

2023-24.

Part A: Introduction

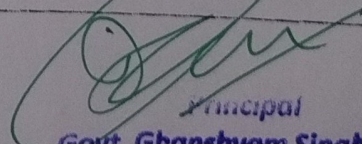
Program: Certificate Course	Class: B.A./B.Sc. I Year	Year: 2022	Session: 2022-2023
Course Code	MATH-1P (II)		
Course Title	II - Project 01 - History of Mathematician		
Course Type	Project		
Pre-requisite (if any)	NIL		
Course Learning Outcomes (CLO)	<p>Studying history of mathematicians help students:</p> <ul style="list-style-type: none"> • Develop a deeper understanding of the mathematics they have already studied by seeing how it was developed over time and in various places. • Know the rich intellectual heritage of the country. • Develop an appreciation of mathematics and build positive attitude towards mathematics increasing student's motivation decreasing anxiety related the subject. • To acquire knowledge about development of mathematics in ancient . medieval and modern period of history. 		
Credit Value	2		
Total Marks	Max. Marks: 50	Min Passing Marks : 17	

Part B: Content of the Course

Total Periods: 30

Project List	<p>Course Objectives:</p> <p>An elective course designed to acquire special / advance knowledge, such as supplement study / support study to a project work and a candidate will study such a course on his own with an advisory support a teacher / faculty member.</p> <p>Project</p> <p>Contributions and biographies of Indian Mathematicians- Bodhayan, Apastambh, Katyayan and Mahaveeracharya, Brahmagupta, and Bhaskaracharya in special context of Leelavati and contributions of mathematicians involved in context of the paper of calculus and algebra. (10 Mathematicians)</p>
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Part A: Introduction

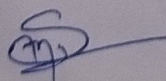
Program: Degree Course	Class: B.C.A. III Year	Year: 2022	Session: 2022-2023
1 Course Code	BCA-7P		
2 Course Title	LAB 7: Project		
3 Course Type	Practical		
4 Pre-requisite (if any)	Theoretical knowledge of Java and Python		
5 Course Learning Outcomes (CLO)	At the end of this course, the students will be able to: <ul style="list-style-type: none">• Evaluate the framework and characteristics of a project.• Identifying areas for improvement.		
6 Credit Value	Practical: 5		
7 Total Marks	Max. Marks: 100	Min Passing Marks : 33	

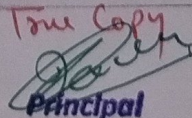
Part B: Important Guidelines for Project

Total Periods: 30

A project report has to be submitted as per the rules described below:

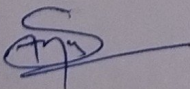
1. **Number of Copies:** The student should submit One hard bound copy of the Project Report with one RW/CD/DVD.
2. **No of students:** Every student has to submit separate project.
3. **Acceptance / Rejection of Project Report:** The student must submit a project report to the Head of Department/Project Guide for approval. The Head of Department/Project Guide holds the right to accept the project or suggest modifications for resubmission.
4. **Format of the Project Report :** The student must adhere strictly to the following format for the submission of the Project Report
 - I. **Paper:** The report shall be typed on white paper, A4 size or continuous computer stationary bond, for the final submission. The report to be submitted to the University must be original and subsequent copies may be photocopied on any paper.
 - II. **Typing:** The typing shall be of standard letter size, double-spaced and on one side of the paper only, using black ribbons and black carbons.
 - III. **Margins:** The typing must be done in the following margins
Left ---- 35mm, Right ---- 20mm
Top ---- 35mm, Bottom ---- 20mm
 - IV. **Binding:** The Report shall be Rexene bound in black. Plastic, spiral bound Project Reports not be accepted.
 - V. **Front Cover:** The front cover should contain the following details:
TOP: The title in block capitals of 6mm to 15mm letters.
CENTER: Full name in block capitals of 6mm to 10mm letters.
BOTTOM: Name of the University, year of submission- all in block capitals of 6mm to 10mm letters on separate lines with proper spacing and centring.
 - VI. **Blank Sheets:** At the beginning and end of the report , two white black bound papers should be provided, one for the purpose of binding and other to be left blank.

