



Established in 1951

CHHOTU RAM ARYA COLLEGE



Sir Chhotu Ram

SONIPAT



Criteria-I Curricular Aspects

1.3: Curricular Enrichment

1.3.1: Cross-cutting Issues Relevant to Professional Issues Ethics Gender, Human Values, Environment and Sustainability in Transacting the Curriculum

MAHARSHI DAYANAND UNIVERSITY, ROHTAK Scheme of Examination (Semester System)

B.Sc. Part-I/II/III with Computer Science as a Subject

With effect from : 2012-2013

Year	Semester	Paper	Name of the Paper	Max. Marks	Internal Marks	Exam Hours
First Year with effect from : 2012-2013						
	1 st	1.1	Computer Fundamentals & MS-Office	40	10	3
		1.2	Computer Architecture	40	10	3
		1.3	* Practical Lab Work (Based on paper 1.1)			
	2 nd	2.1	Programming in C	40	10	3
		2.2	Structured Systems Analysis and Design	40	10	3
		2.3	Practical & Viva-voce (Based on Paper 1.1 & 2.1)	100	-	4
Second Year with effect from : 2013-2014						
	3 rd	3.1	Data Communication and Networking	40	10	3
		3.2	Object-Oriented Design and C++	40	10	3
		3.3	* Practical Lab Work (Based on paper 3.2)			
	4 th	4.1	Data Structures with C/C++	40	10	3
		4.2	Operating Systems	40	10	3
		4.3	Practical & Viva-voce (Based on Paper - 3.2 & 4.1)	100	-	4
Third Year with effect from : 2014-2015						
	5 th	5.1	Database Management System	40	10	3
		5.2	Introduction to Internet & Web Technologies	40	10	3
		5.3	* Practical Lab Work (Based on paper 5.1 & 5.2)			
	6 th	6.1	Visual Basic Programming	40	10	3
		6.2	Software Engineering	40	10	3
		6.3	Practical & Viva-Voce (Based on 5.1, 5.2 & 6.1)	100	-	4

* The University Practical Examinations will be held only once a year in Even semester i.e. 2nd, 4th and 6th semester.

* In ODD semesters, Practical Lab work to be conducted as mentioned above by the concerned Teachers in their Colleges/Departments Labs.

FIRST YEAR
First Semester with effect from : 2012-2013

Paper-1.1: Computer Fundamentals & MS-Office

Time: 3 Hrs.

Max. Marks: 40
Internal Marks: 10

Note: Examiner will be required to set NINE questions in all. Question Number 1 will consist of total 4 parts (short-answer type questions) covering the entire syllabus and will carry 8 marks. In addition to the compulsory question there will be four units i.e. Unit-I to Unit-IV. Examiner will set two questions from each Unit of the syllabus and each question will carry 8 marks. Student will be required to attempt FIVE questions in all. Question Number 1 will be compulsory. In addition to compulsory question, student will have to attempt four more questions selecting one question from each Unit

Unit-I

Introduction : Historical evolution of computers, Classification of computers, Block Diagram along its components and characteristics, Usefulness of Computers, Human being Vs computer, Computer as a tool, Applications of computers. **Number Systems:** Definition of Number system, necessity of binary number system, binary, decimal, octal and hexadecimal number system, inter-conversion of numbers, Representation of integers, fixed and floating points, BCD codes, Error detecting and correcting codes, character Representation-ASCII, EBCDIC, Binary arithmetic.

Unit-II

Input/Output Devices: Keyboards, mouse, joysticks, trackballs, digitizer, voice-recognition, optical-recognition, scanners, terminals, point-of-sale terminals, machine-vision systems. Hard-copy devices: Impact printers - DMPs, Daisy-wheel printers, Line-printers. Non-impact printers - Inkjet, Laser, Thermal, LED; Plotters. Soft-copy devices: Monitors, video-standards (VGA and SVGA). **Memory & Mass Storage Devices:** Characteristics of memory systems, types of memory, RAM, ROM, magnetic disks - floppy disk, hard-disk; optical disks - CD, CD-I, CD-ROM; Magnetic tapes; Concepts of Virtual and Cache memory

Unit-III

Software Concepts: Introduction, types of software - System & Application software; Language translators - Compiler, Interpreter, Assembler; Operating system - Characteristics, bootstrapping, types of operating, operating system as a resource manager; BIOS; System utilities - Editor, Loader, Linker, File Manager. Concept of GUI, GUI standards. Introduction to Algorithm & Flowcharts, Advantages & Disadvantages.

UNIT-IV

MS-OFFICE:MS-Word :- Creating a document, font operation, bullet and numbering, find & replace, hyper linking, mathematical operation, Create table and flow chart, Macro, Mail merge, Correcting grammar, protect files, difference between doc and docx.**MS-PowerPoint :-** Creating single and multiple slide, Animation, manual and automatic slide show, hyper linking, DFD, shape and style.**MS-Excel:-** Create sheet and rename sheet, table and operation, cells operation, hyper linking, Function(mathematic, logical), sort and data tools, protection(sheet, workbook).

Suggested Readings:

1. Gill, Nasib S.: Essentials of Computer and Network Technology, Khanna Book Publishing Co.,

MAHARSHI DAYANAND UNIVERSITY ROHTAK
DEPARTMENT OF COMMERCE
Scheme of Examination under CBCS
w. e. f Session:2016-17

M.Com First Semester

Sr. No.	Paper Code	Nomenclature of Paper	Theory Marks	Int. Ass.	Total Marks	Time	Credits (C+T+P)
1	16MCO21C1	Accounting Standards and Financial Reporting	80	20	100	3 Hours	4+1+0=5 Credits
2	16MCO21C2	Statistical Analysis for Business	80	20	100	3 Hours	4+1+0=5 Credits
3	16MCO21C3	Managerial Economics	80	20	100	3 Hours	4+1+0=5 Credits
4	16MCO21C4	Computer Application in Business	60	40 (Practical)	100	3 Hours	4+0+1=5 Credits
5	16MCO21D1 16MCO21D2 16MCO21D3	Student must choose one paper from the followings: (i) Entrepreneurship Development or (ii) Business Environment or (iii) Principles of Management	80	20	100	3 Hours	4+0+0=4 Credits

Details of Credits Per Week

M.Com First Semester:

Core Papers: (04 for Teaching +01 for Tutorial) X 4 = 20 Credits

Discipline Specific Elective Paper: (04 for Teaching only) X 1 = 04Credits

Total = 24Credits

Size of Groups : For Tutorial = 20 Students (one group)

For Practical = 15 Students (one group)

M.Com (Two Year Course) 1st Semester w.e.f. 2016-17

Business Environment

Paper Code: 16MCO21D2

Time: 3 hours

Max. Marks: 80

Credits: 4:0:0= 04

Course Outcomes:

- CO1: Systematically explores the external environment-legal & regulatory, macroeconomic, cultural, political, technological and natural.
- CO2: Analyze the environment of a business from the legal & regulatory, Macroeconomic, cultural, political, technological and natural perspectives.
- CO3: Discuss the supply and demand theory and its impact on insurance.
- CO4: Explain the effects of government policy on the economic environment and insurance industry.
- CO5: Outline how an entity operates in a business environment.

Note:The examiner shall set nine questions in all covering the whole syllabus. Question No.1 will be compulsory covering all the units and shall carry 8 small questions of two marks each. The rest of the eight questions will be set from all the four units. The examiner will set two questions from each unit out of which the candidate shall attempt four questions selecting one question from each unit. All questions shall carry 16 marks each.

- Unit-1** Theoretical Framework of Business Environment; Government Business Relationship:- Roles of government in business; Economic Implications of Indian Constitution- Preamble, Directive Principles of State Policy, Fundamental Rights, Centre-state relationship; Foreign Investment Policy; FEMA.
- Unit-2** Dualism in Indian Society and problem of uneven distribution of income; Emerging rural sector in India; Social responsibilities of Business; Consumerism in India; Consumer Protection Act. Economic Systems and Business Environment; Economic Planning in India – Types of Economic Plan; Pre-requisites of successful economic planning; Latest Five Year Plan.
- Unit-3** Economic Reforms in India; Industrial Policy – Policies of Pre and Post liberalization era; Industries (Development and Regulation) Act; Competition Policy and Competition Act; Small Scale Industries – Importance, Problems and Policies; Industrial Sickness – problem, magnitude and remedies.
- Unit-4** Public Sector- Objectives, pattern of growth; Changing role of public sector; Privatization and Disinvestments of public enterprises; Pricing policies in public enterprises. Multinational Corporations and its role; EXIM Policy(Latest): An overview of International Economic Institutions and their working – WTO, IMF, World Bank.

Suggested Readings:-

1. S.K.Bedi – Business Environment
2. FransisCherunilam – Business Environment – Himalya Publishing House.
3. P.K.Ghosh – Business & Government – Sultan Chand & Sons.
4. Adhikiary, M: Economic Environment of Business, Sultan Chand & Sons, New Delhi.

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DEPARTMENT OF COMMERCE
Scheme of Examination under CBCS
w. e. f Session: 2016-17

M.Com Second Semester

Sr. No.	Paper Code	Nomenclature of Paper	Theory Marks	Int. Ass.	Total Marks	Time	Credits (C+T+P)
1	16MCO 22C1	Management Accounting	80	20	100	3 Hours	4+1+0=5 Credits
2	16MCO 22C2	Investment Management	80	20	100	3 Hours	4+1+0=5 Credits
3	16MCO 22C3	Financial Management	80	20	100	3 Hours	4+1+0=5 Credits
4	16MCO22D1 Or 16MCO22D2 Or 16MCO22D3	Student must choose one paper from the followings: (i) International Economics or (ii) Strategic Financial Management or (iii) Organizational Behaviour	80	20	100	3 Hours	4+0+0=4 Credits
5		Foundation Elective Paper (To be chosen From the list of Foundation Elective Papers provided by the University)				3 Hours	2 Credits
6		Open Elective Paper (To be chosen from the list of Open Elective Papers provided by the university)				3 Hours	3 Credits

Details of Credits Per Week

M.Com Second Semester:

Core Papers : (04 for Teaching +01 for Tutorial) X 3 = 15 Credits

Discipline Specific Elective Papers: (04 for Teaching only) X 1 = 04Credits

Foundation Elective Paper: (02 for Teaching only) X 1 = 02Credits

Open Elective Paper: (03 for Teaching only) X 1 = 03 Credits

Total = 24 Credits

M.Com (Two Year Course) 2nd Semester w.e.f. 2016-17
Organisational Behaviour
Paper Code: 16MCO22D3

Time: 3 hours

Max. Marks: 80
Credits: 4:0:0=04

Course Outcomes:

- CO1: Students will gain a comprehensive understanding of the concept of Organisational Behaviour and Relationship to other fields and Learning.
- CO2: Students will understand about the Attitude, changing of attitude and aspects of personality.
- CO3: Students will learn about the Perception, factors influencing perception, Group Dynamics and Team Development.
- CO4: Will enable the students to learn about Organisational Conflict, its Dynamics, Traditional and modern approaches to conflict and Organisational development.

Note:The examiner shall set nine questions in all covering the whole syllabus. Question No.1 will be compulsory covering all the units and shall carry 8 small questions of two marks each. The rest of the eight questions will be set from all the four units. The examiner will set two questions from each unit out of which the candidate shall attempt four questions selecting one question from each unit. All questions shall carry 16 marks each.

- Unit-1** Organisational Behavior: concept and significance; Relationship to other fields ;OB Model, ethics and ethical behaviour in organizations. Learning: meaning and definition, process, theories of learning, OB in learning organization.
- Unit-2** Attitude: meaning and definition, components, functions, formation, changing of attitude, prejudice and attitude. Personality: meaning and definition, the big five personality model, the Myers-Briggs Type Indicator, additional work related aspects of personality.
- Unit-3** Perception: meaning and definition, process, factors influencing perception, perceptual errors or distortions.
Group Dynamics and Team Development: Group dynamics- definition and importance, types of groups, group formation, group development, group performance factors, group norms, group status, group size, cohesiveness, social loafing. Team: types, team composition factors, team development.
- Unit-4.** Organisational Conflict: Dynamics and management; sources, patterns, levels, and types of conflict; Traditional and modern approaches to conflict; Functional and dysfunctional organisational conflicts; Resolution of conflict.
Organisational development: Concept; Need for change, resistance to change; Theories of planned change; organisational diagnosis; OD intervention.

References

1. Griffin, Ricky W. ;OrganisationalBehaviour, Houghton Mifflin co., Boston.
2. Hellreigel, Don, John W. Slocum, Jr., and Richards W. Woodman:
3. Organizational Behavior, south western college Publishing, Ohio.

