' BWL Publications, 2013. Larsen, Human Embryology,'' Churchill livingstone, 2001. Powar, CB, ''CELL BIOLOGY'' Himalya publishing House, 2010. Rastogi, VB, ''Animal Distribution aqnd developmental biology.'' KNRNPublication, 2020. Rastogi, VB,'' Introduction to Cytology,'' KNRN Publications, 1988. Sastry, KV, ''ENDOCRINOLOGY and Reproductive Biology'', rastogi p[ublication 2018 VERMA and AGRAWAL,'' A text Book of cytology,''S Chand & co. 1999 VERMA, PS, AGARWAL, VK ''Chordate Embryology,''S Chand & co. 2000. Pardesi, K and Dubey A, Cell & developmental Biology,'' Akhand publishing house, New Delhi, https://www.neai.nlm.nih.gov https://www.neai.nlm.nih.gov https://www.zoologylearningpoint.wordpress.com https://zoologyresources.com
Suggested equivalent online courses: 8. Sway am online courses https://storage.googleapis.com/uniquecourses/onlinehtml 9. National Digital Library https://ndl.iitkgp.ac.in 10. E- PG Pataskala (MHRD) PORTAL,(HTTPS://EPGP.INFLIBNET.AC.IN) 11. Science Direct Open Access Content (https://www.sciencedirect.com/book/9781843342038/openaccess)

	Part A Introduction PRACTICAL SYLLABUS						
Progra	m Certificate Course	Class: BSc-	Year: I	Session:2022-			
110g1 a	im Certificate Course		II Semester 23				
			ZOOLOGY	23			
1	Carrer Calls	S1-ZOOL2P	<u> ZOOLOGI</u>				
1	Course Code						
2	Course Title	CYTOLOG EMBROLO		CTIVE BIOLOGY &			
3	Course Type	ELECTIV	<u>E</u>				
4	Pre- requisite (if any)			nt must have had the subject			
<u>5</u>	Course Learning	On comple		course, learners will be able to			
	outcomes (CLO)	understand					
				of mitotic and meiotic cell division and			
		_	al types of chron				
			erent stages of er				
				parations understand the stage of cell			
				e of polygene chromosomes.			
				we learning and communication skills essions, team work group discussion			
			nments & projection				
<u>6</u>	Credit Value	2	innents & projec	,			
7	Total Marks		Marks:60+40	Minimum Passing Marks: 35			
Total N	- Content of the Course No. of Lectures:30		. I T D. 0 0 2				
Unit	<u>es – Tutorial – Practical (In h</u> TOPICS	ours per week): L-1-P: U-U-Z	No. of Lab Hours			
	Squash preparation of Grassh	annon tastis to a	and anoton detho a				
1	Meiosis	topper testis to t	inderstand the s	$\frac{9}{}$			
<u>2.</u>	Try pan Blue exclusion test o	f cell viability		<u>3</u>			
<u>3.</u>	Squash preparation of salivar larva/Drosophila	y gland chromo	osomes from Chi	ronomus 9			
KEYW	KEYWORDS: stages of cell division, stages of embryonic development squash preparation.						
	Part- C Learning Resources						
	Text Books, References, and other Resources Books						
-							
	ted reading:	oht I ('Evmanin	monta in musati	1 dayslanment higlagy? first adition			
1.	Віпа, ММ, Кпі Cambridge university press,201		nems in practica	l development biology", first edition			
2.			cular biology: a	lab manual'', PHI, 2013.			
3.	· · · · · · · · · · · · · · · · · · ·			erimental developmental biology',			
	academic press, 1998	, ,					
4.	TIGUNAYAT,			oology; biodiversity cell biology,			
	Genetics& development biology' 'scientific publishers,2019 5. Virtual Labs (https://www.vlab.co.in)						



Sri SatyaSai University of Technology & Medical Sciences, Sehore (M.P.)

Cubinat	C
Subject	Commerce
Course Code	C1-COMA1G
Course Title	Basics Of Business Studies
Course Type	Elective
Pre-Requiste	Not Required Open For All
Course Objectives	To impart basic knowledge of the basiiness relevant to business activities.
Course Learning Outcomes	The Successsful completion of this course shall enable the students: The course will be helpful to provide basic knowledge of business. Student will be capable to understand business ethics to guide corporate sector and feel and perform its responsibilty towards society. Student will be capable to understand ethical aspect of business, banking system, banking procedure. Student will be capable to understand practivcal banking insurance system, insurance procedure, stock exchange system, To help them for employment in related field.
Credit Value	4
Total Marks	Max Marks:60+40 Minimum Passing Marks:35

Part B Content Of The Course

Total No. of Lectures-60 (In Hour Per Week)3	

Unit	Topic	Lectures
	T.	
1	Insurance: origin and development of insurance, meaning, principle and importance of insurance, classification of insurance.	
	Life Insurance: meaning objectives, principles and importance. types of life insurance policy, claim procedutre and settlement.	12
	General Insurance: meaning and objectives and importance, general insurance policies: vehicl, health, household goods, commercial premises and goods and another available policies.	
2	Stock Exchange: historicla background. meaning functions and importance, important termonology related to stock exchange. promary and secondary market, nse, bse, various index and interpretation of fluctuations in it.	12
	Mutual Funds: concept, salient features, importance and types, systamatic investment plan(SIP). performance of mutual funds in India.	

key words/Tags: Business, Ethics, General Insurance, Stock Exchange, Corporate Social Responsibility

Part C Learning Resources

Suggested Readings:

- 1. Dr. C.B. Gupta Values & Ethics In Business S.Chand & Sons New Delhi.
- 2. Dr.C.B. Gupta Business Organization & Management S.Chand & Sons New Delhi
- 3. Rathi And Agrawal Investment & Security Analysis S.Chnad & Sons New Delhi
- 4. Dr. S.C Saxena & Dr.V.P Agrawal Business Organization And Comminication Sahitya Bhawan Publication ,Agra
- 5. Dr. Op. Gupta & Dr. Sudhir Kumar Sharma Banking And Insurance Sahitya Bhawan Publication, Agra
 - 6. Dr. R.L. Nolakha Principles Of Insurance R.B.D. Publication Jaipur.

Suggestive Digital Platforms, Web Links

Sri SatyaSai University of Technology & Medical Sciences, Sehore (M.P.)