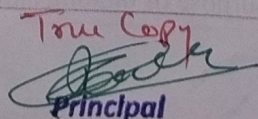


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5. **Abstract:** Every report should have an abstract following the Institute's Certificate. The abstract shall guide the reader by highlighting the important material contained in the individual chapters, section, subsection etc.
6. **Certificates etc:** The report should contain the following:
 - I. Certificate from Company
 - II. Institute Certificate: Successful completion of project by competent authority.
 - III. Acknowledgment
 - IV. List of Figures
 - V. Tables
 - VI. Nomenclature and Abbreviations
7. **Contents of the Project Report:** The project report must contain following in form of chapter, however student may include any other relevant chapter(s):
 - I. **Company Profile:** This chapter should highlight the company details. This would be chapter I and should include the main stream activity of the company, the product line of the company and the details of the department where the student has carried out his/her project work. This should not exceed two pages or 800 words.
 - II. **Introduction to the project:** This chapter shall highlight the purpose of project work, it will also define the chapters to be followed in the Project Report.
 - III. **Scope of work:** Brief scope of the project work done
 - IV. **Existing System and Need for proposed System:** If there is some system already in use, then give brief detail of it in order to help to understand the enhancements carried out by the student in the existing system.
 - V. **Operating Environment:** Hardware and Software required and used.
 - VI. **Proposed System:** Which may contain following:
 - a. **Objectives to be fulfilled:** clearly define the objective(s) of the system.
 - b. **User Requirements:** State the requirements of the use in an unambiguous manner.
 - c. **Requirements Determination Techniques and Systems Analysis Methods Employed:** Use the formal methods to describe the requirements of the use like Fact Finding Methods, Decision Analysis, Data Flow Analysis etc.
 - d. **Prototyping:** If the prototypes has been developed prior to the detailed design, then give details of the prototype.
 - e. **System Feature:** Which includes as follows:
 - Module specifications
 - D.F.D. and ER
 - System flow charts
 - Data Dictionary
 - Structure charts
 - Database /File layouts
 - Design of Input Design of Output screens and reports
 - User Interfaces
 - Design of Control Procedures
8. **Testing procedures and Implementation phase**
9. **Problems encountered, Drawbacks and Limitations**



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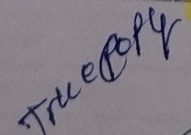
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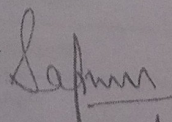
M.A. EXAMINATION IN SOCIOLOGY

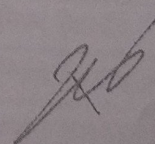
M.A. Examination in Sociology shall be conducted in four semesters, each having 500 hundred marks, totalling to 2000 marks.

The detailed Course Structure Semester wise is mentioned below.

Sl.	Paper No.	Title	Marks			Credit
			I	T	Total	
A. FIRST SEMESTER:						
Sr.	Paper	Subject	I	T	Total	
1	Paper-I/CC1	Classical Sociological Tradition	20	80	100	04
2	Paper-II/CC2	Philosophical and Conceptual Foundation of Research Methodology	20	80	100	04
3	Paper-III/CC3	Social Change in India	20	80	100	04
4	Paper-IV/CC4	Rural Sociology	20	80	100	04
5	Paper-V/P 1	Practical-I			100	04
B. SECOND SEMESTER						
6.	Paper-VI/CC5	Classical Sociological Thinkers	20	80	100	04
7.	Paper-VII/CC6	Quantitative Research Techniques in Sociology	20	80	100	04
8.	Paper-VIII/CC7	Sociology of Development	20	80	100	04
9.	Paper-IX/CC8	Indian Rural Society	20	80	100	04
10.	Paper-X/P2	Practical-II			100	04
C. THIRD SEMESTER						
11.	Paper-XI/CC9	Classical Sociological Theories	20	80	100	04
12.	Paper-XII/CC10	Social Movements in India	20	80	100	04
13.	Paper-XIII/CC11	Perspectives of Study to Indian Society	20	80	100	04
14.	Paper-XIV/CC12	Industry and Society in India	20	80	100	04
15	Paper-XV/CC13	Criminology	20	80	100	04
D. FOURTH SEMESTER						
16	Paper-XVI/CC14	Modern Sociological Theories	20	80	100	04
17	Paper-XVII/CC15	Comparative Sociology	20	80	100	04
18	Paper-XVIII/CC16	Contemporary Issues in Industry	20	80	100	04
19	Paper-XIX/CC17	Criminology: Correctional administration	20	80	100	04
20	Paper-XX/P3	Project Report	-	-	100	04