MAHARSHI DAYANAND UNIVERSITY ROHTAK
DEPARTMENT OF COMMERCE
Scheme of Examination under CBCS
w. e. f Session: 2017-18

M.Com Third Semester

Sr. No.	Paper Code	Nomenclature of Paper	Theory Marks	Int. Ass.	Total Marks	Time	Credits (C+T+P)
1	17MCO 23C1	Portfolio Management	80	20	100	3 Hours	4+1+0=5 Credits
2	17MCO 23C2	Corporate Tax	80	20	100	3 Hours	4+1+0=5 Credits
3	17MCO23DA1 or 17MCO23DA2 or 17MCO23DA3	Student must choose one paper from the followings : (i) Marketing Concepts & Decisions or (ii) Project Management or (iii) Management of Financial Services	80	20	100	3 Hours	4+0+0=4 Credits
4	17MCO23DB1 Or 17MCO23DB2 Or 17MCO23DB3	Student must choose one paper from the followings : (i) International Finance or (ii) Service Marketing or (iii) Advance Cost Accounting	80	20	100	3 Hours	4+0+0=4 Credits
5		Open Elective Paper (To be chosen from the list of Open Electives Papers provided by the university)				3 Hours	3 Credits

Details of Credits Per Week

M.Com Third Semester:

Core Papers: (04 for Teaching + 01 for Tutorial) X 2 = 10 Credits

Discipline Specific Elective Paper: (04 for Teaching only) X 2 = 08 Credits

Open Elective Paper: (03 for Teaching only) X 1 = 03 Credit

Total = 21Credits

M.Com (Two Year Course) 3rd Semester w.e.f. 2017-18

Project Management
Paper Code: 17MCO23DA2

Time: 3 hours

Max. Marks: 80
Credits: 4:0:0=04

Course Outcome:

CO1: Manage the scope, cost, timing, and quality of the project, at all times focused on project success as defined by project stakeholders.

CO2: Apply project management practices to the launch of new programs, initiatives, products, services, and events relative to the needs of stakeholders.

CO3: Implement project management knowledge, processes, lifecycle and the embodied concepts, tools and techniques in order to achieve project success.

CO4: Utilize technology tools for communication, collaboration, information management, and decision support.

Note:The examiner shall set nine questions in all covering the whole syllabus. Question No.1 will be compulsory covering all the units and shall carry 8 small questions of two marks each. The rest of the eight questions will be set from all the four units. The examiner will set two questions from each unit out of which the candidate shall attempt four questions selecting one question from each unit. All questions shall carry 16 marks each.

Unit-I

Basics of Project Management: Introduction, Need for Project Management, Project Management Knowledge Areas, The Project Life Cycle, The Project Manager (PM), Phases of Project Management Life Cycle, Project Management Processes, Impact of Delays in Project Completions, Essentials of Project Management Philosophy, Project Management Principles

Project Planning: Introduction, Project Planning, Need of Project Planning, Project Life Cycle, Roles, Responsibility and Team Work, Project Planning Process, Work Breakdown Structure (WBS)

Unit-II

Project Identification and Selection: Introduction, Project Identification Process, Project Initiation, Pre-Feasibility Study, Feasibility Studies, Project Break - Even -Point

Unit-III

Organisational Structure and Organisational Issues: Introduction, Concept of Organisational Structure, Roles and Responsibilities of Project Leader, Relationship between Project Manager and Line Manager, Leadership Styles for Project Managers, Conflict Resolution, Team Management and Diversity Management, Change management

Resources Considerations in Projects: Introduction, Resource Allocation, Scheduling, Project Cost Estimate and Budgets, Cost Forecasts

Unit-IV

Project Performance Measurement and Evaluation: Introduction, Performance Measurement, Productivity, Project Performance Evaluation, Benefits and Challenges of Performance Measurement and Evaluation, Controlling the Projects

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DEPARTMENT OF COMMERCE
Scheme of Examination under CBCS
w. e. f Session : 2017-18

M.Com Fourth Semester

Sr. No	Paper Code	Nomenclature of Paper	Theory Marks	Int. Ass.	Total Marks	Time	Credits (C+T+P)
1	17MCO 24C1	Cost Accounting Standards & Reporting	80	20	100	3 Hours	4+1+0=5 Credits
2	17MCO 24C2	Corporate Tax Planning and Management	80	20	100	3 Hours	4+1+0=5 Credits
3	17MCO 24C3	Business Research Methods	80	20	100	3 Hours	4+1+0=5 Credits
4	17MCO24DA1 Or 17MCO24DA2 Or 17MCO24DA3	Student must choose one paper from the followings : (i) Human Resource Management or (ii) Working Capital Management or (iii) Strategic Management	80	20	100	3 Hours	4+0+0=4 Credits
5	17MCO24DB1 Or 17MCO24DB2 Or 17MCO24DB3	Student must choose one paper from the followings : (i) International Business Environment or (ii) Production Management or (iii) Advance Accounting	80	20	100	3 Hours	4+0+0=4 Credits
6	17MCO24DC1 Or 17MCO24DC2 Or 17MCO24DC3	Student must choose one paper from the followings : (i) Financial Derivatives & Risk Management Or (ii) International Marketing Or (iii) Cost Management	80	20	100	3 Hours	4+0+0=4 Credits

Details of Credits Per Week

M.Com Fourth Semester:

Core Papers: (04 for Teaching +01 for Tutorial) X 3 = 15 Credits

Discipline Specific Elective Papers: (04 for Teaching only) X 3 = 12 Credits

Total = 27 Credits

M.Com (Two Year Course) 4th Semester w.e.f. 2017-18
Human Resource Management
Paper Code: 17MCO24DA1

Time: 3 hours

Max. Marks: 80
Credits: 4:0:0 =04

Course Outcome:-

- CO1: This subject prepares the student for the most critical ingredient of the business i.e. HRM.
CO2: To be able to understand the Importance, Objective and Scope of Human Resource Management (HRM).
CO3: To learn about the steps, Techniques/methods of Recruitment, Selection, Training and Management Development.
CO4: To gain an insight about the Wage and Salary Administration and Wage Incentives
CO5: To be able to develop strategic action plans by about Human Resources Development, Industrial Relationship and Industrial Unrest

Note:The examiner shall set nine questions in all covering the whole syllabus. Question No.1 will be compulsory covering all the units and shall carry 8 small questions of two marks each. The rest of the eight questions will be set from all the four units. The examiner will set two questions from each unit out of which the candidate shall attempt four questions selecting one question from each unit. All questions shall carry 16 marks each.

Unit-I

Human Resource Management- An Introduction, Nature, Features, Scope, Objectives and importance of Human Resource Management; Functions of Human Resource Management- Managerial and Operative functions; Qualification and Qualities of Human Resource Manager in an Organisation; Evolution and growth of Human Resource Management in India, Recent Techniques in Human Resource Management (HRM).

Unit-II

Workers Participation in management (W.P.M): Concept, Need, Objectives and Forms of W.P.M ; Pre-requisites of effective participation, Evaluation of the scheme of W.P.M., Essential features, Functions and progress of Joint Management Councils in India, Causes of failure of Joint Management Councils.

Unit-III

Trade Unions: Concept, Need, Functions and Objectives of Trade Unions, Origin, Growth and development of Trade Unions in India, Difficulties and Principal drawbacks of Trade Unions movement in India.

Collective Bargaining: Concept, nature, Scope and functions of Collective Bargaining in India, Essentials for the success of collective Bargaining in India.

Unit-IV

Employee Morale: Concept, Nature and significance of morale, Determinants of morale and measurement of morale.

Productivity: Concept and significance of productivity, Measurement of Productivity, Factors influencing Industrial productivity, measures to improve productivity and relationship between morale and productivity.

Suggested Readings:-

1. Rao.P.Subba, Essentials of Human Resource Management, Himalaya Publishing House, Bombay.

M.Com (Two Year Course) 4th Semester w.e.f. 2017-18
International Business Environment
Paper Code: 17MCO24DB1

Time: 3 hours

Max. Marks: 80
Credits: 4:0:0 =04

Course Outcomes:

CO1: Will enable the students understand the meaning ,nature and importance of international International Business and Environment

CO2: Will acquaint the students with the International Economic Cooperation and Agreements, SAARC, SAPTA, Indo-Lanka Free Trade Agreements, NAFTA.

CO3: Will help students to gain understanding pertaining to IMF, WB, ADB, UNCTAD, IMODO and WTO.

CO4: Will enable the students to acquaint with various international capital and money market instruments

Note: The examiner shall set nine questions in all covering the whole syllabus. Question No.1 will be compulsory covering all the units and shall carry 8 small questions of two marks each. The rest of the eight questions will be set from all the four units. The examiner will set two questions from each unit out of which the candidate shall attempt four questions selecting one question from each unit. All questions shall carry 16 marks each.

Unit-1

International Business and Environment: Meaning, Nature, significance, dimensions, types Level of International Business and its Environment; Business Environment and strategic decisions: Geographic, Economic, political, Demographic, Social/Cultural and Regulatory Framework.

Unit-2

International Economic Cooperation and Agreements; Regional Economic Integration (Trade Blocks); Integration, Customs-Union, European Union, Indo-Eu Trade, Euro, south – south cooperation (SAARC, SAPTA, Indo-Lanka Free Trade Agreements, NAFTA. International commodity Agreements; Generalised and Global systems of Trade Preferences (GSP & GSTP); International Trade and Investment Theories.

Unit-3

International Economic Institutions: IMF, WB, ADB, UNCTAD, IMODO and WTO Multi-Fibre Arrangement (MFA); International Trade and Payments (Protectionism, Barriers: Tariff & Non-Tariff); State-Trading, Foreign-Trade Policy; Global Sourcing, BOPs, BOT and Indian scene.

Unit-4

Foreign Exchange Market: Types of Exchange Rates,. Participation in Foreign Exchange Market, types of foreign Exchange Market, ER Quotas. Determination of Foreign Exchange Rates; Futures, Options and Swap-Operations, Arbitrage, convertibility of Rupee. ER-Arrangements in India.

Suggested Readings:-

- 1 Bhattacharya, B :Going International Response Strategies for Indian Sector,Wheeler

B.Com (Pass Course)
Scheme of Examinations & Syllabi w.e.f session 2018-19

B.Com-I (1st Semester)

S.No.	Nomenclature of the Paper	Theory Marks	Internal Assessment	Total Marks	Time
1.01	Financial Accounting-I	80	20	100	3 Hrs.
1.02	Business Mathematics-I	80	20	100	3 Hrs.
1.03	Business Economics-I	80	20	100	3 Hrs.
1.04	Business Management –I	80	20	100	3 Hrs.
1.05	Business Communication Skills	80	20	100	3 Hrs.
1.06	Basics of computers-I	50	50 (Practical)	100	3 Hrs.

Total Marks = 600

B.Com-I (IInd Semester)

S.No.	Nomenclature of the Paper	Theory Marks	Internal Assessment	Total Marks	Time
2.01	Financial Accounting -II	80	20	100	3 Hrs.
2.02	Business Mathematics-II	80	20	100	3 Hrs.
2.03	Business Economics-II	80	20	100	3 Hrs.
2.04	Business Management –II	80	20	100	3 Hrs.
2.05	Business Environment	80	20	100	3 Hrs.
2.06	Basics of computers-II	50	50 (Practical)	100	3 Hrs.

Total Marks = 600

Environmental Studies (Qualifying Paper)

Total marks of 1st Year (1st and 2nd Semester) = 600 + 600 =1200

B.Com-II (Pass Course)
Scheme of Examinations & Syllabi w.e.f. session 2018-19

B.Com-II -IIIrd Semester

S.No.	Nomenclature of the Paper	Theory Marks	Internal Assessment	Total Marks	Time
3.01	Corporate Accounting-I	80	20	100	3 Hrs.
3.02	Business Statistics-I	80	20	100	3 Hrs.
3.03	Business Regulatory Framework-I	80	20	100	3 Hrs.
3.04	Corporate Law-I	80	20	100	3 Hrs.
3.05	Human Resource Management	80	20	100	3 Hrs.
3.06	Optional (Any one from the followings)	80	20	100	3 Hrs.
	i. Fundamental of Insurance				
	ii. Basics of Retailing				
	iii. Production Management				
	iv. Computer: Application of Information Technology in Business –I				

Total Marks = 600

B.Com-II -IVth Semester

S.No.	Nomenclature of the Paper	Theory Marks	Internal Assessment	Total Marks	Time
4.01	Corporate Accounting-II	80	20	100	3 Hrs.
4.02	Business Statistics-II	80	20	100	3 Hrs.
4.03	Business Regulatory Framework-II	80	20	100	3 Hrs.
4.04	Corporate Law-II	80	20	100	3 Hrs.
4.05	Marketing Management	80	20	100	3 Hrs.
4.06	Optional (Any one from the followings)	80	20	100	3 Hrs.
	i. Business Ethics				
	ii. Banking and Banking Law				
	iii. Secretarial Practices				
	iv. Computer: Application of Information Technology in Business –II				

Total Marks = 600

Total Marks of IInd Year (3rd and 4th Semester) = 600 + 600 = 1200

B.Com I First Semester w.e.f session 2018-19
Business Communication Skills
Code: 1.05

Time: 3 Hours

Theory Paper Max Marks: 80
Internal marks: 20

Note:- The Examiner shall set nine questions in all covering the whole syllabus. Question No.1 will be compulsory covering all the units and shall carry 8 small questions of 2 marks each. The rest of the eight questions will be set from all the four units. The examiner will set two questions from each unit out of which the candidate shall attempt four questions selecting one question from each unit. All the questions shall carry 16 marks each.

Unit-I

Introduction: Basics of communication, Seven C's of effective communication, barriers to communication, ethical context of communication.

Unit-II

Business Communication at workplace: Letter writing- component, layout and process, E- mail communication, bad news messages, persuasive written communication, memos, notice, agenda and minutes of meeting.

Unit-III

Report Writing: Types of business reports, structure of reports, short reports, long reports, abstracts and summaries, proposals.

Unit-IV

Communication Skills: Reading skills, listening skills, note making, persuasive speaking. Body language, Gestures.