- $1.http://cbseacademic.nic.in/web_material/curriculummain 20/Sr.secondary/ \\ business studies. \\ pdf$
- 2. http://ncert.nic.in/textbook.php?kebs1=0-11

Part A Introduction

Programme: Certificate Class:B.Con	n 1 St Year lind sem Session 2022-23
Subject	Commerce
Course Code	C1-COMB2G

Course Title	Fundamental Accounting	
Course Type	Elective	
Pre-Requiste	Not Required Open For All (Except The Student Of Commerce)	
Course Objectives	To understand the meaning of accounting, accountancy, To understand the terms insed in accounting system To know how the accounting system for non profit organization	
Course Learning Outcomes	After the completion of the course, wstudent will be able to 1. To record the basic journal entries 2 Memorize how to calculate depreciation by applying various methods 3. Maintain the financial statement of a business entity 4. rectify errors in account.	
Credit Value	6	
Total Marks	Max Marks:60+40 Minimum Passing Marks:35	

Part B Content Of The Course

Total No. of Lectures-90 (In Hour Per Week)3		
Unit	Topic	Lectures
1	Preparation Of Final Accounts With Adjustment.	15
2	Depreciation Accounting: definition, reasins governing the existence of depreciation methods, objectives of providing of depreciation, factors determining the amount of depreciation,	

	methods of charging depreciation	
	practical questions of depreciation accounting- fixed and written down value mothods only.bank reconcialiation.	
3	Accounts of non- profit organisation and professionals.	10

key words/Tags: Financial Accounts, Balancesheet, P&L A/C, Single Entry System, Double Entry System.

Part C Learning Resources

1,

- 2. Dr.R.K.Sharma/ Dr. R.S.Popli, Financial Accounting, Kitab Mahal Pub., Agra.
- 3. Anil, Rajesh, Mariya Financial Accounting, Himalaya Publication Nagpur.
- 5. Financial accounting-Dr.M.S.shukla, Sahityabhawan publication, Agra
- 6.. M.C.Shukla, T.S.Grewal and S.C.Gupta. Advanced Accounts. Chand & Co. New Delhi.
- 7. S.N. Maheshwari, and S. K. Maheshwari. Financial Accounting. Vikas Publishing House, New Delhi.
- 8. Deepak Sehgal. Financial Accounting. Vikas Publishing H House, New Delhi.
- 9. Gupta R.L. and Radhaswamy M, Advanced Accounting & S chand & Sons, new Delhi.
- 10. Bhushan Kumar Goyal and HN Tiwari, Financial Accounting, International Book House
- 11. Dr.S.K Singh, Financial Accounting, SBPD Publication, Indore.

Suggestive digital platforms,

web links:

- 1.http://www.ddegjust.ac.in/studymaterial/mba/cp-104.pdf
- 2. http://www.ddegjust.ac.in/studymaterial/bba/bba-104.pdf
- 3.http://www.deeppanacademy.com/pdf/cma/foundation/fundamentals-of-accounting.pdf
- 4.http://www.academia.edu/38623012/financialaccounting/ifrsedition2ethjerry/wevegand

Part A Introduction

Programme: Certificate Class:B.Com	n 1 st Year lind sem Session 2022-23
Subject	Rural Banking
Course Code	A1-RBAN2G

Course Title	Banking Institutions in India	
Course Type	Elective	
Pre-Requiste	No pre-requisite	
Course Objectives	To understand the meaning of Rural Banking, To Understand The Terms Of Banking Institutions in India	
Course Learning Outcomes	After the completion of the course, wstudent will be get to 1. student will be gain a strong understanding about the banking structure in india. 2. student will be get aquainted with regulatory structure of banking sector in india 3. students will be understand about various banking institutions including rural banking institutions alon with their basic functions and their role in economic development. 4. student will be gain a deeper insight about emerging trends in banking in india.	
Credit Value	4	
Total Marks	Max Marks:60+40 Minimum Passing Marks:35	

Part B Content Of The Course

	Total No. of Lectures-60 (In Hour Per Week)2			
Unit	Topic	Lectures		
1	Rural Banking Instutions: rural banking institutions, features,	12		

	objectives, structure, functions of commercial banks, coiperative banks, primary agriculture societies, (PACS), regional rurla banks, microcredit, institutions, and nabard, role of banking institutions in rurla development, prospectus and chalenmges, of rurla banking institutions in india.	
2	Issues And Challenges To Banking Sector: financial inclusion in india, digital banking, technology in banking sector, issue of non-performing assets, (NPA), operational efficeincy & profitablity security issues, recent trends in banking system in india.	12
	Commercial Banks, prospectus and chalanges, rural banking institutions, co-operative banks,), regional rural banks, , microcredit, NABARD,	

key words/Tags Indian Banking System, Structure Of Indian Banking System, Challanges Of Indian Banking System..Central Bank, RBI, Banking Sector Reforms, Banking Regulation Act,1949, New Licensing Policy(RBi). **Banking Institutions,** Financial Inclusion, Digital Banking, NPA, Recent Trends In India.

Part C Learning Resources

- 1. Indian Institute Of Banking And Finance(Iibf), Rural Banking(Caiib2018) Macmillan Publishers India Private Limited ,2018
- 2. Chakrabarti, Manas, Rural Banking In India, New Century Publications, 2011
- 3. Gopinath ,M.N., Banking Principles And Operations, Snow White Publications 2017
- 4. Saha Satish Kumar, Indian Banking System, Sbpd Publishing House, 2020-21
- 5. Chawla, O.P. Evolution Of Banking System In India Since 1900, Sage Publications India Pvt. Ltd. July 2019.
- 6. Singh, Sultan Banking Sector Refirms, In India, Kanishka Publishing House, 2008
- 7. Indian Institute Of Banking, Basics Of Banking, Taxmann Publication, 2015
- 8. Indian Institute Of Banking: banking- an introduction, taxmann publication, 2015

Suggestive Digital Platforms, Web Links:

- 1.http://www.rbi.org.in/scripts/abouts/display.aspx
- 2. http://www.nabard.org
- 3. http://www.sayulor.org/books

Part A Introduction

Programme: Certificate Class:B.Com 1 St Year IInd sem Session 2022-23		
Subject	Rural Banking	
Course Code	A1-RBAN1G	
Course Title	Money& Banking	
Course Type	Elective	

Pre-Requiste	No pre-requisite	
Course Objectives	To understand the meaning of Rural Banking, To understand the terms of Money and Banking	
Course Learning Outcomes	After the completion of the course, wstudent will be able to 1. Understand about the origin of money and banking 2. Learn about concept of money, its functions, value, money market and monetary policy operations. 3. Understand about various banking institutions along with their basic functions and their credit creation role. 4. Understand about the central bank of our country and assess the objectives and functions of reserve bank of India (RBI) 5. Also analyze the banking sector reforms and gauge at the recent trents in banking system In India.	
Credit Value	4	
Total Marks	Max Marks:60+40 Minimum Passing Marks:35	

Part B Content Of The Course

Total No. of Lectures-60 (In Hour Per Week)2		
Unit	Topic	Lectures
1	Banking Institutions: concept definition, functions, and importnace of bank, types of bank, commercial banks, development banks, co-operative banks, Regional rural banks (RRB), micro finance institutions, private banks, indigenous banks, credit creation, role of banking in an economy.	