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 12/01/2023



HEMCHAND YADAV VISHWAVIDYALAYA, DURG (C.G.)

SYLLABUS FOR UNIVERSITY TEACHING DEPARTMENT AND AFFILIATED COLLEGES IN P.G. CLASSES

M.A. in Economics: Semester Examination 2023-24

At post graduate level, candidates are required to study 15 papers in First, Second and Third semester (5 papers in each semester) and 04 papers in fourth semester examination. This is to be treated as the nineteen papers of the course structure. So there shall be 19 papers in the post graduate examination in Economics. Viva - voce examination be treated as a compulsory paper for M.A. fourth semester examination. Each paper shall carry 100 marks out of which 80 marks will be for theory paper and 20 marks for internal assessment. There shall be 2000 marks in M.A. Candidates shall have secure 36 percent marks in aggregate of all papers in order to pass the M.A. Examination. Examination and result shall be treated according to rules and regulations of ordinance no. 13.

M.A. SEMESTER-I and SEMESTER-II

PAPER	SEMESTER-I	Marks			SEMESTER-II	Marks		
		Theory	Internal Assess	Credit		Theory	Internal Assess	Credit
PAPER-I	Micro Economics-I	80	20	04	Micro Economics-II	80	20	04
PAPER-II	Macro Economics-I	80	20	04	Macro Economics-II	80	20	04
PAPER-III	Statistical and Quantitative Methods	80	20	04	Research Methods & Computer Application	80	20	04
PAPER-	Indian Economy	80	20	04	Indian Economic	80	20	04
PAPER-	Industrial Economics	80	20	04	Labour Economics	80	20	04

M.A. SEMESTER-III and SEMESTER-IV

PAPER	SEMESTER-III	Marks			SEMESTER-IV	Marks		
		Theory	Internal Assessment	Credit		Theory	Internal Assess	Credit
PAPER-I	Economics of Growth	80	20	04	Economics of Development &	80	20	04
PAPER-II	International	80	20	04	International	80	20	04
PAPER-III	Public Finance	80	20	04	Public Economics	80	20	04
PAPER-IV	Environmental Economics	80	20	04	Economics of Social Sector	80	20	04
PAPER-V	Demography	80	20	04	Viva-Voce ✓	100	--	04

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LL.B. Third Semester
Paper-V

Professional Ethics & Professional Accounting System
(Clinical/Practical)

OUTLINE OF THE COURSE: Professional Ethics, Accountancy for Lawyers and Bar-Bench Relations

This Course will be taught in association with practicing lawyers on the basis of following materials.

- (i) Mr. Krishnamurthy Iyer's book on "Advocacy"
- (ii) The Contempt Law and Practice
- (iii) The Bar Council Code of Ethics
- (iv) 50 selected opinion of the Disciplinary Committees of Bar Councils and 10 major judgments of the Supreme Court on the subject
- (v) Other reading materials as may be prescribed by the University

SCHEME OF EXAMINATION

1. Written Examination 50
2. Seminar two (each of 10 marks) 20 by the Internal Examiner
3. Project Report (Emphasis on Constitutional Values) 20 by the External Examiner
4. Viva-Voce 10 by the External Examiner

The written examination shall be conducted from the prescribed course. The seminar shall also be conducted from the important topics of the materials. The presentation of Project Report and appearance in seminar and viva-voce examination is compulsory. The candidate who does not appear in seminar and viva-voce examination or who does not prepare Project Report will be declared fail in this paper.