Suggested Readings:

1. *Murphy, Herta A., Herbert W. Hildebrandt and Jane P. Thomas, Effective Business Communication, Tata McGraw Hill, New Delhi.*
2. *Koneva Arun, Professional Communication, Tata McGraw Hill, New Delhi.*
3. *McGrath, E. H., Basic Managerial Skills for All, PHI, New Delhi.*
4. *Meenakshi Raman and Parkash Singh, Business Communication, Oxford University Press, New Delhi.*

B.Com I Second Semester w.e.f session 2018-19
Business Environment
Code: 2.05

Time: 3 Hours

Theory Paper Max Marks: 80
Internal marks: 20

Note:- The Examiner shall set nine questions in all covering the whole syllabus. Question No.1 will be compulsory covering all the units and shall carry 8 small questions of 2 marks each. The rest of the eight questions will be set from all the four units. The examiner will set two questions from each unit out of which the candidate shall attempt four questions selecting one question from each unit. All the questions shall carry 16 marks each.

Unit-I

Business Environment: concept; components and importance; SWOT Analysis.

Unit-II

Economic Trends (overview); income; savings and investment; industry; Trade and balance of payments.

Unit-III

Problems of Growth: Unemployment, regional imbalances, inflation, parallel economy and industrial sickness.

Unit-IV

Role of Govt. in Indian Economy: Monetary and Fiscal Policy; Industrial Policy; Privatization.

Suggested Readings:

1. Agarwal A.N. , *Indian Economy*, Vikas Publishing House, New Delhi.
2. Mirsra and Puri; *Indian Economy*; Himalaya Publishing House, New Delhi.
3. Hedge Lan, *Environmental Economics*; McMillan Hampshire.

B.Com – II- 1Vth Semester w.e.f. session 2018-19
Optional Paper: Business Ethics
Code: 4.06 (i)

Time: 3 Hours

Theory Paper Max Marks: 80
Internal marks: 20

Note: - The Examiner shall set nine questions in all covering the whole syllabus. Question No.1 will be compulsory covering all the units and shall carry 8 small questions of 2 marks each. The rest of the eight questions will be set from all the four units. The examiner will set two questions from each unit out of which the candidate shall attempt four questions selecting one question from each unit. All the questions shall carry 16 marks each.

Unit-I

Thinking conceptually about Politics: Liberty, Equality, Justice, Rights and Recognition, The idea of a good society. Concept of Business Ethics.

Unit-II

Domain of Politics and ethics: Democracy and Welfare State, Market and Globalization. Approaches to Moral Reasoning: Consequentialism, Deontology, Teleological reasoning.

Unit-III

Politics and Ethics in Business: Corporate Code of Ethics. a) Environment
b) Accountability c) Responsibility d) Leadership
e) Diversity

Corporate Social Responsibility. Arguments For and Against; Strategic Planning and corporate social Responsibility; Corporate Philanthropy.

Unit-IV

Corruption, corporate scandals, whistle blowing, insider trading, discrimination:

Gender Sensitization: Meaning, Definition, Gender Roles, Gender Equality, Gender Differentiation, Crucial Role of Gender Sensitization in Gender Mainstreaming, , Sex Ratio as per Census of India 2011, Role of Government in Gender Sensitization

Suggested Readings:

1. *Dr. F.C.Sharma, Business Values & Ethics – Shree Mahavir Book Depot, Nai Sarak, New Delhi.*
2. *C.S.V Murthy – Business Ethics, Himalya Publishing House.*
3. *Shina Parkashan – Managerial Ethics – Rajat Publications.*
4. *C.L.Dave – Social Accounting – Renuka Publishers, Jodhpur.*

B.COM-I (HONS)**Scheme of Examinations w.e.f. session 2014-15****First Semester**

Sr.No.	Paper No.	Nomenclature of the Paper	Theory Marks	Int. Ass. Marks	Total Marks	Time
1.	BCH-1.01	An Introduction to Statistics	80	20	100	3 Hrs.
2.	BCH-1.02	Business Communication	80	20	100	3 Hrs.
3.	BCH-1.03	Business Organisation	80	20	100	3 Hrs.
4.	BCH-1.04	An Introduction to Accounting	80	20	100	3 Hrs.
5.	BCH-1.05	Fundamentals of Economics	80	20	100	3 Hrs.
6.	BCH-1.06	Business Law-I	80	20	100	3 Hrs.
		*Comprehensive Viva-Voce	--	--	50	

Total Marks 650**Second Semester**

Sr.No.	Paper No.	Nomenclature of the Paper	Theory Marks	Int. Ass. Marks	Total Marks	Time
1.	BCH-2.01	Financial Accounting for Business	80	20	100	3 Hrs.
2.	BCH-2.02	Business Economics	80	20	100	3 Hrs.
3.	BCH-2.03	Business Statistics	80	20	100	3 Hrs.
4.	BCH-2.04	Business Management	80	20	100	3 Hrs.
5.	BCH-2.05	Business Law-II	80	20	100	3 Hrs.
6.	BCH-2.06	Introduction to Computers	60	40 (P)	100	3 Hrs.
		*Comprehensive Viva-Voce	--	--	50	

Environmental Studies (Qualifying Paper)**Total Marks 650****Total Marks of 1st and 2nd semester 650 + 650 = 1300**

B.Com (Hons.)-1st Semester w.e.f. session 2014-15
Paper : Business Law-I
BCH. 1.06

Max. Marks: 80.

Time: 3 Hrs.

Note: The examiner shall set nine questions in all covering the whole syllabus. Question No.1 will be compulsory covering all the units and shall carry 8 small questions of two marks each. The rest of the eight questions will be set from all the four units. The examiner will set two questions from each unit out of which the candidate shall attempt four questions selecting one question from each unit. All questions shall carry 16 marks each.

Unit-I

The Indian Contract Act 1872: Contract – meaning, characteristics and kinds, essentials of valid contract – offer and acceptance, consideration, contractual capacity, free consent, legality of objects.

Unit-II

Void agreements, Discharge of contract – modes of discharge including and its remedies. Contingent contracts. Quasi – contracts.

Unit-III

Contract of Indemnity and Guarantee, Contract of Bailment, Contract of Agency. Consumer Protection Act.

Unit-IV Sale of Goods Act 1930. Contract of sale, meaning and difference between sale and agreement to sell. Conditions and warranties, Transfer of ownership in goods including sale by non-owners, Performance of contract of sale, unpaid seller – meaning and rights of an unpaid seller against the goods and the buyer.

Suggested Readings:

1. *M.C.Kuchhal, Business Laws, Sultan Chand & Co., New Delhi.*
2. *N.D.Kapoor, Merchantile Law, Sultan Chand & Co., New Delhi.*
3. *Textman*

B.Com (Hons) IInd Sem. w.e.f. session 2014-15
Paper : Business Law-II
BCH-2.05

Max Marks: 80.

Time: 3 Hrs.

Note: The examiner shall set nine questions in all covering the whole syllabus. Question No. 1 will be compulsory covering all the units and shall carry 8 small questions of two marks each. The rest of the eight questions will be set from all the four units. The examiner will set two questions from each unit out of which the candidate shall attempt four questions selecting one questions from each unit. All questions shall carry 16 marks each.

Unit-I

Indian Partnership Act 1932: Nature of Partnership firm, Test of Partnership, Partnership distinguishes from co-ownership and Joint Hindu Family, Relations of partners to third parties, Duties and rights of partners; Minor as a partner; Incoming and outgoing Partners; Registration of firms; Dissolution of firm-modes, Consequences of dissolution; Settlement of Accounts.

Unit-II

The Foreign Exchange Management Act: Salient feature of FEMA.

Unit-III

Industrial Dispute Act, 1947: causes & forms of Industrial Disputes; Authorities under the Act- their powers, duties etc. Adjudication Machinery- Powers, duties etc. Strikes and lockout; Layoff and Retrenchment.

Unit-IV

The Factories Act-1948: Approval, Licensing & Registration of Firms, Notice regarding occupier, Inspecting Staff, Certifying Surgeons, Health, Safety and Welfare of Workers. Working hours of Adults, Restrictions on Employment of women. Employment of young persons, Annual leave with Wages.

Suggested Readings:

1. *Resai T.R. Partnership Act, S.C.Sarkar and Sons, Kolkata.*
2. *Kuchal M.C. Business Law, Vikas Publishing House, New Delhi.*
1. *Kapoor N.D. Business Law, Sultan Chand and Sons, New Delhi*

Department of Geography, M. D. University, Rohtak

Course outline/Structure and scheme of examination of M.A. Geography four semesters course with Choice Based Credit System (CBCS) from the Session 2016-17 onwards.

M.A. Geography shall be of two years duration spread over four semesters. The duration of examination for theory and practical papers shall be three and four hours respectively. Practical examination shall be conducted by two external examiners out of the panel recommended by the P.G. Board of Studies in Geography. Marks of the internal assessment shall be awarded as per the laid down norms of the university. Soft Core and Open Elective Papers will be floated according to the administrative and academic convenience of the department.

Sem	Paper Code	Nomenclature	Hours Per Week (L+T+P)	Marks		Examination Hours	Credit (L+T+P)
				Internal	End Semester		
1 st	16GEO21C1	Geomorphology	04 (3+1+0)	20	80	03	3+1+0
	16GEO21C2	Climatology	04 (3+1+0)	20	80	03	3+1+0
	16GEO21C3	Resource Geography	04 (3+1+0)	20	80	03	3+1+0
	16GEO21C4	Statistical Methods in Geography	04 (3+1+0)	20	80	03	3+1+0
	16GEO21CL1	Practical Topographical Sheets and Its Interpretation	06 per student	-	50	04	0+0+3
	16GEO21CL2	Practical- Computer Aided Statistical Diagrams and Graphs	06 per student	-	50	04	0+0+3
	Credits	C=22 F=2	Total Credits=22-24				

Sem	Paper Code	Nomenclature	Hours Per Week (L+T+P)	Marks			Exam Hours	Credit (L+T+P)	
				Internal	End Semester	Total			
2nd	16GEO22C1	Geography of World Economy	04 (3+1 +0)	20	80	100	03	3+1 +0	
	16GEO22C2	Regional Development and Planning	04 (3+1 +0)	20	80	100	03	3+1 +0	
	16GEO22C3	Environmental Geography	04 (3+1 +0)	20	80	100	03	3+1 +0	
	16GEO22D1	Urban Geography	04 (3+1 +0)	20	80	100	03	3+1 +0	
	16GEO22D2	Cultural Geography	04 (3+1 +0)	20	80	100	03	3+1 +0	
	16GEO22D3	Geography of India	04 (3+1 +0)	20	80	100	03	3+1 +0	
	16GEO22D4	Geography of Rural Settlements	04 (3+1 +0)	20	80	100	03	3+1 +0	
	16GEO22D5	Soil Geography	04 (3+1 +0)	20	80	100	03	3+1 +0	
	16GEO22CL1	Practical -Digital Cartography	06 per student	-	50	50	04	0+0+3	
	16GEO22CL2	Practical -Morphometric Analysis	06 per student	-	50	50	04	0+0+3	
	Foundation Course								
	16GEOF1	Geography in Everyday Life	02(2+0+0)	10	40	50	03	2+0+0	
	Open Elective Course								
16GEOO1	Basics of Geo- Informatics	03 (2+1 +0)	20	80	100	03	2+1+0		
16GEOO2	Geography of India: Systematic and Regional	03 (2+1 +0)	20	80	100	03	2+1+0		
			C=18 D=04 SO=03	Total Credits=18-25					

1. Foundation Course (02 credits) ,either in semester I/II to be chosen from the basket provided by the University.
2. Open Elective Course (03 credits) to be chosen from the basket of Open Elective Courses provided by the University.

Sem	Paper Code	Nomenclature	Hours Per Week (L+T+P)	Marks			Exam Hours	Credit (L+T+P)	
				Internal	End Semester	Total			
3rd	17GEO23C1	Remote Sensing and GIS	04 (3+1 +0)	20	80	100	03	3+1 +0	
	17GEO23C2	Geography of Transport	04 (3+1 +0)	20	80	100	03	3+1 +0	
	17GEO23D1	Bio Geography	04 (3+1 +0)	20	80	100	03	3+1 +0	
	17GEO23D2	Political Geography	04 (3+1 +0)	20	80	100	03	3+1 +0	
	17GEO23D3	Social Geography	04 (3+1 +0)	20	80	100	03	3+1 +0	
	17GEO23D4	Hydrology	04 (3+1 +0)	20	80	100	03	3+1 +0	
	17GEO23D5	Oceanography	04 (3+1 +0)	20	80	100	03	3+1 +0	
	17GEO23CL1	Practical -Field Work	06 per student	-	50	50	04	0+0+3	
	17GEO23CL2	Practical -GIS	06 per student	-	50	50	04	0+0+3	
	Open Elective Course								
		17GEO23O1	Introduction to Geography	03 (2+1 +0)	20	80	100	03	2+1 +0
		17GEO23O2	Sources of Geographical Data	03 (2+1 +0)	20	80	100	03	2+1 +0
			Total Credits=21-25						
			C=14 D=04 O=03						

1. Open Elective (03 credits) to be chosen from the basket of Open Electives (OEs) provided by the University.

M.A. Geography Semester-I Session 2016-17 Onwards

16GEO21C2 CLIMATOLOGY

Credit: 04 (3+1+0)
End Semester Exam: 80 marks
Internal Assessment: 20 marks
Total: 100 marks Time: 3 hrs.

Learning Objectives

The atmosphere and climate are a critical part of the earth system, and climatic variability and change are central to the issue of current and future global environmental change. The broad objective of the course is to introduce to the students the fundamentals of atmospheric phenomena, global climate systems and climate change.

Learning Outcomes

On successful completion of this course, students should be able to understand the mean global atmospheric circulations and disturbances, world climate systems, climatic variability and change.