	2	Central Banks And Policy Reforms In Banking objective of centrla bank and its role in the economy, reserve bank of india(RBI)- organisation, structure, and its functions, credit creation and control by RBI, nationalization of banks and its objectives, banking sector reforms, recent trendss infn banking system in india.	12
--	---	--	----

key words/Tags: Menyy, Role Of Money, Paper Money, Demonetization, Money Aggregate, Value Of Money, Economic Fluctuationas, Inflation, Deflation, Stagflation, Money Market, Credit Control, Monetary Policy, Current Monetary Policy In India, Tyoes Of Bank, Credit Creation, Role Of Bank, Ina An Economy, Central Bank, RBI, Nationalization Of Bank, Banking Reforms, Bank Recent Trends.

Part C Learning Resources

- 1 Brandi Michael- Money, Banking, Financial Market & Institutions, Cengage, New Delhi 2019 2 Nd Edition..
- 2. Wright Robert E- Money And Banking, Saylor Foundation New York 2012
- 3. Samys Guru-Banking Theory, Vijay Nicole Publication, Chennai 2015
- 4. Trivedi I.V. Dashora Rakesh, Nagpur, Ashok Jain Sanjay- Money And Financial System, Ramesh Books Depo, Jauipur, New Delhi 2006
- 5. Mishra J.P. Money And Banking, Sahitya Bhawan Publication, Agra.
- 6. Miney And Banking, M.P. Granth Academy, Bhopla.

Suggestive digital platforms, web links:

- 1.www.moneybanking.com
- 2. http://www.nabard.org
- 3. http://www.sayulor.org/books
- 4.http://www.epw.in/
- 5.http://onlinecourses.nptel.ac.in/
- 6.http://www.eds.org/school/state-bank-of india

Part A Introduction

Programme: Certificate Class:B.Com	n 1 St Year IInd sem Session 2022-23
Subject	Business Organization And Management
Course Code	C1-COHB1G
Course Title	Business Organization And Management

Course Type	Elective		
Pre-Requiste	No pre-requisite		
Course Objectives			
Course Learning Outcomes	After the completion of the course, wstudent will be able to CO1: Develop a basic understanding about business organization and its forms. CO2: develop rudimentary concept of plant location, layout and size of business units and their respective importance in the practical world. CO3: acquire an understanding of business combinations rationalization and nationalization. CO4: gain insight into the management process and its functions of planning, organization, staffing, directing, and control.		
Credit Value	4		
Total Marks	Max Marks:60+40 Minimum Passing Marks:35		

Part B Content Of The Course

	Total No. of Lectures- (In Hour Per Week)L/T/P:4/0/0						
Unit	Unit Topic						
1	Management:concept, of management, , nature and importance of management, functions of management,, taylors scientific management, henry fayol's principles of management, Planning: concept, importance, process, types of plans, decision making, process, individual vs group decision making Organising: concept & principles of organising: formal/ informal organization, virtual organization, organization structure ,span of management.	18					

	Delegation Of Authority centralization and decentralization, line and staff authority, Staffing: nature and scope of staffing, man power planning-			
	concept and inportance ,recruitment: concept and source, recruitment, selection concept, importnats tests and types interview.performance appraisal: objectives and mode methods.			
	Directing: concept and importance of derecting			
	Communication: concept and importance, channels of communication, formal/ informal communication, barriers of communication			
2	Motivation: concept and intrinsic extrinsic motivation, theories of motivation maslow's and need theory, hierarchy, herzberg two factors theory, Mcgreger theory, X and Y theory.	18		
	Leadership: concept , style, leadership, theories,-Trait theory, behavioural theory, contingency / situational theory,			
	Conflict: meaning& types of conflict.			
	Control: concept, nature, importance, process and methods, Controlling, techniques, of control financial and quality			

Key Words: Business Organization, Industry And Commerce , Small Amd Medium Enterprises, Plant Location, Plant Layout, Size Of Business Unit, **Business Combination, Rationalization, & Nationalization,** Management:Concept, Scientific Management, Henry Fayol's Principles Of Management, Planning, Organising, Delegation Of Authority ,Staffing, Performance Appraisal, Communication, Formal/Informal Communication

Directing, Motivation, Leadership, Conflict, Control.

Part C Learning Resources

- 1 Koontz Horald O, Donneli And Wehrich, Heinz" Essentials Of Management New Delho Tata Macroe Hills, Latest Edition
- 2. Drucker Peter, Business Organization And Management,, Tasks Responsibilities And Practices Allied Puiblishers New Delhi 2020
- 3. C.B. Gupta Business Organization And Management S.Chand Publication.
- 4. Shukla M.C Business Organization And Management, S.Chand New Delhi.
- 5. Chhabra T.N. Business Organization And Management , Sun India Publication , New Delhi
- 6. Shah & Tatted, Business Organization And Management, Sahitya Bhawan Publication,

Suggestive digital platforms, web links:

1http:/ebooks read.com/authors-eng/h-e-morgan/ business- organizatio-hci-shtnl

- 2. http://in pinterest.com/pin/83513
- 3. http://nptel.ac.in/noc/course/noc21/sem2

Part A Introduction

	Part A Introduction			
Program: Certificate	Class B.A. (Plain) II Ye Semester	ear:I	Session:2 022-23	
Course Code	A1-ECON-2G			
	A1-ECON-2G			
Course Type (Core Course/ Elective Course	lective Elective Course			
Course Tittle	Indian Economy- An Introduction (Economics)			
Credit Value	04			
Total marks			Min. Passing in Marks:35	
Course Objectives:	CO-1 . The main objective of this paper is to			
	introduce the student to basic understanding o	f the		

	Indian economy and measurement of various macroeconomic variables. CO-2. Students will be able to evaluate the consequences of economic activities on institution, individual and social welfare. CO-3. To make awareness among the students about various economic issues in India. CO-4Organizing social and economic activities such as business club, exhibitions, effective salesmanship, and business fair for development of commercial attitude among the students		
Course learning out comes:- CLO	After completing this, students will be able to under the basic concepts of the Indian economy .they will be familiar with the issues related to Agriculture, Industry, Foreign Trade, economic Planning and various economic problems of India .They Will also be able to able to understand the various issues of Madhya Pradesh Economy		