The Practical work/Project Report shall be prepared by the students in own handwriting and then submitted in the College. The college on the basis of participation and record will forward the project report to the external examiner for evaluation at the time of viva. The evaluation shall be made by the external examiner on the basis of participation and record. The college after valuation shall be sent the diaries and marks to the University. Viva-voce shall be conducted by the external examiner appointment by University.

DETAILED COURSE CONTENT OF WRITTEN EXAMINATION (50 marks):

1. **GROWTH OF LEGAL PROFESSION & BEGINNING OF ADALAT SYSTEM - GENESIS NATURE AND EVOLUTION OF INDIAN BAR**
 - a) Evolution of Indian Bar - Regulating Act 1773. Bengal Regulation of 1793. and The Legal Practitioners Act 1846.
 - b) The Legal Practitioners Act 1853 and the legal practitioners Act 1879.
 - c) The Bar Councils Act 1926 and The Report of the All India Bar Committee 1953.
 - d) History and circumstances before the passing of the Advocate Act 1961.

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OR III -B: Electronics

- (1) Experiments with microprocessor. (a) Convert BCD in to binary & vice versa.
- (b) To transfer group of data blocks from one location to another location.
- (c) To write programme for addition & subtraction.
- (d) To write programme for multiplication & division.
- (2) Logic gate study DTL & RTL.
- (3) To study & verify the Demorgan's Theorem.
- (4) Study of Adder/ Subtract or.
- (5) Study of Encoder & Decoder.
- (6) Study of Multiplexer & DE multiplexer
- (7) Study of digital to analog converter.
- (8) Study of analog to digital converter.
- (9) Study of 4-bit Counter/ ripple Counter.
- (10) Study of left/right shift register.
- (11) Study of read only memory.
- (12) Study of Random Access Memory.
- (13) Study of Phase locked loop.
- (14) Study of BCD to seven segments Decoder.
- (15) Study of modulation & demodulation.
- (16) Optical fiber based experiment.
- (17) Microwave characterization and measurements.

OR III -B: Physics of Nano-material

- (1) Synthesis of II-IV semiconductor nanoparticles by Wet chemical method.
- (2) Synthesis of nanoparticles (ZrO_2) by Combustion method.
- (3) Synthesis of nanoparticles by Sol-gel method.
- (4) Synthesis of nanoparticles by Ball milling method.
- (5) Synthesis of Quantum cells structures using vacuum coating unit.
- (6) Synthesis of nanoparticles using Solid state reaction method.
- (7) Measurement of band gap energy and size of the nano particle of II-IV semiconductor using absorption spectrophotometer.
- (8) To make the peak analysis of IR transmission spectra of nanoparticle using FTIR spectrometer.
- (9) Study of effect of capping agent on the size of the nanoparticle during synthesis.
- (10) To determine the average particle size of nano materials by XRD using Sherer's formula.
- (11) To determine the Hall coefficient and carrier type for a semiconducting nanoparticles.
- (12) To determine the Band gap of a given semiconductor using Four probe method from room temperature to $100^\circ C$.
- (13) To determine the average size of nanoparticles using Zetasizer.
- (14) To measure the change of dielectric constant and dielectric loss of nanoparticle with the change of signal frequency by impedance analyzer.
- (15) To characterize the mechanical properties by tensile testing.
- (16) To estimate the particle size by SEM.
- (17) To perform electron diffraction analysis from TEM image.
- (18) To do roughness analysis of nanostructured sample using AFM.

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Lab III-A: Materials Science & General

At least ten experiments should be performed from the following list of experiments or parallel level experiment depending upon the facilities available.