Unit-I

Nature and Scope of Climatology; Climatic elements – atmospheric temperature, pressure, moisture, general atmospheric circulations jet stream.

Unit-II

Weather system and disturbances – air-mass, fronts, cyclones, tornades; Ocean atmospheric interaction- El Nino, Monsoon winds.

Unit-III

Global climate system - Approaches to climatic classification; Classification of Koppen, and Thornthwaite; Major Climates of the world-tropical and polar.

Unit-IV

Climatic changes - evidences, possible causes, global warming acid rain and problems of acid rain.

Note: The question paper will have five units. First four units of question paper will contain two questions from each unit of the syllabus. Candidate(s) are required to attempt one question from each unit. The unit five shall be compulsory and shall contain eight short answer type questions covering entire syllabus. All questions carry equal marks.

Recommended Readings:

1. Aggarwal, S.K. (1972), **Fundamentals of Ecology**, Ashish Publishers, New Delhi.
2. Barry, R.G. and Chorely, R.J., **Atmosphere, Weather and Climate**, ELBS, Methuen & Co. Ltd. London.
3. Bhutani, Smita, (2000) **Our Atmosphere**, Kalyanai Publishers, New Delhi.

M.A. Geography Semester-II Session 2016-17 onwards

16GEO22C3 ENVIRONMENTAL GEOGRAPHY

Credit: 04 (3+1+0)
End Semester Exam : 80 marks
Internal Assessment : 20 marks
Total : 100 marks
Time : 3 hrs.

Learning Objectives:

The basic objectives of the course are to apprise the students about our environment, to understand its interrelationship with man and his linkages with other organisms, which varies in different biomes. Also, to sensitise the students with the Environmental problems and degradations.

Learning Outcomes:

The Students will learn the importance of conserving biodiversity to maintain ecological balance as well as national and international concerns on various environmental issues.

Unit-I

Environmental Geography: Nature and scope of environmental geography, fundamental concepts of environmental geography; Approaches and methods in Environmental Geography; Relationship with other branches of knowledge, Environment and Ecology: Meaning, structure and type of Environment, Ecology - meaning, scope and concepts. Sub-vision of ecology.

Unit-II

Ecosystem: Meaning and concepts of ecosystem, Classification and components of eco-system, trophic structure, ecological pyramid, energy flow and biogeochemical cycle; Ecological regions of India.

Unit-III

Environmental pollution- meaning, types, sources, causes and impacts; Air, Water and Land pollutions; Environmental Degradation – Nature, process, types and causes of environmental degradation; Green house effect, Global warming, Ozone depletion and Desertification.

Unit-IV

Environmental management- concept, methods and approaches. Management of soil, forest and mineral resources; Disaster Management; Conservation of natural resources; Emerging environmental problems and issues in India, Environmental policies, programmes, awareness and movements in India.

Note :

The question paper will have five units. First four units of question paper will contain two questions from each unit of the syllabus. Candidate(s) are required to attempt one question from each unit. The unit five shall be compulsory and shall contain eight short answer type questions covering entire. All questions carry equal marks.

Recommended Readings:

1. Anderson J.M. (1981): Ecology for Environmental Science : Biosphere, Ecosystems and Man, Arnold, London.

M.A. Geography Semester-II Session 2016-17 onwards

16GEO22D5 SOIL GEOGRAPHY

Credit: 04 (3+1+0)
End Semester Exam : 80 marks
Internal Assessment : 20 marks
Total : 100 marks
Time : 3 hrs

Learning Objectives

The aim of this course is to apprise the students to various aspects of soil which being one of the important element of the Earth, supports the life system.

Learning Outcomes

Students will be familiarized and enhance their knowledge about the soils, its properties, development and degradation. They will understand the management and conservation of soil resource with reference to India along with its importance.

Unit - I

Soil Geography: meaning, nature, and scope; its relationship with Pedology. Soil forming factors: parent material, organic, climatic, topographic, and time; Soil components: inorganic materials, organic matter, soil air, and soil water.

Unit - II

Processes of soil formation and soil development: physical, biotic and chemical. Soil Profile and its development; Pedogenic Regimes: podsolization, laterization, calcification and salinization.

Unit - III

Physical properties of soils: morphology, texture, structure, water, air, temperature and other properties of soil; Chemical properties of soil and soil reaction; Genetic classification of soils; Taxonomic classification of soils: zonal, azonal and intra-zonal soils, their characteristics. Spatial distribution of Indian soils.

Unit - IV

Evaluation of land and soil: Parametric and non parametric systems, Land capability classification, Soil survey and Mapping, field study of soil profile and their characteristics; Soil erosion, degradation, and conservation with special reference to India.

Note :

The question paper will have five units. First four units of question paper will contain two questions from each unit of the syllabus. Candidate(s) are required to attempt one question from each unit. The unit five shall be compulsory and shall contain eight short answer type questions covering entire syllabus. All questions carry equal marks.

Recommended Readings:

1. Backman, H.O and Brady, N.C. (1960): The Nature and Properties of Soils, McMillan, New York.
2. Basile, R.M. (1971): A Geography of Soils, William C. Brown, Dubuque, Ia.
3. Bennet, Hugh H.: Soil Conservation, McGraw Hill, New York.
4. Bunting, B.T. (1973): The Geography of Soils, Hutchinson, London.
5. Clarke G.R. (1957): Study of the Soil in the Field, Oxford University Press, Oxford.

M.A. Geography Semester-III Session 2016-17 onwards
17GEO23D1: BIOGEOGRAPHY

Credit: 04 (3+1 +0)
End Semester Exam: 80 marks
Internal Assessment: 20 marks
Total : 100 marks
Time: 3 hrs

Learning Objectives

To introduce the student to the concept of biogeography, its components, interpretation and application; interaction between living organisms with climate and physical environment.

Learning Outcomes: Students will get familiarized with interface between biology, ecology and geography converging and forming our biosphere.

Unit-I

Biogeography - The Development, field, functions of Biogeography; Biosphere - definition, nature, scope and composition.

Unit-II

Biogeochemical cycles- the hydrological cycle, the carbon cycle, the oxygen cycle, the nitrogen cycle, the phosphorous cycle and the sediment cycle.

Unit-III

Ecosystem - Meaning, types, components and functioning of ecosystem; Evolution of living organism and factors influencing their distribution on the earth.

Unit-IV

Biomes- Meaning and types; Bio-geographical realms : Zoogeography and Zoogeographical realms.

Note: The question paper will have five units. First four units of question paper will contain two questions from each unit of the syllabus. Candidate(s) are required to attempt one question from each unit. The unit five shall be compulsory and shall contain eight short answer type questions covering entire syllabus. All questions carry equal marks.

Recommended Readings:

1. Aggarwal, S.K. 1992. **Fundamental of Ecology**. New Delhi: Ashish Pub. House.
2. Brown, J.H. and Lomolino, M.V. 1998. **Biogeography**. 2nd edn. Massachusetts: Sinauer Associates, Inc.
3. Cox, C.B., Moore, P.D., Biogeography. 2010. **An Ecological and Evolutionary Approach**. 5th ed., Cambridge: Blackwell.
4. Johnathan B. Losos, Robert E. Ricklefs eds. 2010. **The Theory of Island Biogeography Revisited**. New Jersey: Princeton University Press.

M.A. Geography Semester-III Session 2016-17 onwards

17GEO23D2: POLITICAL GEOGRAPHY

Credit : 04 (3+1+0)

End Semester Exam: 80 marks

Internal Assessment: 20 marks

Total: 100 marks

Time: 3 hrs.

Learning Objectives:

This course is designed to provide students (i) an understanding of the theoretical concepts of political geography; (ii) to have a familiarity with the most current topics in political geography

Learning Outcomes:

Students would be able to understand key concepts like state, nation, nationalism; understand the changing nature of modern state, challenges it is facing; the linkages of space and politics in terms of geopolitics and some of the issues of concern at the local level.

UNIT-I

Nature and scope of Political Geography; Perspectives: Political-Economy, World Systems, Place, and Globalisation.

UNIT-II

Concepts of Nation, State, Nation-State; Emergence and growth of territorial state; Globalization and the Crisis of the Territorial State; Forms of Governance: Unitary and Federal.

UNIT-III

Rise and Demise of German Geopolitics; Geopolitics in the post Cold War World—S.B. Cohen's model of Geo-strategic and Geo-political regions.

UNIT-IV

India as a regional power in South Asia; National and Regional political parties in India; Women as a marginalized section in Indian politics; Inter-state water disputes in India (special reference to SYL canal).

Note : The question paper will have five units. First four units of question paper will contain two questions from each unit of the syllabus. Candidate(s) are required to attempt one question from each unit. The unit five shall be compulsory and shall contain eight short answer type questions covering entire syllabus. All questions carry equal marks.

Recommended Readings:

1. Agnew, J.A. (1987), *Place and Politics*, Boston: Allen and Unwin.
2. Agnew, J.A. (1998), *Geopolitics*, London: Routledge.
3. Blacksell, Mark (2003), *Political Geography*, London: Routledge.
4. Flint, Collin and Taylor, P.J. (2011), *Political Geography*, New Delhi: Pearson.

MA Geography Semester-III Session 2016-17 onwards

17GEO23D3: SOCIAL GEOGRAPHY

Credit: 04 (3+1+0)
End Semester Exam: 80 marks
Internal Assessment: 20 marks
Total: 100 marks
Time: 3 hrs

Learning Objectives:

Social Geography is an important aspect to understand the development of society and different social groups in India.

Learning Outcomes:

The student will make better known with the theoretical, philosophical and conceptual base of this branch; understand and evaluate the concept of society in geography. It improves a student as a good human being in India.

Unit - I

Social Geography: Nature, meaning & Development of Social Geography; Philosophical bases of Social Geography : Positivism, Humanism and Feminism.

Unit - II

Towards a social geography of India; Concept of Social differentiation, socio cultural regions of India, Socio-Cultural Regions of India; Linguistic Elements in India. Caste System in India.

Unit - III

Social Well-being : Concepts of social well being, Human Development Index. Human Development in India. Factors of social change.

Unit - IV

Gender Issues of social Well Being: Female Literacy, family Planning, Women Health. Sex Ratio, Women Empowerment. Women Employment.

Note : The question paper will have five units. First four units of question paper will contain two questions from each unit of the syllabus. Candidate(s) are required to attempt one question from each unit. The unit five shall be compulsory and shall contain eight short answer type questions covering entire syllabus. All questions carry equal marks.

Recommended Readings :

1. Ahmad, Aijazuddin (1999) **Social Geography**, Rawat: New Delhi.
2. Dreze, Jean and Amartya Sen (1996) **Economic Development and Social Opportunity**, New Delhi :Oxford University, Press.
3. Gregory, D and Larry (eds) **Social Relations and Spatial Structures**, Oxford : Macmillan

MA Geography Semester-III Session 2016-17 onwards

17GEO23D4: HYDROLOGY

Credit: 04 (3+1+0)
End Semester Exam: 80 marks
Internal Assessment: 20 marks
Total: 100 marks
Time: 3 hrs

Learning Objectives:

Hydrology is the science that deals with all aspects of the water available on the earth. It includes study of occurrence of water, its properties, its distribution and circulation and also its effects on the living beings and their surroundings

Learning Outcomes :

At the end of the semester students will different physical aspects of water as a natural resource.

Unit – I

Introduction to hydrologic science: History of hydrology; Hydrology as a science; Basic hydrologic concepts: Physical quantities and laws; hydrologic systems;

Unit-II

Drainage Basin-Characteristics of drainage basin: size of the Basin, Shape of the basin, compactness ratio, form factor, type and arrangement of stream channels.

Unit – III

Precipitation-Process; Types, Forms. Mean Areal Depth of precipitation: Arithmetic average method, Thiessen polygon method and Isohyetal method; Intensity of rainfall.

Unit –IV

Evaporation-Actual evaporation, Potential evaporation; Estimation of actual and potential evaporation; Thornthwaite's book-keeping method of climatic water balance. Runoff-Factor affecting runoff.

Note : The question paper will have five units. First four units of question paper will contain two questions from each unit of the syllabus. Candidate(s) are required to attempt one question from each unit. The unit five shall be compulsory and shall contain eight short answer type questions covering entire syllabus. All questions carry equal marks.

Recommended Readings:

1. Davie, T.(2008) Fundamentals of Hydrology, Routledge, London.
2. Manning, J.C. (1997) Applied Principles of Hydrology, Prentice Hall, New Jersey.
3. Digman, L.S. (2002) Physical Hydrology, Prentice Hall, New Jersey.
4. Raghunath, H.M. (1990) Hydrology, Wiley Eastern Limited, New Delhi.
5. Garg, S.K. (1988) Hydrology and Water Resources Engineering, Khanna Publishers.

MA Geography Semester-III Session 2016-17 onwards

17GEO23D5: OCEANOGRAPHY

Credit: 04 (3+1+0)
End Semester Exam: 80 marks
Internal Assessment: 20 marks
Total: 100 marks
Time: 3 hrs.

Learning Objectives:

The course on oceanography will discuss the physiography of ocean floors and dynamics of ocean water. It will also provide an understanding about ocean-human interface including weather, climate, navigation, security and resource utilisation.

Learning Outcomes:

Student will be able to understand the dynamics of ocean physiography and water movement. It will help them to have an understanding of relevance of oceans as a resource in times to come.

Unit-I

Definition and scope of oceanography, major sea voyages, oceanography and other sciences; distribution pattern of land and sea, origin of ocean basins: Wegner's drift hypothesis, and sea floor spreading and Plate Tectonics.