Part B- Course Contents:					
Total No of Le	ctures-Tutorials – Practical (in hours per week):				
UNIT	Topics	No of Lectures			
I	1. Planning in India:- Objectives, Strategy,				

Planning and	achievements and failures	
Development	 2. NITI Aayog 3. Problems of Indian Economy-Poverty,	
Economy of Madhya Pradesh	 Salient features of Madhya Pradesh Economy Nature Resources of Madhya Pradesh:- land ,water forest and mineral Trends and Regional Disparities in Agriculture Sector of Madhya Pradesh Industrial Development in Madhya Pradesh Infrastructure Developments in Madhya Pradesh-Power, Transport And Communication Employment oriented schemes in Madhya Pradesh 	12 Lectures

Key words: Sectorial Composition, Human Resources of India, Indian Agriculture, Industrialization, Infrastructure, Five year Plan in India, Regional Disparities, Industrial Development

Part c- Learning resources Reference Books ,Other resources

1. Suggested readings:

- **1.**Pannagariya, Arvind (2020) –India Unlimited :Reclaiming the lost Glory , harper collins publishers India
- **2.** Mishra and Puri (2020) Indian Economy Himalaya publishing House New Delhi.
- **3.** Rudra Dutt and Sundaram Indian Economy, S. Chand and Company House New Delhi.

- **4.** Hariharan, N.P (2008) –Lights and Shades of Indian Economy Vishal publishing, Jalandhar
- 5. Uma Kapila (20thEdition) (2009) Indian Economy since Independence, Academic Foundation, New Delhi.
- **6.** Reserve Bank of India- Annual Reports

Suggested Equivalent online course:

https://online course.nptel.ac.in/noc21hs/preview

Suggested Digital platform:

- .1.https://www.indiabudget.gov.in/economics survey/ebookes2021/index.html
- 2.https://des.mp.gov.in/Ports/o/Economic surely/ebookes2021%2020-21.pdf
- 3.www.indidbudget.gov.in/economic survey/
- 4.https://www.rbi.org.in/scripts/AnnulReportMainDisplay.aspx.

PART A INTRODUCTION						
Program: Certificate		Class B.A. (Plain) II Semester	(Plain) II			
	Subject: History					
1	Course Code	A1-HIST-2G				
2	Course Title	Constitutional History of India				
3	Course Type (Core Course/Elective/Generic Elective/Vocational/)	Elective				

4	Pre-requisite (if any)	This course can be opted by any student w	ho has p	assed 12th class	
5	Students will analyze the salient features of the constitutional development during Company's Rule in India from 1773 - 1857 and to assess their impact on the freedom struggle of India. They will know about the influence of the British Crown on India. They will be able to write a detailed essay on the various acts passed during the Crown's period in India from 1858- 1947 and their impact on the socio political life of India. Students will be able to critically examine the major reforms by the British Government in India and highlight their salient features. They will gain the knowledge of Indian Constitution.				
6	Credit Value	04			
7	Total Marks	Max. Marks: 60+40 Min. Passi	ng Marks	s: 35	
		PART B- CONTENT OF THE COURSE	2		
	Total No. of Le	ectures-Tutorials-Practical.(in hours per week)) : L-T-P	: 2 H/W	\exists
Un	it	Topics		No. of Lectures	
I	Morley-Minto Reforms and Mont-Ford Reforms Government of India Act 1909 - Causes for passing of the Act, Government's outlook towards the reforms, main provisions of the Act, defects of the Act, significance of the Act Government of India Act 1919 - Causes for passing of the Act, significance of the Montague declaration, Montague-Chelmsford Report, passing of the Act, preamble of the Act, main features of the Act.				
II	Provincial Autonomy, Indian Independence and Indian Constitution The Government of India Act of 1935 - Features of the Act, 'Home Government, Advisors of the Indian Secretary, High Commissioner, proposed Federal Plan—organization, criticism, conclusion. Meaning of Provincial autonomy. Government of India Act, 1947-The Mountbatten Plan, Factors responsible for the Independence of India, provisions and significance of the Act. Main Features of Indian Constitution.				
Ke	/words/Tags: Act, Constitu	tion, Corn an Crown, Reforma and Autonom	ıy		
		Part C-Learning Resources			
	Те	xt Books, Reference Books, Other resources			
Sug	Suggested Readings 1- Sumit Sarkar: Modem India 1885 n 1947. Macmillian, 1983 2- R. Jeffery, J Masseloss: From Rebellion to the Republic 3- Paul Brass: The Politics of India since Independence 4- Agarwal, R.C.: Indian National Movement and Constitutional Development, New Delhi 5- Desai A.R.: India's Path of Development 6- Tara Chand: History of Freedom Movement in India Vott1,2.3.4				

- 7- Bipan Chandra and Others: Freedom Struggle.
- 8- Majumdar, R.C.: History & Culture of Indian People, Vol. 8, 9, 10 &11, Bombay, 1954
- 9- Grover and Yashpal: Indian National Movement and Constitutional Development, Delhi
- 10-vxøky vkj.-lh?/Hkjrh, lfo/kkudk.fodkljk"vh, vkthkgu]ubZfnYyh]1996
- 11-rkikpa% Hkirh, Lorark v kuhkoru dk b fraki] [kb/11]2]3,4 ubZfnYy h 1,996
- 12- ika/sJhus-%/k/hajud Hkirdk bfrgkt] Hkx 1, oa2 by kgckn 1988
- 13- X kg, oa; kiky % kkirh, Lorark i x ke r Fkk i asktud födki jub Zfn Yy h 1995
- 14- fago ohid soj i zki % Hkirh, jkivh, vkuhkoru, oal asskrud fod ki jubžrny h 1995
- 15- ukxiky]vks%HkjrdkjkVP, vkakyu, oal asktud fodkt]bluhk\$ 1995
- 16- OffWill ch, y- Wilkirth i KVth v kalkyu, oal assktud fod ki Hkisky 1990
- 17- t 8] i (pk; kt %Hki; rh) j k'Vh) v kakşu, oal a/Sktud fod kt] v kx j k 1987

Suggestive Digital Platform Web links:

- 1- https://byjus.com/free-ias-prep/constitutional-development-of-india/
- 2- http://www.igntu.ac.in/eContent/BA-PoliticalScience-02Sem-DrudaySingh
- 3- Indian%20Government%20and%20Politics.pdf
- 4- https://www.jstor.org/stable/1226621?seq= 1
- 5- https://enswikipedia.org/wiki/Constitution_of India
- 6- https://constitutionnetorg/country/constitutional-history-india
- 7- https://blog.ipleadersin/history-and-develument-of-the-constitution-of-india/