1. To determine activation energy of ionic/superionic solid by Temperature depended conductivity measurement.
2. To study Electron Spin (ESR) Resonance in DPPH (Diphenyl Picryl Hydrazy) sample.
3. To study I-V characteristics of photovoltaic solar cell and find the efficiency. 7300/-
4. To study the decay of photoconductivity of given sample and find out trap depth.
5. Study of decay of photoluminescence of a given sample.
6. Measurement of electrical conductivity using Impedance Spectroscopy technique.
7. To determine drift velocities of Ag⁺ ion in AgI from temperature dependence of ionic transference number study.
8. Electrical conductivity of Ball milled/Mechano-chemical synthesized materials.
9. Determination of strength of a given radioactive source.
10. Study of complete spectra of radioactive sources, and study of photo peak efficiency of NaI (TI) crystal for different energy gamma rays.
11. Structural analysis of powder sample by XRD and particle size determination using Scherrer's formula.
12. FTIR studies of solid samples. 1000/- per sample
13. Mechanoluminescence of sucrose crystals.
14. Thermoluminescence of irradiated samples. 2500/-
15. Study of Op-Amp.-IC-741, is inverting/ Non inverting amplifier and draw frequency response curve. 5000/-
16. Construction of Schmitt triggers using IC-741 and study of its characteristics. 5000/-
17. Study of As table and monos table Multi Vibrator using IC 555. 9400/-
18. Digital electronics experiments on bread board using IC-7400. 2499/-

Lab III-B: Astronomy & Astrophysics

1. Study of Quasar.
2. Study of the orbit of a visual binary Star.
3. Determine the mass of Saturn & its rotational velocity.
4. Verification of Hubble's law and determination of Hubble's constant.
5. Identification of element from Fraunhofer spectrum of the sun.
6. Study of sun spots.
7. Study of light curves of Cepheid variable stars.
8. Study of Proper motion of stars.
9. Determination of Pulsar period and distance.
10. Photo-electric photometry of Pleiades star cluster.
11. Study of expansion of the universe and calculate the age of the Universe.

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M.A. Political Science

Semester-III and Semester-IV

SEMESTER - III	MARKS			SEMESTER - IV	MARKS		
	Theory	Internal	Credit		Theory	Internal	Credit
अंतर्राष्ट्रीय राजनीति के सिद्धांत (Principal of International Politics)	80	20	05	अंतर्राष्ट्रीय राजनीति के समकालीन मृद्दे (Contemporary issues of International Politics)	80	20	05
लोकप्रशासन भाग- 1 (Public Administration Part- 1)	80	20	05	लोकप्रशासन भाग- 2 (Public Administration Part- 2)	80	20	05
शोध प्रविधि भाग- 1 (Research Methodology Part- 1)	80	20	05	शोध प्रविधि भाग- 1 (Research Methodology Part- 2)	80	20	05
छत्तीसगढ़ का शासन एवं राजनीति (Government and Politics of Chhattisgarh)	80	20	05	अंतर्राष्ट्रीय कानून (International Law)	80	20	05
				Project Work VIVA-VOCE			
Total = 400			20	Total = 400			20

नियमावली-

- उपर्युक्त समस्त प्रश्न पत्र अनिवार्य होंगे।
- प्रत्येक प्रश्न पत्र में (सभी सेमेस्टर में) सैद्धान्तिक परीक्षा में 80 पूर्णांक होगा और 20 अंको का आन्तरिक मूल्यांकन होगा। इस प्रकार सभी प्रश्न पत्र में पूर्णांक 100 होगा।
- प्रत्येक प्रश्न पत्र में आन्तरिक मूल्यांकन होगा की दो परीक्षाएं होगी जिसके सर्वोच्च अंक विश्वविद्यालय के प्रेषित किए जाएंगे।
- प्रथम, द्वितीय और तृतीय सेमेस्टर में पूर्णांक 400 होगा। चतुर्थ सेमेस्टर में पूर्णांक 500 होगा।
- एम.ए. चतुर्थ सेमेस्टर में 100 अंको की मौखिक परीक्षा होगी जिसमें 50 अंक परियोजना कार्य पर होंगे और 50 अंको की मौखिक परीक्षा होगी।
- परियोजना कार्य - कौशल विकास, रोजगार मुखी, ग्रामीण विकास, देश के महापुरुष, प्रमुख राजनीतिज्ञ, राष्ट्रपति, प्रधानमंत्री, छत्तीसगढ़ की राजनीति और शासन व्यवस्था पर आधारित होगा।
- इस प्रकार एम.ए. राजनीति विज्ञान में कुल पूर्णांक 1700 होगा।
- प्रत्येक प्रश्न पत्र 4 इकाइयों में विभाजित होगा।