Unit-II

Depth of ocean, ocean floor profile-continental shelf, slope, ridge and deeps, abyssal plains; submarine canyons; coral reefs-origin and distribution; ocean deposits; configuration of ocean floors of Indian Ocean and Atlantic Ocean.

Unit-III

Temperature of oceans; salinity in oceans; density of oceans; dynamics of ocean currents; currents of Atlantic, Pacific and Indian Ocean; tides and origin; Tsunami.

Unit-IV

Ocean currents and their impact on climate and economy; oceans as source of food, mineral and energy resources; sea-level changes; evidences, mechanism and impact; maritime laws.

Note: The question paper will have five units. First four units will contain two questions each. Candidate(s) are required to attempt one question from each unit. The unit five shall be compulsory and shall contain eight short answer type questions covering entire Syllabus. All questions carry equal marks.

Recommended Readings:

- Denny, M., 2008, *How the Ocean works: An introduction to Oceanography*, Princeton University Press, New Jersey.
- Garrison, T., 1995, *Essentials of Oceanography* Wardsworth Pub. Co., London.
- S. Kerhsaw., 2004, *Oceanography: An Earth Science Perspective*, Routledge, UK.
- Sharma, R.C. and V. Vatal., 1986, *Oceanography for Geographers*, Chatanaya Publishing, Allahabad.
- Shepart, F., 1969, *The Earth Beneath the Sea*, Athneum, Rev. ed., New York.
- Singh, Savindra., *Oceanography*, 2014, Pravalika Publications, Allahabad.
- Thurman, V. Harold., 1987, *Essentials of Oceanography*, A Bell & Howell Company, Columbus/Toronto/ Sydney.
- Von Arx, W.S., 1962, *An Introduction to Physical Oceanography*, Addison, Wesley, New York.

M.A. Geography Semester-IV Session 2016-17 onwards

17GEO24DA3: RURAL GEOGRAPHY

Credit: 04(03+01+0)
End Semester Exam: 80 marks
Internal Assessment: 20 marks
Total: 100 mark
Time: 3 hrs.

Learning Objectives:

The objective of the paper is to give to the students the basic ideas about the rural geography, infrastructure, building materials, house types, issues related to rural development, anti untouchability movements and women empowerment in rural India.

Learning Outcomes:

The present paper shall enhance the knowledge of students about the infrastructure, various types of building materials used, development issues, and untouchability and Dalits in rural India.

UNIT-I

Nature and scope of rural geography; **Infrastructure in rural India:** Irrigation, Electrification, and Roads.

Unit-II

Rural House Types : House Types based on Building Materials, Size and Shape as basis for classification, House Types based on Socio-Economic Status, Regional Patterns of Houses in India.

Unit-III

Issues of Rural Development in India: Land Reforms, Agricultural land-use, Distribution of Landholdings, Rural Poverty, Rural Unemployment.

Unit-IV

Untouchability and Dalits in Rural India: Some Theoretical Explanations, Anti Untouchability Movements: A Historical Overview; Scheduled Castes in Rural India, Patterns of Female Work Participation of Scheduled Castes, Women Empowerment in Rural India.

Note: The question will have five units. Each of the first four units of question paper will contain two questions from each unit of the syllabus. Candidate(s) are required to attempt one question from each unit. The unit five shall be compulsory and shall contain eight short answer type questions covering entire syllabus. All questions carry equal marks.

Recommended Readings:

1. Alam, S.M. et. al. (1982) Settlement System of India, Oxford and IBH Publication Co., New Delhi.
2. Chisholm, M. (1967) Rural Settlements and Land Use, John Wiley, New York.
3. Clout, H.D. (1977) Rural Settlements and Land Use, John Willy, New York.

Sem	Paper Code	Nomenclature	Hours Per Week (L+T+P)	Marks		Exam Hours	Credit (L+T+P)	
				Internal	End Semester Total			
4 th	17GEO24C1	Geographical Thought	04 (3+1 +0)	20	80	100	03	3+1 +0
	17GEO24C2	Research Methodology	04 (3+1 +0)	20	80	100	03	3+1 +0
	17GEO24DA1	Water Resource Management	04 (3+1 +0)	20	80	100	03	3+1 +0
	17GEO24DA2	Geography of Tourism	04 (3+1 +0)	20	80	100	03	3+1 +0
	17GEO24DA3	Rural Geography	04 (3+1 +0)	20	80	100	03	3+1 +0
	17GEO24DB1	Population Geography	04 (3+1 +0)	20	80	100	03	3+1 +0
	17GEO24DB2	Natural Hazards and Disaster Management	04 (3+1 +0)	20	80	100	03	3+1 +0
	17GEO24DB3	Agricultural Geography	04 (3+1 +0)	-	50	50	04	0+0+3
	17GEO24CL1	Practical : Aerial Photographs and Its Interpretation	06 per student	-	50	50	04	0+0+3
	17GEO24CL2	Practical: Satellite Images and Its Interpretation	06 per student	-	50	50	04	0+0+3
	Students will have to opt two soft core papers, one each from 17GEO24DA1, DA2, DA3 and 17GEO24DB1, DB2, DB3.				Total Credits=22		C=14 D=08	

3rd Semester

Sem	Paper Code	Nomenclature	Hrs/ week L+T+P	Marks		Exam nation (hrs)	Credits L+T+P	
				Inter nal Asst.	Semester Exam.			
3 rd	17POL23C11	Contemporary Political Thought & Theory-I	4+1+0	20	80	100	3 hrs	4+1+0=5
	17POL23C12	Comparative Politics & Political Analysis-I	4+1+0	20	80	100	3 hrs	4+1+0=5
GROUP A (Discipline Specific course)								
	17POL23DA1	International Law-I	4+0+0	20	80	100	3 hrs	4+0+0=4
	17POL23DA2	Ancient Indian Political Thought-I	4+0+0	20	80	100	3 hrs	4+0+0=4
	17POL23DA3	Political Sociology with Special reference to India-I	4+0+0	20	80	100	3 hrs	4+0+0=4
GROUP B (Discipline Specific course)								
	17POL23DB1	Modern Indian Political thought-I	4+0+0	20	80	100	3 hrs	4+0+0=4
	17POL23DB2	Theory & Practice of Diplomacy-I	4+0+0	20	80	100	3 hrs	4+0+0=4
	17POL23DB3	Indian Political Economy-I	4+0+0	20	80	100	3 hrs	4+0+0=4
GROUP C (Discipline Specific course)								
	17POL23DC1	Marxist & Neo Marxist Political Theory-I	4+0+0	20	80	100	3 hrs	4+0+0=4
	17POL23DC2	State Politics in India(with special reference to Haryana)-I	4+0+0	20	80	100	3 hrs	4+0+0=4
	17POL23DC3	Foreign Policy of India-I	4+0+0	20	80	100	3 hrs	4+0+0=4
		SOFT Open Elective						
	17POL02	Natural and Man made Disaster Management	2+1+0	20	80	100	3 hrs	2+1+0=3
Credits			C=10 ; D=12; SO=3;		Total Credits: 25			

Note: (i) Students have to choose 1 Discipline Specific course paper from each group (A, B, C). (ii) Open Elective (3 credits) to be chosen from the basket provided by the University.

4th									
17POL24C13	Contemporary Political Thought & Theory-II	4+1+0	20	80	100	3 hrs	4+1+0=5		
17POL24C14	Comparative Politics & Political Analysis-II	4+1+0	20	80	100	3 hrs	4+1+0=5		
GROUP A (Discipline Specific course)									
17POL24DA1	International Law-II	4+0+0	20	80	100	3 hrs	4+0+0=4		
17POL24DA2	Ancient Indian Political Thought-II	4+0+0	20	80	100	3 hrs	4+0+0=4		
17POL24DA3	Political Sociology with Special reference to India-II	4+0+0	20	80	100	3 hrs	4+0+0=4		
GROUP B (Discipline Specific course)									
17POL24DB1	Modern Indian Political thought-II	4+0+0	20	80	100	3 hrs	4+0+0=4		
17POL24DB2	Theory & Practice of Diplomacy-II	4+0+0	20	80	100	3 hrs	4+0+0=4		
17POL24DB3	Indian Political Economy-II	4+0+0	20	80	100	3 hrs	4+0+0=4		
GROUP C (Discipline Specific course)									
17POL24DC1	Marxist & Neo Marxist Political Theory-II	4+0+0	20	80	100	3 hrs	4+0+0=4		
17POL24DC2	State Politics in India (with special reference to Haryana)-II	4+0+0	20	80	100	3 hrs	4+0+0=4		
17POL24DC3	Foreign Policy of India-II	4+0+0	20	80	100	3 hrs	4+0+0=4		
Credits C=10; D=12; Total Credits: 22									

Note 7) Students have to choose 1 Discipline Specific course (paper) from each group (A,B,C)

Unit-I

Nature and Scope of Political Sociology: Structural Approaches to the Study of Political Sociology: Functional Approach, Marxist Approach, Weberian Approach.

Unit-II

Concept of Power, Theories of Elites: Pareto, Mosca, Michels. Elites and Democracy-Community Power Structure.

Unit-III

Legitimacy, Political Recruitment, Political Communication, Political Participation.

Unit-IV

Political Culture, Political Socialization, Concept of Authority, Bureaucracy.

Books Recommended :

Aron, Raymond

Main currents in Sociological Thoughts I & II

Translation by Richer Howard and Helen Wearnars (Harmondsworth

Penguin, 1965).

Closed and Open Social Stratification in India, Europe, Journal of Sociology, June 1967.

Betelle, A.

Boltmore, T.B.

Elites and Society (Harmondsworth Penguin 1971)

Duverger

The Idea of politics : The Use of Power in Society.

Lipset, S.M.

Politics and the Social Science (New Delhi Wiley Eastern, 1973)

Runciman, W.G.

Social Science and political Theory (ambidge, Cambridge University Press, 1967).

Rush, Michael and Philip, A. An Introduction to Political Sociology (Nelson Series)

Gandhi, Madan G. Modern Political Analysis, Oxford & IBH (Delhi, 1982).

Rathore, L.S.

Political Sociology (Meenakshi, Meerut, 1982).

Almond and Powell

Comparative Politics : A Developmental Approach (New Delhi, 1972).

Bailey, F.

Politics and Social Change (Berkeley University of California Press, 1974)

Bardix, R. and Lipset, S.M. (ed.)

Class, Status and Power : Social Stratification in Comparative Perspective, 2nd (London, Routledge and Kegan Paul, 1970)

Betelle A., Caste

Class and Power (Berkeley and Los Angeles : University of California, 1968)

Boltmore, T.B.

Classes in Modern Society (London, George Allen and Unwin, 1970).

Phillip, C.H. (ed.)

Society and Politics in India (London : London University Press, 1964)

Pye, Lucian

Aspects of Political Development (Boston, 1966)

Ranney, Austin

Governing of Men, The Modernity of Tradition, (Chicago, University of Chicago Press, 1967).

Rudolph, L.I. and S.H. Rudolph

Aspects of Political Development (Chicago, 1967)

GROUP-B

Paper-XIII Modern Indian Political Thought-I 17POL23DB1

Max. Marks : 100

Written examination Marks : 80

Internal Assessment : 20

Time : 3 Hours

Course Outcomes:

It will develop the followings among the students:

CO1. Awareness about the distinctive features of political theory and modern political thought of India

CO2. Sense to analyze the different

aspects of political theory and the contribution of the modern India thinkers to political theorizing and relative autonomy of Indian political thought

Unit-I
Diplomacy : Definition, Origin, Nature, Development, Objectives and Functions of Diplomacy, Decline of Diplomacy and its future.

Unit-II
Foreign Policy and Diplomacy : Evolution of Diplomatic Practice, Occidental and Oriental Traditions. Old and New Diplomacy, Secret and Open Diplomacy.

Unit-III
Structure of Diplomatic practice : Agents, Classification, Immunities and Privileges, Corps Diplomatique, principles of Precedence and Ranks, Credentials and full power.
The ideal diplomat, functions & Diplomat language of Diplomatic intercourse, forms and documents.

Unit-IV
The Organization of Ministry of External affairs in U.S.A. and India, Propaganda in Modern Diplomacy : Diplomacy during War and Peace.

Books Recommended :

- Rathore, L.S.
- Pearson Lester B.
- Krishnamurti, G.V.G.
- Nicolson, H.
- S. Kurt, London
- Mookerjee, Girija K.
- Pannikar, K.M.
- Margenthan, Hans, J.
- Mower, R.B.
- Bailey Sydney D.
- Nicholas, H.G.
- Sloessinger, John G.
- Gordenker, Leon
- Pedelford, Norman J and Goodrich, L.M. (Eds.)
- The Foundation of Diplomacy
- Diplomacy in the Nuclear Age
- Modern Diplomacy : Dispects and Dimensions.
- Diplomacy
- How Foreign Policy is made
- Diplomacy : Theory and History
- The Principles and Practice of Diplomacy.
- Politics among nations, Scientific
- European Rajnaya Ka Itihas
- The General Assembly of the United Nations :
- A study of procedure and practice
- The United Natos as a Political Institution
- United Nations and the Super Powers : China USA and USSR
- UN Secretary General and the Maintenance of Peace
- The United Nations in the Balance Accomplishments and Prospects.