Suggested equivalent online courses:

Part A- Introduction				
Program : Certificate	Class B.A. (Plain) II Semester	Year:I	Session:2022-23	
1	Subject : Gener	ic English		
Course Code	A1-ELIT-1G	A1-ELIT-1G		
. Course Title	Communica	Communication English (Paper, Theory + Tutorial)		
Course Type (Core/Elective/ Generic Elective/Vocational/)		Electi	ive	
Pre-requisite (if any)			tive by the students of sed in any discipline /Open	

	ourse Learning atcomes (CLO)	1.The study of the course will enable the knowledge of Phonology and mo structure Vocabulary and discourse.				
		2. The students will be able to converse in real life situations effective language skills the cost will also help them Acquire literacy sense.				
		Use atomic and lexical language effe	ctively across the	globe		
	Credit Value 4					
	Total Marks		mum passingMar	ks:35		
Total		art B- Content of the Course rials-Practical (in hours per week):1 P:45+15+00=60	.5+0.5+00=02 L-	T-		
Unit		Topics		No. of		
				Lectu res +No of Tutori		
				als		
I	Practicing writing sp	eaking skills		15+04		
	official orders and app presentation, note mak 3.2 Communicative ap	proach lexical approach task based lea	alks and			
		ry writing daily routine in English				
	3.4 Situational convers	sation between two friends on different	t topics.			
	1	mixing. Situational conversation. Strubs, phrases and idioms.	ctural English.			
II	Application of comm	unicate in English		10:04		
	4.1 Translation (from)	Hindi to English and vice versa)		10+04		
	4.2 Group and Peer dis	scussion ,role play				
	4.3 Contrastive analyst lexical levels with exact	is between 1.1 and 1.2 at structural. Phopple	onological and			
	Keywords/ Tags: Literary translation. tra of Role –play conversa	anslation theories L1 interference. Bilinational English	ngualism types			
		Part C-Learning Resources				
	Text Bo	oks, Reference Books, Other resources	S			
Suggested	Readings:					
1. A comr	nunicative grammar of I	English" Leech Geoffrey, and Jan Svar	tvik Routledge, 20	003		

Third edition.

- 2. CLT for ESL Teachers and Learners" Gautam .GS. Classical Publishing Company, New Delhi India 2012 First ed.
- 3. Communicative English for Globalization" Gautam GS .Classical Publishing Company, New Delhi India 2030 First edition.
- 4. Communicative English language skills Sumi Sumague Juheta Arjuna Society Publishing 2020.
- 5. Communicative Methodology in Language Teaching Brumfit C Cambridge University Press 1984.
- 6. Language Teaching a Scientific Approach" Lado Robert, McGraw -Hill New York 1964.
- 7. Motivation -The Teacher's Responsibility" Allwright. Dick ELTS Journal 31st 4 1977...
- 8. Problems and Principles in Language Teaching Brumfit C Pergamon Institute of English 1980.
- 9. The Learner -Centred Curriculum" Nunan D Cambridge University Press 1988.

Suggested digital platform weblinks:

- 1. www. skillsyouneed.com/ips/what- is -communication html
- 2 .www. slideshare. net/mwakidimi/communication- notes -6910 3614

Suggested equivalent online courses:

• https://www.coursera.org.specializations/improve-english Improve your English Communication Skills Specialization by Gerry Landers, Amalia B. Stephens, Karen Peterson, Georgia Tech Language Institute.

Any remarks/ suggestions: Tutorial activities (based on syllabus) in the class by students and teacher are desirable. These will strengthen the student's knowledge of communicative English.

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B.Sc Ist Year (II sem) Wef-2022-23

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- 3-dygJ\$B] NAWfot; & ^foKkiu %fl}ka vkjSizkas** & ek;k izdkku eafnj] t;ijq]la &2018
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- 1. www.ndl.iitkgp.ac.in. (National Digital Library of India)
- 2. http://www.csttpublication.mhrd.gov.in/
- 3. http://ugemoocs.inflibnet.ac.in/
- 4. http://ignou.ac.in/eGyankosh
- 5. http://ugemoocs.inflibnet.ac.in/
- 6. http://www.swayamprabha.gov.in/
- 7. www.mghv.in



rogra	am : Certificate	Class I (Plain Semes) II	Year:I	Session:2022-23
			Subject	: Psychology	
1	Course Code	A1	-BECO-1G		
2	Course Title			Organizational	Behavior
3	Course Title (Core Course/Elective /Gen Elective /Vocational/		ective		
4	Pre- requisite (if any)				
5	Course Learning outco	of	the princip	ill enable the students les of human behavior he Indian business cor	•
6	Credit Value				Theory -6
7	Total Marks	Ma	x. Marks:	60+40	Min. Passing Marks: 35
Unit	Topics			-Practical (in hours per ectures=90	No. of Lectures
	ords /Tags: Learning; A	Attitude: Joh s	atisfaction		
	on making emotions	illiude, 300 s	ansiachon	, Motivation, persona	my, values, perception,
I	GROUP BEHAVIO	UR:			11
	1.Group and Work development; Group and te players from individu work(TBW) 2. Leadership: Conc. Theories(Ohio and M theories(Fiedler, H Authentic leadership; leadership; leadership; Inspiration Charismatic); Compa other countries. Exerc conducted to develop	think and shift cams; Types chals; Team but ept; Trait The lichigan studi Hersey and Bl Mentoring, St nal Approach rison of India cises, games a	et; Indian p of teams; Callding and cories; Beh es); Continanchard, Pa Self leaders es(transfor in Leadershand role pla	erspective on group reating team team based avioral agency ath-goal); ship, online rmational, nip styles with ays may be	
II	ORGANISATIONA Concept of culture; in sustaining culture; En ethical cultures. Conc	npact(functionployees and	ns and liab culture; Cı	oility);creating and reating positive and	12

ORGANISATIONAL CHANGE, CONFLICT AND POWER: Forces of change; planned changes; Resistances; Approaches(Lewin's model, Organizational Development); Learning organization; Organisational change in Indian businesses. Concept of conflict; Traditional view and interactions view of conflict; Conflict process; Functional/Dysfunctional. Introduction to power and politics.

Keywords / Tags: Change; Resistance; Conflict; Power; Politics

Part C-Learning Resources Text Book, Reference books, other resources

Suggested Reading:

- 1. Luthans Fred, "Organizational Behaviour", McGraw Hills
- 2. Hellriegel, Slocum and Woodman, OB, South-western, Thomson leaning, 9th ed. 2001
- 3. Behavior in organization, Jerald Greenberg, 8th ed, pearson edu
- 4. Arnold, John, Robertson, Ivan t. and cooper, cary, I, "Work psychology: understanding human behavior in the workspace" Macmillan India Ltd. Delhi.
- 5. Dwivedi, R.S;"Human relations and organizational behavior: A global perspective", Macmillan India Ltd. Delhi.