क्र.	दिन	सदस्य	हस्ताक्षर
(1)		डॉ. अमिता बक्षी	
(2)		डॉ. सुचिता रतोपागडे	
(3)		डॉ. राजवाला युक्त	
(4)		डॉ. सुनीता मिश्रा	
(5)		डॉ. मणि मेखला शुकल	

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M.Com IVth Semester

Special attention to the Students. Students are required to select any one Specialization out of four suggested below.

Optional – Specialization

- Optional Group – (A) Marketing
Optional Group – (B) Management
Optional Group – (C) Banking and Insurance
Optional Group – (D) Taxation and Accounting
Optional Group – (E) Business Environment & Finance and Research

Optional Group – (A) विपणन (Marketing)

प्रश्न पत्र	प्रश्नपत्र का नाम	पूर्णांक	क्रेडिट
Paper – A I प्रश्न पत्र–A I	विपणन के सिद्धान्त (Principle of Marketing)	80+20	04
Paper – A II प्रश्न पत्र–A II	विज्ञापन एवं विक्रय प्रबन्ध (Advertising & Sales Management)	80+20	04
Paper – A III प्रश्नपत्र–A III	विपणन अनुसन्धान (Marketing Research)	80+20	04
Paper – A IV प्रश्नपत्र –A IV	अन्तर्राष्ट्रीय विपणन (International Marketing)	80+20	04

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महत्वपूर्ण नोट :

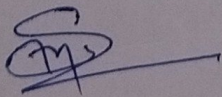
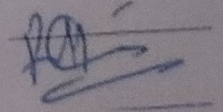
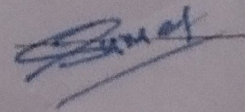
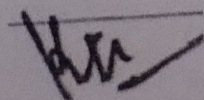
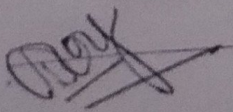
सत्र 2014-15 से एम. कॉम. प्रथम, द्वितीय एवं तृतीय सेमेस्टर में सभी प्रश्न-पत्र अनिवार्य होंगे। उक्त परीक्षा में वैकल्पिक प्रश्न-पत्र चयन की व्यवस्था नहीं होगी।

एम. कॉम. चतुर्थ सेमेस्टर में विशिष्टीकरण समूह (A), (B), (C), (D) या (E) में से किसी भी एक वैकल्पिक समूह का चयन कर उस समूह के सभी चार प्रश्न-पत्र अनिवार्य रूप से लेने होंगे।

एम. कॉम. चतुर्थ सेमेस्टर में उपरोक्त विशिष्टीकरण समूह के अतिरिक्त 50 अंक की मौखिक परीक्षा तथा 50 अंक का शोध प्रबंध परियोजना (Project Work) (अधिकतम 50 पृष्ठों का) तैयार करना अनिवार्य होगा। यह शोध प्रबंध परियोजना (Project Work) वाणिज्य या प्रबन्ध विषय से सम्बन्धित होगा। परीक्षार्थी का मूल्यांकन स्वयं उपस्थित के आधार पर होगा।

सभी प्रश्न-पत्रों में लिखित परीक्षा 80 अंकों की तथा 20 अंकों की आन्तरिक मूल्यांकन परीक्षा होगी। आन्तरिक मूल्यांकन के अंक परीक्षार्थियों की उपस्थिति, सेमीनार, शोध एवं शैक्षणिक कार्य में भागिता, इकाईवार मूल्यांकन परीक्षा आदि के आधार पर प्रदान किये जायेंगे।

आन्तरिक परीक्षा एवं बाह्य परीक्षा में प्रश्नपत्रवार न्यूनतम उत्तीर्णांक 20 होगा। जो अध्यादेश क्रमांक 170 के प्रावधानों के अनुसार बंधनकारी होगा।



Toulof
Principal

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