GROUP-B

Paper-XV : Indian Political Economy-I 47POL23DB3

Max. Marks : 100
Written examination Marks : 80
Internal Assessment : 20
Time : 3 Hours

Course Outcomes:

It will make the students able to:

- CO1. Understand the basic concepts and debates about development and growth in India's political economy
- CO2. Develop awareness about India's economic policies since independence
- CO3. Develop insights into various policies that have shaped the Indian economy
- CO4. Engage on varied topics ranging from globalization, to growth models and to challenge in Indian agriculture
- CO5. Critically analyze the economic policies and identify the actors involved in economic policy formation

Note : The question paper will be divided into five Units carrying equal marks i.e. 16 Marks for each question. Each of first four units will contain two questions and the students shall be asked to attempt one question from each unit. Unit five shall contain eight short answer type questions without any internal choice and it shall be covering the entire syllabus. As such, all questions in unit five shall be compulsory.

Unit-I

Political Economy : Meaning and Scope.
Approaches to the Study of Political Economy.
Political Order and Economic Change.

Unit-II

The Political Economy of Under-development, Theories of Imperialism, Dependency, Centre-Periphery and World Capitalist System.

Unit-III

Analysis of Indian Economy during Colonial, Period.
Debate on India's Economic Development-Gandhian, Liberal and Marxist views, Planning and Mixed Economy.

Unit-
IV India's Agricultural Policy,
India's Industrial Policy,
Green Revolution.

Books Recommended :

Samir Amin Unequal Development : An Essay on the Social Formation of Peripheral Capitalism, Haddocks: Harvester Press, 1976.

Accumulators on a World Scale

John S. Augustine Strategies for Third World Development, New Delhi : Sage Publications, 1989.
Hartmut Elsonhans Development and Underdevelopment : The History, Economics and Politics of North-South Relations, New Delhi : Sage Publications, 1991.

Power in Kerala (The Kerala Academy of Political Science, 1965).
 Roy, Ramaswamy. The Uncertain Verdict: A Study of Election in Four Indian States (Delhi: Orient Longmans, 1973).
 Weiner Myron (ed.) State Politics in India (Princeton: Princeton University Press, 1983).

GROUP-C
Paper-XV : Foreign Policy of India-17POL23DC3

Max. Marks : 100
Written examination Marks : 80
Internal Assessment : 20
Time : 3 Hours

Course outcomes:

It will make students competent to:

- CO1. Understand the foundation aspects of foreign policy of India
- CO2. Study India's foreign policy, its determinants, objectives and environment in the post independence period
- CO3. Study the mechanism and dynamics of foreign policy making and implementation
- CO4. Discuss India's growing interaction with global and regional players and multilateral organizations and forums
- CO5. Analyze India's regional approach in the contemporary environment

Note : The question paper will be divided into five Units carrying equal marks i.e. 16 Marks for each question. Each of first four units will contain two questions and the students shall be asked to attempt one question from each unit. Unit five shall contain eight short answer type questions without any internal choice and it shall be covering the entire syllabus. As such, all questions in unit five shall be compulsory.

Unit-I

Meaning of Foreign Policy : History, Principles, Objectives and Determinants of India's Foreign Policy.

Unit-II

- (i) Formative Phase : (a) Legacies of the freedom struggle, (b) Domestic background, (c) Nehru's perspective, Critical analysis, (d) International Situation.
- (ii) Process of Foreign Policy making in India.

Unit-III

Non-alignment meaning, Features Bases and Role of India in the Non-alignment movement : Indian and third world.

Unit-IV

India's Security Environment and India's Foreign Policy : (a) Domestic environment (b)-Regional environment (c) International environment, (d) India and United Nation (UN).

Books Recommended :

A.Appadurai The Domestic roots of India's Foreign

be asked to attempt one question from each unit. Unit five shall contain eight short answer type questions without any internal choice and it shall be covering the entire syllabus. As such, all questions in unit five shall be compulsory. Internal choice and it shall be covering the entire syllabus. As such, all questions in unit five shall be compulsory. All questions in unit five shall be compulsory.

Unit-I

The Mode of Production Debate, Agrarian Reforms and Social Change Regional Imbalances and Disparities.

Unit-II

Character and Nature of Contemporary Indian State. Movements of the underprivileged and Marginal Sections.

Unit-III

Major Strands of Indian Politics : Class Politics, Minority Politics, Labour Politics, agrarian Politics, Politics of Foreign Aid.

Unit-IV

Liberalization and Globalization in the Indian Context. Environment Movements, Major issues of contemporary

Political Economy.

Books Recommended :

Samir Amin Unequal Development : An Essay on the Social Formation of Peripheral Capitalism, Haddocks : Harvester Press, 1976.

John S. Augustine Accumulators on a World Scale. Strategiesforthird World Development, New Delhi : Sage Publications, 1989.

Hartmut Elsonhans Development and Underdevelopment : The History, Economics and Politics of North-South Relations, New Delhi : Sage Publications, 1991.

Andre Gunder Frank Capitalism & Underdevelop in Latin America, Penguin, 1971 Globalization of Capital, 1997.

Michael Chossodovsky Globalization of poverty, New Delhi : Other Indian Press, 1997.

Wolterstein

Michael Chossodovsky

Frauda, Muarcus
Political Development and Political Decay in Bengal (Calcutta, Mukhopadya, 1971).
West Bengal and Federalizing Process in India (Princeton : Princeton University Press, a 1968).
Minority Politics in Punjab (Princeton : Princeton University Press, 1966).
State Politics in India (Meerut : Meerakshi, Princeton University Press, 1966).
An how Communists came to Power in Kerala (The Kerala Academy of political Science, 1965).
The Uncertain Verdict : A study of Election in Four Indian States (Delhi : Orient Longmans, 1973).
State Politics in India (Princeton : Princeton University Press, 1983).

Weiner Myron (ed.)
Group-C
Paper-XX : Foreign Policy of India-II 17POL24DC3
Max. Marks : 100
Written examination Marks : 80
Internal Assessment : 20
Time : 3 Hours

Course outcomes:
It will make students able to:

CO1. Understand the changed political and economic environment after the end of cold war

CO2. Discuss about the economic aspects of India's foreign policy and it's relations and contribution in various economic organizations

CO3. Evaluate India's foreign policy and challenges for it in the post-cold war era

CO4. Discuss about the changed environment in the India Ocean region and its impact on India's foreign policy

CO5. Discuss the new emerging issues in international environment i.e. human rights, cross-border terrorism, environment issues etc.

Max. Marks : 80
Time : 3 hours

Note : The question paper will be divided into five Units carrying equal marks i.e. 16 Marks for each question. Each of first four units will contain two questions and the students shall be asked to attempt one question from each unit. Unit five shall contain eight short answer type questions without any internal choice and it shall be covering the entire syllabus. As such, all questions in unit five shall be compulsory. Internal choice and it shall be covering the entire syllabus. As such, all questions in unit five shall be compulsory.

Unit-I
Economic factors in India's Foreign Policy, Politics of Foreign aid and Trade, Role of Multinational Institutions and Corporates.
Unit-II
India's Economic Policy, Impact of Globalization, Major Challenges to Foreign Policy, Defence and Nuclear policy, Human rights and cross-border terrorism, assessment of foreign policy.

Unit-III

Changing International Environment, its impact on Indian Foreign Policy, Indian Foreign Policy achievements and Challenges, Indian Ocean Regional Co-operation and Zone of Peace.

Unit-IV

India-Pakistan Relation : Policy and performance, India-China Relations, Policy and Performance, Indian Policy towards the USA and Russia.

Books Recommended :

- A. Appadorai
The Domestic roots of India's Foreign Policy.
- J. Bandyopadhyaya
The Making of India's Foreign Policy : Determinants, Institutions, process and Personalities.
- Surjit Mansing
India's Search of Power : Indira Gandhi's Foreign Policy.
- A.P. Rana
The Imperatives of non-alignment : A conceptual Study of India's Foreign Policy Strategy in the Nehru's period, India's Foreign Policy towards 2002 A.D., New Delhi, 1993.
- R.S. Yadav, ed.
Studies in India Foreign Policy, Armlisar, 1980.
- Surendra Chopra, ed.
Nuclear Policy of India, New Delhi, 1980.
- K.K. Pathak
India's Foreign Policy, 1984.
- V.P. Dutt
UN Policy in South Asia, New Delhi, 1983.
- Leela Yadav
India's Foreign Policy and Relations.
- M. Appadorai and M.S. Rajan

A) Open Elective Courses

Students of all PG programmes under CBCS (w.e.f. 2016-17) are required to study one open elective course in each of the 2nd and 3rd Semesters for 2-Years Programmes and in each of the 4th and 5th semesters for 3-Years Programmes. They may choose any one of the following courses (excluding the courses offered by the departments of their own subjects, if not stated otherwise).

Sr. No.	Nomenclature of the course	Course Code	Offered by the Department	Offered for Semester
1	Introduction to Bioinformatics	16BINO1	Bioinformatics	2 nd Sem
2	Computer Aided Drug Design	16BINO2	Bioinformatics	3 rd Sem
3	Principles and Applications of Agriculture Biotechnology-I	16CBTO1	Biotechnology	2 nd Sem
4	Principles and Applications of Agriculture Biotechnology-II	16CBTO2	Biotechnology	3 rd Sem
5	Principles and Applications of Biotechnology-I	16CBTO3	Biotechnology	2 nd Sem
6	Principles and Applications of Biotechnology-II	16CBTO4	Biotechnology	3 rd Sem
7	Basic Biochemistry	16BCHO1	Bio-Chemistry	2 nd Sem
8	Human Health & Nutritional Disorders	16BCHO2	Bio-Chemistry	3 rd Sem
9	Plant Resource Utilization	16BOTO1	Botany	2 nd / 3 rd Sem
10	Fundamental of Income Tax	16COMO1	Commerce	2 nd / 3 rd Sem
11	Cyber Forensic & Security	16CSAO1	Computer Science	2 nd / 3 rd Sem
12	National Security of India	16DSSO1	Defence & Strategic Studies	2 nd / 3 rd Sem
13	Basics of Economics	16ECOO1	Economics	2 nd Sem
14	Principles of Economics	16ECOO2	Economics	3 rd Sem
15	Fundamental Aspects of Education	16EDUO1	Education	2 nd Sem
16	Trends and Concerns of Teacher Education	16EDUO2	Education	3 rd Sem
17	Environmental Issues	16ENVO1	Environmental Science	2 nd Sem
18	Disaster Management	16ENVO2	Environmental Science	3 rd Sem
19	Food Adulteration	16FTEO1	Food Technology	2 nd / 3 rd Sem
20	Genetics & Society	16GENO1	Genetics	2 nd Sem
21	Forensic Science	16GENO2	Genetics	3 rd Sem
22	Basics of Geoinformatics	16GEOO1	Geography	2 nd / 3 rd Sem
23	Geography of India Systematic and Regional	16GEOO2	Geography	2 nd Sem
24	BhartiyaSahitya	16HNDO1	Hindi	2 nd / 3 rd Sem
25	Nationalism in India	16HISO1	History	2 nd Sem

26	Survey of Sources of Indian History	16HISO2	History	3 rd Sem
27	Fundamentals of Management	16IMSO1	IMSAR	2 nd Sem
28	Fundamentals of Marketing	16IMSO2	IMSAR	3 rd Sem
29	Media & Society	16JRM01	Journalism	2 nd / 3 rd Sem
30	Family Law	16LAWO1	Law	2 nd Sem
31	Constitutional Law	16LAWO2	Law	3 rd Sem
32	Academic Integrity & Plagiarism	16LISO1	Library & Information Science	2 nd Sem
33	Information Sources and Literacy	16LISO2	Library & Information Science	3 rd Sem
34	Mathematical Techniques and Applications	16MATO1	Mathematics	2 nd Sem
35	Parametric & Non-Parametric Tests	16MATO2	Mathematics	2 nd Sem
36	Statistical Tools using SPSS	16MATO3	Mathematics	3 rd Sem
37	MATLAB	16MATO4	Mathematics	3 rd Sem
38	Principles of Medical Biotechnology I	16MBTO1	Medical Biotechnology	2 nd Sem
39	Principles of Medical Biotechnology II	16MBTO2	Medical Biotechnology	3 rd Sem
40	Microbial World-Diversity and Applications	16MCBO1	Microbiology	2 nd Sem
41	Microbial Technology for Entrepreneurship	16MCBO2	Microbiology	3 rd Sem
42	Sources of Energy-I	16PHYO1	Physics	2 nd Sem
43	Sources of Energy-II	16PHYO2	Physics	3 rd Sem
44	Administrative Literacy	16PUBO1	Public Administration	2 nd Sem
45	Environment Protection Administration	16PUBO2	Public Administration	3 rd Sem
46	Disaster Management - I	16POLO1	Political Science	2 nd Sem
47	Disaster Management - II	16POLO2	Political Science	3 rd Sem
48	Ancient Indian Culture & Philosophy	16SKTO1	Sanskrit	2 nd / 3 rd Sem
49	Understanding Sociology	16SOCO1	Sociology	2 nd Sem
50	Indian Society	16SOCO2	Sociology	3 rd Sem
51	Quantitative Techniques	16STAO1	Statistics	2 nd Sem
52	Sampling & Estimation Techniques	16STAO2	Statistics	2 nd Sem
53	Optimization Techniques	16STAO3	Statistics	3 rd Sem
54	Computer Science Principles	16CSEO1	UIET (Comp. Sc. & Eng.)	2 nd Sem
55	Software Engineering Practices	16CSEO2	UIET (Comp. Sc. & Eng.)	2 nd Sem
56	Business skills for Biotechnologists	16MBTO1	UIET (Biotech)	2 nd Sem
57	Operations Research	16MMEO1	UIET (Mech. Eng.)	2 nd Sem

DEPARTMENT OF BOTANY

**Open Elective Paper: Plant Resource Utilization
Semester-II, III: Paper Code: 16BOTO1**

**MM. Th 80+1A 20
Time: 3 hrs.**

Note: The examiner is required to set even questions in all. Question No. 1 will be compulsory and short answer type covering the entire syllabus. The remaining six questions will be set with two questions from each unit. The candidate will be required to attempt Question 1 and four more selecting at-least one from each unit.