Suggestive equivalent online courses:

- 1. https://www.coursera.org/courses?query=economics
- 2. https://www.mooc-list.com/tags/economics
- 3. https://www.coursera.org/learn
- 4. https://ocw.mit.edu/courses
- 5. https://nptel.ac.in/courses/macroeconomics
- 6. . https://nptel.ac.in/courses/economics
- 7. . https://nptel.ac.in/courses/managerial economics

				troduction		
Certif	Certificate/Diploma/ (Pl		iss B.A. lain) II mester	Year:I	Session:2022-23	
			Subj	 ect : Political scienc	e	
1	Course Code		A1-POS	6C-1G		
2	Course Title			Indian politi	cal system	
3	Course Title (Core Course/Elective /G Elective /Vocational/			Elective		
4	Pre- requisite (if ar	ny)		To study this course, a student must have passed 12 th Student of any subject can study this course.		
5	Course Learning outcomes (CLO)		2. The the Mi sys pol 3. The Inc. 4. The	functions and role of nister, parliament and stem in the institution litical system. ey will be a able to use dian political system.	and its determinates. swer questions related to f the president, prime d Supreme Court, party	
6	Credit Value				Theory-6	
7	Total Marks		Max. Marl		Min. Passing Marks: 35	
	no of Lectures –Tuto l Lectures - 60 hours	rials –P		nt of the Course hours per week): 4	hours per week	
Unit	Topics				No. of Lectures	
I	Problems of Ind 1. 2. 3.	ian pol Linguis Regiona Casteisa Commu	m. alism m	m:	22	

II	Challenges of	of Indian political system :	22
	1.	Poverty	
	2.	Social justice	
	3.	Gender justice	
	4.	Defection politics	
	5.	Election Reforms	
	Varmunda/Tana		

Keywords/ Tags

Part C-Learning Resources

Text Books, Reference Book, Other resources

Suggested Readings:

- 1- Austin, G"The Indian Constitution: Cornerstone of a Nation", Oxford University press, Delhi, 1966.
- 2- Basu, D.D "Introduction to the Constitution of Indian", 24 th edition, Lexix Nexi
- 3- Publication, Gurgaon, Harvana, 2020.
- 4- Jayal, Nirja Gopal and pratap Bhanu Mehta, Companion to politics in India student edition", Oxford University press New delhi.2010.
- 4- Kashayap, Subhash, Our constitution: an Introduction to Indias Constitution and Constitutional law" National Book Trust, India, 2011.
 - 5- Kashayap, subhash," Constitution of India", National Book Trust, India, 2004.
 - 6- Kaviraj," politics in india", Oxford University press Delhi, 1970.
 - 7. Kothary, R, Politics in India", orientLongman, New Delhi, 1970.
 - 8. M. Laxmikant, Indian polity ", McGraw Hill Education
 - 9- Narang, A.S "Indian Govertment and politics", Geetanjali publishing House, New Delhi,1996 (Latest edition)
 - 10-Sharma, B.K." Introduction to the Constitution of india", PHI Learning Delhi, 2019.
 - 11- Pylee, M.P., Saxena, R "Federalizing India in the age of Globalizations", primus Book, New Delhi, 2013.
 - 12- Roy, H& Singh, M.P. Indian POLITICAL System", Pearson, Delhi 2018.

Suggestive digital platforms web links

- 1. https://WWW.Jstor.org/stable/2125628?seq= 1
- 2. https://politicalscience.stanford.edu/research/ political- theory
- 3. https://link. Springer. Com/referenceworkentry/10.1007%2f978-1-4020-8265-8-1431
- 4. https://www. YouTube. Watch? v= fd TNIx52weg

Suggestive equivalent online courses:

NPTL- Introduction to political Theory by Prof. Mithlesh kumar jha. IIT gwahati

Any remarks suggestions:

			Part A Int	croduction		
(P		(Pl	ss B.A. lain) II mester	Year:I	Session:2022-23	
	Subject :Sociology					
1	Course Code		A1-SOCI-1G			
2	Course Title			Introduction to	Sociology	
3	Course Title (Core C /Elective /Generic Ele /Vocational/		Elective			
4	Pre- requisite (if any))	This is an elective paper open for all B.A. 1st Year Students, except those who have opted Sociology as core paper.			
5	Course Learning out (CLO)	comes				
6	Credit Value			Theory-4		
7	Total Marks		Max. Marks	; 60+40	Min. Passing Marks: 35	
				t of the Course		
	o of Lectures –Tutoria	ls –Prac	ctical (in hou	rs per week): 6 hours	•	
Unit	Topics				No. of Lectures	