UNIT-I

Origin of Agriculture, World Centres of Primary diversity of domesticated plants: Plant Introductions and Secondary Centres.
Botany, Cultivation, Harvesting and uses of Wheat and Rice.
Botany, Cultivation and uses of following fruits and vegetables: Mango, Apple, Banana, Potato, Alliums, Cabbage, Spinach and Tomato

UNIT-II

General Account of the Spices: Ginger, Turmeric, Cinnamon, Clove,
Beverage Plants: Source and general account of Tea and Coffee.
Legumes: Origin, Botany, Cultivation and uses of Pigeon pea, Chick pea, Cluster bean
Medicinal Plants: Plants as sources of drugs, parts used and uses.
Fibres: Types of fibres - Soft fibres, Hard fibres, Surface fibres, Brush fibres and Braiding fibres.

UNIT-III

Gums: Important commercial gums and their uses.
Tannins and Dyes: Sources and their uses.
Vegetable Oils and Fats: Distinction between fatty and essential oils. Drying (Soyabean and linseed), nondrying (Groundnut and Mustard oil) and Semi drying (cottonseed and Sunflower oil) oils and their uses.
Wood and its Uses: Soft woods and hard woods, wood as fuel, construction material
Genetic Resources and their conservation.

SUGGESTED READINGS

1. Anonymous. *National Gene Bank: Indian Heritage on Plant Genetic resources* (Booklet). National Bureau of Plant Genetic Resource, New Delhi. 1997.
2. Cobby, L.S. and W.M. Steels. *An Introduction to the Botany of Tropical Crop*

OPEN ELECTIVE OFFERED BY THE DEPARTMENT
OF
Defence and Strategic Studies

SEMESTER-II/III
PAPER -01
PAPER CODE-16DSSO1
NATIONAL SECURITY OF INDIA

Maximum Marks: 100

Credits: 3:0:0

Theory Marks: 80

Time Allowed: 3 Hours

Internal Assessment Marks: 20

INSTRUCTION FOR THE PAPER SETTERS

The Paper-Setters/Examiners will have to set Eight Question, selecting two from each out of Unit-I,II, III and IV. And one question consisting of Ten short answer type questions, without it any internal choice covering the entire syllabus be set in Unit V of the question Paper.

The Question Paper will consist of five units: I, II, III, IV and V. Unit-V will be compulsory. The first Four Units will contain two questions each from the respective syllabus and each question will carry 15 marks. Unit V of the question and will contain Ten short answer type question, with any internal choice and will cover the entire syllabus uniformly. Each short answer type question will carry Two marks. The Question Paper should be set strictly according to the syllabus. Separate marks for each question. Should be indicated in the question papers.

UNIT-I

1. National Security Concepts:-
 - a) Definition of National Security, National Defence and National Interest.
 - b) Elements of National Security.

UNIT-II

2. National Security Structure:-
 - a) National Security Council and Cabinet Committee on Security affairs.
 - b) Armed Forces, Para-Military Forces.

UNIT-III

3. Threats to Indian Security:-
 - a) Internal – Threats
 - b) External – Threats

UNIT-IV

4. India and Its Neighbours:-
 - a) India's Geo-Strategic Location
 - b) India's Relations with its neighbours

Books Recommended

1. Howard, Michael, "Theory and Practice of War"
2. Howard, Michael, "The Causes of War"
3. Bernard Black, L, "War and Its Causes"
4. Wright, Quincy, "A Study of War"
5. Mao-Tse-Tung, "Guerilla Warfare"
6. Legueur Walter, "Guerilla Warfare"
7. Robert E. Osgood, "Limited War – The Challenges to American Strategy".
8. Rees David, "Korea, the limited War"
9. Kitson Frank, "Low Intensity Operations, Subversion Insurgency, Peace keeping"
10. Osanka F.M., "Modern Guerilla Warfare"
11. Nasution, Abdul H., "Fundamentals of Guerilla Warfare"
12. Brodie, Bernard, "Strategy in the Missile Age"
13. Sampooran Singh, "India and the Nuclear Bomb"
14. Tirpathi, K.S., "Evolution of Nuclear Strategy"

Semester –III
Open Elective

16ENVO2: Disaster Management
MM. Th 80+IA 20

Time : 3 Hours.

Note: 1. Seven questions will be set in all.

2. Question No. 1 will be objective covering the entire syllabus & compulsory. The remaining six questions will be set with two questions from each unit. The candidate will be required to attempt five in total, Question I and four by selecting at least one from each unit.

UNIT- I

Disaster- Causes and phases of disaster, Rapid onset and slow onset disasters. Nature and responses to geo-hazards, trends in climatology, meteorology and hydrology. Seismic activities. Changes in Coastal zone, coastal erosion, beach protection, Coastal erosion due to natural and manmade structures.

UNIT- II

Floods and Cyclones: causes of flooding, Hazards associated with flooding, Flood forecasting. Flood management, Integrated Flood Management and Information System (IFMIS), Flood control. Water related hazards- Structure and nature of tropical cyclone, Tsunamis – causes and physical characteristics, mitigation of risks.

UNIT- III

Earthquakes: Causes and characteristics of ground-motion, earthquake scales, magnitude and intensity, earthquake hazards and risks, Volcanic land forms, eruptions, early warning from satellites, risk mitigation and training, Landslides.

Mitigation efforts: UN draft resolution on Strengthening of Coordination of Humanitarian Emergency Assistance, International Decade for Natural Disaster Reduction (IDNDR), Policy for disaster reduction, problems of financing and insurance.

Reference Books:

1. Bolt, B.A. Earthquakes , W. H. Freeman and Company, New York. 1988
2. Carter, N.W. Disaster Management: A Disaster Manager's Hand Book, Asian Development Bank, Manila. 1992
3. Gautam Ashutosh. Earthquake: A Natural Disaster, Ashok Publishing House, New Delhi. 1994
4. Sahni, P.and Malagola M. (Eds.).Disaster Risk Reduction in South Asia, Prentice-Hall of India, New Delhi. 2003.
5. Sharma, V.K. (Ed.). Disaster Management, IIPA, New Delhi. 1995.
6. Singh T. Disaster management Approaches and Strategies, Akansha Publishing House, New Delhi. 2006
7. Sinha, D. K. Towards Basics of Natural Disaster Reduction, Research Book Centre, New Delhi. 2006
8. Smith, K. Environmental Health, Assessing Risk and Reduction Disaster, 3rd Edition, Routledge, London. 2001 21

Food Adulteration

PAPER CODE: 16FTEO1

There will be seven questions in all. The first question will be compulsory and short answer type covering the entire syllabus. The remaining six questions will be set with two questions from each unit. The candidate will be required to attempt question 1 and four more selecting atleast one from each unit.

MM. Th 80+IA 20

Time: 3h

Unit I

Basic food groups, Function of foods and its general composition.

Food Quality & Safety, various aspects of food quality & safety, challenges of food safety.

Food adulteration and contamination, common food contaminants & adulterants

Unit II

Food Adulteration: Nature of adulterants, methods of evaluation of food adulterants and toxic constituents in foods, common food adulterants & their detection on various foods like

- a) Milk and Milk products
- b) Oils and fats
- c) Spice and condiments
- d) Wheat and other flours
- e) Sugar and Preserve
- f) Fruit and Vegetable products
- g) Beverages Alcoholic and Non-Alcoholic

Unit III

Food Laws and Regulation: Prevention of Food Adulteration Act 1954, Food Safety and Standards Act (2006), Food Safety and Standards Authority of India (FSSAI), BIS, FPO, APEDA.

Recommended Books:

1. Gould, W.A and Gould, R.W. (1998). Total Quality Assurance for the Food Industries, CTI Publications Inc. Baltimore.
2. Furia, T.E. Ed. 1980. Regulatory Status of Direct Food Additives. CRC Press, Florida.
3. Rekha S. Singhal , Pushpa R. Kulkarni, Dananesh V. Rege, (1997). Hand Book of Indices of food Quality and Authenticity, wood head Publishing Ltd.
4. Siva Kiran, R.R. (2012). Manual for Detection of Common Food Adulterants, First Edition, IAPEN.
5. Battershal, J.P. (2013). Food Adulteration & its detection, General Books LLC.
6. Prevention of Food Adulteration Act, 4th Edition, Ashoka Law House, 2002

M.Sc. Physics Semester II
Open Elective – I Sources of
Energy – I

PAPER CODE: 16PHY01

Theory Marks: 80
Internal Assessment: 20
Time: 3 hours

Unit I

Introduction

Limitation of conventional energy sources, need and growth of alternative energy sources, basic scheme and application of direct energy conservation.

Solar Cells:

Solar energy: Introduction, The characteristics of the sun, Definitions related to solar radiations, solar radiation geometry, Estimation of daily solar radiation. Theory of solar cells. Solar cell materials, solar drying, solar furnaces, Solar cooking, solar green house technology, solar thermal power generation, solar cell array.

Unit II

Solar Thermal Energy:

Solar radiations, flat plate collectors and their materials, applications and performance, focusing of collectors and their materials, applications and performance; solar thermal power plants, thermal energy storage for solar heating and cooling, limitations.

Unit III

Geothermal Energy:

Resources of geothermal energy, thermodynamics of geo-thermal energy conversion-electrical conversion, non-electrical conversion, environmental consideration, estimates of geothermal power, nature of geothermal fields, advantages & disadvantages of geothermal energy forms, applications of geothermal energy. Geothermal power plant.

Fuel Cells:

Principle, working of various types of fuel cells, performance and limitations.

Unit IV

Wind Energy:

Wind power and its sources: Principle of working of Wind Energy, performance and limitations of energy conversion systems. Site selection, criteria, momentum theory, wind characteristics.

Text / References Books:

1. John Twideu and Tony Weir, "Renewal Energy Resources" BSP Publications, 2006
2. M.V.R. Koteswara Rao, "Energy Resources: Conventional & Non-Conventional" BSP Publications, 2006.
3. D.S. Chauhan, "Non-Conventional Energy Resources" New Age International.
4. C.S. Solanki, "Renewal Energy Technologies: A Practical Guide for Beginners" PHI Learning.
5. Peter Auer, "Advances in energy system and Technology" Vol I & II Edited by Academic Press.
6. G.D. Rai, "Non-conventional Energy sources" Khanna Publishers
7. Raja A.K., "Introduction to Non-Conventional Energy Resources" Scitech Publications.
Fahrenbruch and Bube, "Fundamentals of Solar cells. Photovoltaic Solar Energy"

M.Sc. Physics Semester III
Open Elective – II
Sources of Energy –II

PAPER CODE: 16PHYO2

Theory Marks: 80
Internal Assessment: 20
Time: 3 hours

Unit I

Bio-mass:

Introduction of biogas, Availability of bio-mass and its conversion theory, classification of biogas plants, principle & working of floating drum plant & fixed dome type plant- advantages & disadvantages. Biogas from plant waste, community biogas plants, utilization of biogas.

Unit II

Ocean Thermal Energy Availability, theory and working principle, performance and limitations.

Wave and Tidal Wave:

Principle, working, performance and limitations.

Unit III

Petroleum and Coal energy

Petroleum, origin, composition, production, extraction, octane number, kerosene, LPG, lubricants natural gas, physical properties and uses of coal, generis of coal, molecular structure, determination of fixed carbon content, coal for generation of electricity, zero emission power plants, coal reserves and mining.

Unit IV

Nuclear Energy

Nucleus and its constituents, charge mass, isotopes, isobars, mass defect, binding energy and nuclear stability, radiation and nuclear reactions.

Nuclear fission, chain reaction, U^{235} , U^{238} , controlled nuclear fission and nuclear reactors, fast breeder reactor, nuclear fusion, condition for nuclear fusion reaction, Hydrogen bomb, Nuclear bomb

Text / References Books:

1. John Twidell and Tony Weir, "Renewal Energy Resources" BSP Publications, 2006
2. M.V.R. Koteswara Rao, "Energy Resources: Conventional & Non-Conventional" BSP Publications, 2006.
3. D.S. Chauhan, "Non-Conventional Energy Resources" New Age International.
4. C.S. Solanki, "Renewal Energy Technologies: A Practical Guide for Beginners" PHI Learning.
5. Peter Auer, "Advances in energy system and Technology" Vol I & II Edited by Academic Press.
6. Raja A.K., "Introduction to Non-Conventional Energy Resources" Scitech Publications.
7. G.D. Rai, "Non-conventional Energy sources" Khanna Publishers

SYLLABUS FOR OPEN ELECTIVE (SANSKRIT)

Ancient Indian Culture and Philosophy

(प्राचीन भारतीय संस्कृति एवं दर्शन)

16SKTO1

2nd /3rd Semester

Maximum Marks: 100
Credits: 3:0:0
Time Allowed: 3 Hours

Theory Marks: 80
Internal Assessment Marks: 20

Unit I :	General Study of Ramayana and Mahabharata	-	20
घटक एक :	(रामायण व महाभारत का सामान्य अध्ययन)		
	(i) General Introduction (सामान्य परिचय)		
	(ii) Recensions (संस्करण)		
	(iii) Society (समाज)		
	(iv) Family Relations (पारिवारिक सम्बन्ध)		
	(v) Education (शिक्षा)		
	(vi) Politics (राजनीति)		
	(vii) Economy (अर्थव्यवस्था)		
	(viii) Situation of Women (स्त्रियों की दशा)		
Unit II :	Vidurniti	-	20
घटक दो :	(विदुरनीति)		
Unit III :	Śrīmadbhagavad Gītā – Chapters I to III	-	20
घटक तीन	श्रीमद्भगवद्गीता : अध्याय – एक से तीन		
Unit IV :	Yoga Philosophy	-	20
घटक चार	योग दर्शन		
	(i) General Introduction to Yoga – Citta, Vrtti, Isvara		
	योग दर्शन का सामान्य परिचय – चित्त, वृत्ति, ईश्वर		
	(ii) Yoga for Social Health – Maitri, Karunā, Muditā, Upekshā, Yama		
	योग एवं सामाजिक स्वास्थ्य – मैत्री, करुणा, मुदिता, उपेक्षा, यम		

- (iii) Yoga for physical health – Niyama, Āsana, Prānāyāma
योग एवं शारीरिक स्वास्थ्य – नियम, आसन, प्राणायाम
- (iv) Yoga for mental health – Pratyāhāra, dhāranā, dhyāna, samādhi.
योग एवं मानसिक स्वास्थ्य – प्रत्याहार, धारणा, ध्यान, समाधि

Guidelines : Students will be required to attempt five questions of 16 marks each.