Ι	Social Cultural Processes :	14
_	1.Culture	
	1.1 Meaning	
	1.2 Characteristics	
	1.3 Types	
	1.4 Culture and Civilization 2. Socialization	
	2. Socialization 2.1 Meaning	
	2.1 Wearing 2.2 Characteristics	
	2.3Stages	
	2.4 Agencies	
	3.Social processes	
	3.1 Cooperation	
	3.2 Accommodation	
	3.3 Competition 3.4 Conflict	
	3.4 Connet	
Keywo	rds / Tags: Culture, Social Process, Civilization, Socialization, Coo	↑
II	Social Control and Change:	12
	1. Social Control	
	1.1 Concept 1.4 Means of Social Control	
	2. Social Stratification	
	2.1 Concept	
	2.2 Bases	
	3. Social Change	
	3.1 Meaning	
	3.2 Characteristics 3.3 Factors of social Change	
	3.4 Patterns of social change	
Keywoi	rds /Tags: Social Control, Social Stratification, Social Change, Fa	actors of Social change, Patters
of Socia	al Change.	
Sugges	Part C-Learning Resources	
00	t ed Readings: ver, Robert M& Charles Hunt Page (1949) Society: An Introductory	Analysis, New York.
2- Betei	lle Andre (1965) Caste Class & Power, California University, Berko	ley.
3-Ghury	GS (1961) Caste Class & Occupation, Popular Book Depot., Bomb	ay.
	rn &Nimkof (1947) Hand Book of Sociology, K.Paul, Trench, Preb	ner and Comp. LTD. London.
	ens,A.(2006).Sociology (5 th ed.).Oxford University Press.London	
	n and Hunt .(1964)Sociology – TheDispline and its Dimensions:	New Central Book Agency,
Calcutta	a. on Harry M.(1988)Sociology- A Systematic Introduction. Allied Pul	alighar Dut I td. Navy Dallai
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	gatsih 1220191/alekt/kkL=vo/kkj.kk,a,aofl) kut]jkoy ifGyo	Iskujt; i ja
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13& i ktVy v' l	ksl Mh, oaHhlk§; k, l , l 1201	5/1 ekt 'kk_= i fjp;]e/, i zisk fgluhhxb#	kvdkneh)		
Hkisky					
Suggestive digit	tal platforms web links	Introduction			
Program: Certi- https://nios.ac.in	tal platforms web links ficate/Diploma/Degree Class /online-course-material/sr-seconda valent online courses:	: II Semster Year:I Sess	sion:2022-23		
Suggestive equi	valent online courses:	bject. NCC			
	r central 189 stste Sperated Universiti	es/MOOC platforms as "SWAYAM" in ind	ia and		
Abroad2	Course Title	NCC Awareness			
Any remarks su	uggestions: Type(Core	Elective			
	course/Elective/Generic				
	Elective/Vocational/)				
4	Pre-requisite (if any)	To study this course, a student must ha	1		
	12 th with any subject and must be medically fit. This				
	course can be opted as an elective and it is open for				
		all			
5	Course Learning	The students will develop a sense of re	esponsibility		
	outcomes(CLO)	and there by display sense of patriotism	n, secular		
		values, discipline, improve bearing and	d develop the		
		quality of immediate and implicit obed	lience of good		
		things. This paper will enable the stude	ents to build		
		and develop leadership through comm	unication. The		
		significant relationship between person			
		and leadership will be achieved and ex	•		
6	Credit value	04			
7	TotalMarks	Max.Marks: 60+40 Min.Passing	Marks:35		
	Part B- Co	ntent of the Course			
	Total numbers of Lectures(i	n hours per week) :2hours per week			
	Total lectures:60	OHours L-T-P (02-00-00)			
Unit	Topics		No of		
			Lectures		
I	Personality development:		15		

	Introduction to personality development	
	 Factors influencing and shaping the personality 	
	Team work and team building, social skills, Etiquettes and	
	manners, Decision making and problem solving, Change	
	your mind set	
II	Leadership:	15
	 Introduction and typeof Leadership 	
	Leadership traits	
	How to develop leadership.	
	Leadership case study(Field Marshal General Sam	
	H.F.J.Manekshaw and General K.M Cariappa)	
	First Aid:	
	Scope and objectives	
	• First aid in common emergencies, Dressing of Wounds.	

	Toyt B	Part C- Learning Resou					
Text Books, Reference Books, Other resources Suggested Readings:							
S No	Name of Writers	Name of Book	Name of Publishers	Year of publication			
1	Sabharwal,D.P	Personality Development	Finger print publishing,India	2015			
2	Sabharwal,D.P	Personality Development(Hindi)	publishing,India	2021			
3	Gurav, Aarti	50 Mantras of Personality Development	Buzzing stock Publishing	2013			
4	Vasudeva, Sangeetha	Personality Development	Clever Fox publishing	2021			
5	Kapoor ,Shikha	Personality Development and Soft skills	Dream Tech Press	2020			
6	Sinha, Surya	Complete Personality Development course (Hindi)		2012			
7	Agrawal,(Dr.) Vijay	Student and Personality Development (Hindi)	Benteen Books	2012			
8	Shekhar,(Dr0. Priyanshu	Personality Development guide (Hindi)	PrabhatPrakashan	2016			
9	Anand, Arunsagar	Personality Development Course (Hindi)	V & S Publication	2013			
10	Sharma, Robin	Leadership Wisdom	Jaico publishing House	2003			
11	Maxwell, John C	5-Levels of leadership	Cross liance	2014			

B.Sc Ist Year (II sem)

12	Dravid,Rahul and Iyer,Prakash	The Secret of Leadership	Penguin ,India	2020
13	Dr. Bomi	The Leadership Handbook		2020
14	Bindra, Vivek	Everything about Leadership	Diamond Pocket Books	2018
15	Carnegie, Dala	The Leader in you	Amazing reeds	2018
16	Subramanian,Ramesh and Ramiah,Ramkrishan	Leadership by Values	Notion Press	2020
17	Manivannan, C. and Man ivannan, T. Latha	Text Book of FirstAid and Emergency Nursing	EMMESS Medical Publishers	2020
18	Popli,Harvinder and Sharma, Nirmal	Emergency First aid Safety Oriented	CBS Publishers	
19	Jain,N>C>and Saakshi	First Aid and Emergency Case	AITBS Publishers	2019
20	Pippa,Dr.Keech	Practical Guide to First Aid	Anees Publishing House	
21	Gupta,RK	NCC National Cadet Corps(Hindi & English)	Ramesh Publication	2021
22		Hand Book of NCC	Kanti Publication, Itawa	2017
23		Hand Book of NCC an unique book for NCC Cadets	Naveen Publication	2019
24	Ranjan, Shashi and kumar,Aashish	Hand Book of NCC	Goodwin Publication	2021
25	Chauhan,Lt(Dr) Rajeev kumar	NCC National Cadet Corps	Aakriti publication	2021
26		Cadets Hand book	NCC Directorate M.p.& C.G	
27	Goyal, Hariom	Personality Development	KalpazPublication,Indi a	
28	Mitra,Barun K	Personality Development and Soft Skills	Oxford University Press India	
29	Mishra, Rajeev k	Personality Development- Transform Yourself	Rupa and Company India	

2. https://www.firstaidforfree.com

Suggested equivalent online courses:

		Part A l	<u>Introdu</u>	ction			
Program: Cla			ass: II Year:I Session:2022-23		Session:2022-23		
Certifica	te/Diploma/Degree	Sems	ster				
		Subj	ect: NC	C			
1	Course Code			NBCO	SE(Y-10	6P	
2	Course Title			NCC	Training	3	
3	Course Type(Core			E	lective		
	course/Elective/Gen	eric					
	Elective/Vocational	/)					
4	Pre-requisite (if any)		o study	this course,	a student:	must have	
		p	assed 12	2 th with any s	ubject an	d must be	
		n	medically fit. This course can be opted as an				
				and it is open			
5	Course Learning	-				te a sense of	
	outcomes(CLO)		discipline, create self confidence and to create a				
			human resource of organized,trained youth and			•	
			to develop the quality of immediate and implicit				
						d the youth to	
				medical eme	ergency b	y giving aid.	
6	Credit value		02				
7	TotalMarks		Max.Marks: 25+75 Min.PassingMarks:33				
				he Course			
Total 1	numbers of Lectures-	Tutorials-	-Practic	al (in hours	per week	:) :2hours per	
			week				
		L-T-l	P:00-00	-01			
S.No	Topics				No of	No of	
					Lectures	Tutorial	
UNIT-I Group Discussion of		n current	topics a	and issues(N	ational &	: 15	
	internationals)						
	Public Speak	ing/Extem _]	pour				
	First Aid: Ba	andages ai	nd CPR	-			
TOTAL 30							
	Keyword			oupe,Salute,		, CPR	
		Part C	C-Learn	ing Resourc	es		
	Text?	Books,Ref	ference	Book, Other	Resource	ees	

		P	art A : Introduc	tion		
Program:- Certificate/Diploma/Degree/ Course			Class: II Semster	Year:I	Session:2022-23	
	Su	bject: Na	ational Service S	scheme (NSS)		
1	Course Code	NSS:10)1			
2	Course Title	Concep	t of National Ser	vice Scheme		
3	Course Type	Elective	e			
4	Pre-requisite (if any)	To study this course, a student must have passed 12 th with any subject. This course can be opted as an elective and it is open for all				
5	Course Learning outcomes(CLO)	1. 2. 3. 4. 5. 6. Learni Theend 1. U p o N 2. T C n 3. S C d				
6	department. 6 Credit Value Theory -04					
7	Total Marks	-	/ -04 [arks: 60+40	Min Page	sing Marks:35	
	1 Otal Mai N3	IVIAA.IVI	Lai No. UU ' TU	1VIIII.1 as	mig marks.ss	

Part B- Content of the Course
Total numbers of Lectures(in hours per week) :2hours per week
Total lectures: 60 Hours

Unit	Topics	No of Lectures
Ι	Day camp, Special camp and Personality development:	15 HOurs
	 Various Demension of day camp. 	
	Special camp at college/Unit level.	
	Other Camps: District level camp, University level camp, State	
	level Leadership Training camp.	
	NIC camp, Sahshik activity camp, pre –RDC,RDCcamp.	
	Key Words:- Youth Camping.	
II	Youth and volunteerism:	15 Hours
	 Definition, Issues, challenges and opportunities for Youth. 	
	Youth as an agent of social change.	
	Indian Tradition of volunteerism.	
	 Needs and importance of volunteerism. 	
	 Motivation and constraints of volunteerism. 	
	Key Words:- Youth volunteerism.	

Part C- Learning Resources
Text Books, Reference Books, Other resources

Suggested Reading Materials:

- 1. National Service Scheme Manual, Government of india.
- 2. Trainining Programme on national Programme scheme, TISS.
- 3. Orientation Courses for NSS programme officers, TISS.
- 4. Case material as Training Aid for field workers, Gurmeet Hans.
- 5. Social service opportunities in Hospitals, Kapil K. Krishan, TISS.
- 6. Social Problems in india, Ram Ahuja.

Suggested equivalent online Courses:

http://www.thebetterindia.com/140/national-service-scheme-nss

htt://en.wikipedia.org/viki/national-service-scheme

htt://nss.nic.in

	Part A: Introduction					
	Program:-		Class: II	Year	::I	Session:2022-23
Cert	tificate/Diploma/Degree	Semster				
	Su	bject: Na	ational Service S	cheme (NSS	5)	
1	Course Code)2				
2	Course Title	Project Tool of NSS				
3	Course Type	Practical/ Project Work				
4	Pre-requisite (if any)	To study this course, a student must have passed 12 th with any				
		subject.	This course can be	pe opted as a	ın electiv	e and it is open for
		all				
5	Course Learning	Course	Objective:-			
	outcomes(CLO)		student Will Hav			
	out of the list based on the local conditions and opportunities,				* *	
	and will Prepare a report based on field situation.					
	Learning Outcome:- To impart hands- on skills in Preparation.				-	
		The end	-			of the
		paper,a student should be able to:				
		Project work of NSS will aim to enhance the employment				
		potentiol of the NSS volunteers or, alternately to help				
		them to job opportunities in government approved				
	NGOs,ministry of youth Affairs and Sports.				orts.	
6	Credit Value	Practic	al -02			
7	Total Marks	Max.M	arks: 25+75		Min.Pa	ssing Marks:33

Part B- Content of the Practical Course Total numbers of Lectures (in hours per week) :2hours per week Credits -02 (Total Lectures :30 Hours)

Scheme of Practical Examination:-Max.Marks (25+75=100)

• Internal Assessment:-

Marks-25

1. Class Interaction.

(05)

• Quiz.

(05)

• Seminar. (07)

Assigments.

(08) External Assessment:-

Max.

Max.

Marks-75

- Report of Regular Activities in the Society. (15)
- Report of NSS Volunteerism. (10)
- Report of Communication Skills.

(10)

• Report of Camping Activity.

(15)

Report of Excursion/Training/Survey/Data Collection .
 (10)

• Viva-Voce.

(05)

Practical Record

(10)

List of Practical/ Project Activity:-	05
Communication Skill:- Personality development, communications Skill	
development, Problem-Solving.	
Key Words - Communication skill project activity.	
Youth and Community: - Adoption of slum, Survey of slum, Service of Slum,	07
Identification of problems of slum areas.	Hours
Key Words- Youth community project activity.	
Youth and Health:- AIDS, Drugs and substance abuse, Home nursing, First Aid,	05
Yoga as a tool for healthy lifestyle etc.	Hours
Key words- Regular activity, project activity.	
Environmental Issues:- Natural disaster management, natural resource	06
management,Rain water harvesting,Afforestation, Waste management etc.	Hours
Key words- Natural resources/ disaster management project activity.	
Awareness Programe: - Peer mentoring in preventing crimes, cyber crime and	07
prevention, juvenile justice, save girls child protection, Blood donation	Hours
awareness,swacch Bharat abhiyan, Corona virus awareness etc.	
Key Words - Volunteerism awreness project activity.	
Part C: learning Resources	
Text Books, Reference Books, Other resources	

Suggested Reading Materials:

- National Service Scheme Manual, Government of india.
- Trainining Programme on national Programme scheme, TISS.
- Orientation Courses for NSS programme officers, TISS.
- Case material as Training Aid for field workers, Gurmeet Hans.
- Social service opportunities in Hospitals, Kapil K. Krishan, TISS.
- Social Problems in india, Ram Ahuja.

Suggested equivalent online Courses:

http://www.thebetterindia.com/140/national-service-scheme-nss

htt://en.wikipedia.org/viki/national-service-scheme

htt://nss.nic.in