Question no. 1 will comprise eight short answer type questions from all Units.
Guidelines for other four questions are as under.

दिशा निर्देश –

Unit I :	One critical question out of two Or two short notes out of four.	16
Unit II :	One critical question out of two Or two short notes out of four.	16
Unit III :	One critical question out of two Or two short notes out of four.	16
Unit IV :	One critical question out of two Or two short notes out of four.	16

Recommended Books (अनुशंसित ग्रन्थ) :

1. रामायण – गीता प्रेस गोरखपुर
2. महाभारत – गीता प्रेस, गोरखपुर

M.D.U., ROHTAK
Session 2020-21

A) Foundation Elective Courses

Students of all PG programmes under CBCS (w.e.f. 2018-19) are required to study one foundation elective course in 2nd semester for 2 years Programmes and in 4th Semester for 3 years Programmes. They may choose any one of the following courses (excluding the courses offered by the departments of their own subjects).

Sr. No.	Nomenclature of the course	Course Code	Offered by the Department of
1	Basics of Accounting	16COMF1	Commerce
2	Basics of E-Commerce	16COMF2	Commerce
3	Elements of Banking	16COMF3	Commerce
4	Computer Fundamentals	16CSAF1	Computer Science & Application
5	Appreciation of Short Stories	16ENGF1	English & Foreign Languages
6	Appreciation of Poetry & Prose	16ENGF2	English & Foreign Languages
7	Appreciation of Fiction	16ENGF3	English & Foreign Languages
8	Appreciation of Drama	16ENGF4	English & Foreign Languages
9	Moral Education	16GENF1	Genetics
10	Geography in Everyday Life	16GEOF1	Geography
11	Hindi language and Communication Skill	16HNDF1	Hindi
12	Food of India	18MHMCTF1	IHTM
13	Food & Dining Services	18MHMCTF2	IHTM
14	Entrepreneurship Development	16IMSF1	IMSAR
15	Communication and Soft Skills	16IMSF2	IMSAR
16	Introduction of Mass Media	17JRM01	Journalism
17	Media law	16LAWF1	Law
18	Appreciation of Indian Music	16MUSF1	Music
19	Psychology for Everyday Living	16PSYF1	Psychology
20	Electronics Engineering	16'ECE F1	UIET (Electronics & Communication)

DEPARTMENT OF COMPUTER SCIENCE & APPLICATIONS
FOUNDATION COURSE
(16CSAF1)
COMPUTER FUNDAMENTALS

Total Marks: 50
External Marks: 40
Internal Marks: 10

Time: 3Hrs.

Note: Examiner will be required to set NINE questions in all. Question Number 1 will consist of total 8 parts (short-answer type questions) covering the entire syllabus and will carry 16 marks. In addition to the compulsory question there will be four units i.e. Unit-I to Unit-IV. Examiner will set two questions from each Unit of the syllabus and each question will carry 16 marks. Student will be required to attempt FIVE questions in all. Question Number 1 will be compulsory. In addition to compulsory question, student will have to attempt four more questions selecting one question from each Unit.

Unit-I

Historical Evolution of Computing Systems: Overview of Data Processing, History of Computing, Computer Generations; Characteristics of Computer, Anatomy of Computer, Classification of Computers.

Number Systems and Codes: Introduction, Number Systems and its types, and inter-conversion of Number Systems; ASCII and EBCDIC codes.

Input and Output Devices: Concept of Input/Output, Types of Input Devices; Output Devices – Printers, Plotters and Monitors.

Unit-II

Memory and Storage Devices: Characteristics of memory systems, memory hierarchy, Types of Memory – RAM, ROM, etc.; Magnetic Disks, Magnetic Tapes, Optical Disks; Concept of Cache Memory and Virtual Memory.

Software and Operating System Concepts: Introduction, Software Types, Language translators, System Utility Software, Application Software; Operating System – Characteristics, its functions, and its classification; User Interfaces – CUI and GUIs. DOS and Windows operating systems.

Unit-III

Working with Office Tools:

Using Word Processing: Opening and Closing of documents, Text creation and Manipulation, Moving Around in a Document, Formatting of text, Table handling, Spell check, language setting and thesaurus, Handling Multiple Documents, Printing of word document.

Using Spreadsheet tool: Basics of Spreadsheet; Manipulation of cells, Formulas and Functions, Editing of Spread Sheet, Page setups, header and footer, printing of Spread Sheet.

Using Slide Presentation Tool: Basics of powerpoint, Preparation and Presentation of Slides, Slide Show, Formatting and Clip Arts, Taking printouts of presentation / handouts.

Unit-IV

Communication and Networks: Data Communication, Transmission Modes, Basics of Computer networks, types of computer network - LAN, MAN, WAN; Network Topologies and Applications of Computer Networks.

Internet Basics: Concept of Internet, Application of Internet, WWW, Web-sites and URLs, Search Engine, Using Electronic mails, Instant Messaging, Web Browsing software, Surfing the Internet.

Social Concern: Positive and Negative Impacts of Computer Technology, Computer Crimes, Computer Virus: Definition, Types of viruses, Characteristics of viruses, anti-virus software.

Computer Applications: Data Analysis, Sports, Research, Education, Business, Medicines & Health Care, Weather Forecasting, Military.

Suggested Readings:

1. Nasib Singh Gill: Handbook of Computer Fundamentals, Khanna Books Publishing Co.(P) Ltd., New Delhi, 2016.
2. P.K Sinha; Computer Fundamentals, BPB Publications.
3. Nasib Singh Gill: Computing Fundamentals and Programming in C, Khanna Books Publishing Co.(P) Ltd., New Delhi.
4. V. Rajaraman: Fundamentals of Computers, PHI
5. Microsoft Office – Complete Reference – BPB Publication
6. Norton Peter: Introduction to Computer, McGraw-Hill.
7. Leon, Alexis & Leon, Mathews: Introduction to Computers, Leon Tech World.
8. C.S. French: Data Processing and Information Technology, BPB Publications.

Naveed ✓

Foundation course run by Department of Genetics.
(Foundation course)
MORAL EDUCATION

Paper Code: 16GENFI

Total Marks: 50
External Marks: 40
Internal Marks: 10

Time: 2.00 Hours

Instructions

There will be a total of five questions. Question No. 1 will be compulsory and shall contain eight to ten short answer type questions without any internal choice and it shall cover the entire syllabus. The remaining four questions will include two questions from each unit. The students will be required to attempt one question from each unit. The students will attempt three questions in all.

UNIT I

Guiding principles for life

Ethics

- a. Guidelines set by society
- b. Changes according time and place

Morals

- c. Guidelines given by the conscience
- d. Always constant

Values in the workplace

- a. Responsibility for each other
- b. Obedience to the organization
- c. Dignity of labour
- d. Excellence in action

UNIT II

Concept of Trusteeship

- a. Everything belongs to society
- b. Man is only a caretaker
- c. Our responsibility to ensure welfare of all

Importance of service

- a. Responsibility of an individual
- b. Man is only a caretaker
- c. Our responsibility to ensure welfare of all

SCHEME OF EXAMINATION FOR B.Sc. (BOTANY) SEMESTER SYSTEM
w.e.f. Session 2016-17
Scheme of B.Sc. 1st Year

Semester I					
Sr. No.	Paper code	Nomenclature	Marks+IA	Periods / week	Exam. Duration
1.	BOT.1.1	Diversity of Microbes	40+10	4	3 hrs.
2.	BOT 1.2	Cell Biology	40+10	4	3 hrs.
3.	P-101	Practical (1.1& 1.2)	50	8	3hrs
Semester II					
4.	BOT 2.1	Diversity of Archegoniates	40+10	4	3 hrs.
5.	BOT 2.2	Genetics	40+10	4	3 hrs.
6.	P-102	Practical (2.1& 2.2)	50	8	3 hrs
Total Semester I & II			300		

Scheme of B.Sc. II (2017-18)

Semester III					
Sr. No.	Paper code	Nomenclature	Marks+IA	Periods / week	Exam. Duration
1.	BOT 3.1	Biology and Diversity of Seed Plants-I	40+10	4	3 hrs.
2.	BOT 3.2	Plant Anatomy	40+10	4	3 hrs.
3.	P-201	Practical (3.1& 3.2)	50	8	3 hrs
Semester IV					
4.	BOT 4.1	Biology and Diversity of Seed Plants II	40+10	4	3 hrs.
5.	BOT 4.2	Plant Embryology	40+10	4	3 hrs.
6.	P-202	Practical (4.1& 4.2)	50	8	3hrs
Total Semester III & IV			300		

Scheme of B.Sc. III (2018-19)

Semester V					
Sr. No.	Paper code	Nomenclature	Marks+IA	Periods / week	Exam. Duration
1.	BOT 5.1	Plant Physiology	40+10	4	3 hrs.
2.	BOT 5.2	Ecology	40+10	4	3 hrs.
3.	P-301	Practical (5.1& 5.2)	50	8	3hrs
Semester VI					
4.	BOT 6.1	Biochemistry & Plant Biotechnology	40+10	4	3 hrs.
5.	BOT 6.2	Economic Botany	40+10	4	3 hrs.
6.	P-302	Practical (6.1& 6.2)	50	8	3hrs
Total Semester V & VI			300		
Grand Total Semester I – VI			900		

Note: -

- There will be an internal assessment of 20%, in each theory paper.
- 1 Period =45 minutes
- Practical examination will be held conducted at the end of each semester.

**B. Sc. III (Botany) Syllabus
SEMESTER-V**

PAPER CODE: BOT. 5.2

Paper - II Ecology

Internal
Assessment-10
Max. Marks – 40
Time – 3 hrs.

Note: Five questions to be attempted in all, selecting two questions from each unit.
Question No. 1 will be compulsory (short answer type). Nine questions are to be set spread over the entire syllabus. All questions carry equal marks.

UNIT-I

Introduction to Ecology: Definition; scope and importance; levels of organization .
Environment: Introduction; environmental factors- climatic (water, humidity, wind, light, temperature), edaphic (soil profile, physico-chemical properties), topographic and biotic factors (species interaction).

UNIT-II

Adaptations of plants to water stress and salinity (morphological and anatomical features of hydrophytes, xerophytes and halophytes).
Population ecology: Basic concept; characteristics; biotic potential, growth curves; ecotypes and ecads.

UNIT-III

Community ecology: Concepts; characteristics (qualitative and quantitative analytical and synthetic); methods of analysis; ecological succession.
Ecosystem: Structure (components) and functions (trophic levels, food chains, food webs, ecological pyramids and energy flow)
Biogeochemical cycles: Carbon, nitrogen, phosphorus and hydrological cycle.

UNIT-IV

Phyto-geography: Phyto- geographical regions of India; vegetation types of India (forests). Environmental pollution: Sources, types and control of air and water pollution.
Global change: Greenhouse effect and greenhouse gases; impacts of global warming; carbon trading; Ozone layer depletion; Biomagnification

Suggested Readings:

1. Odum, E.P. 1983: Basic Ecology, Saunders, Philadelphia.
2. Kormondy, E.J. 1996: Concepts of Ecology, Prantice-Hall of India Pvt. Ltd., New Delhi.
3. Mackenzie, A. et al. 1999: Instant Notes in Ecology, Viva Books Pvt. Ltd., New Delhi.

SEMESTER-VI
PAPER CODE: BOT. 6.2
Paper – II Economic Botany

Internal Assessment-10

Max. Marks – 40

Time – 3 hrs.

Note: Five questions to be attempted in all, selecting two questions from each unit.

Question No. 1 will be compulsory (short answer type). Nine questions are to be set spread over the entire syllabus. All questions carry equal marks.

UNIT-I

Vavilov's centres of origin of crop plants, Origin, distribution, botanical description, brief idea of cultivation and economic uses of the following:

Food plants - cereals (rice, wheat and maize), pulses (gram, arhar and pea), vegetables (potato, tomato and onion).

UNIT-II

Origin, distribution, botanical description, brief idea of cultivation and economic uses of the following:

Fibers- cotton, jute and flax.

Oils- groundnut, mustard, sunflower and coconut.

UNIT-III

Morphological description, brief idea of cultivation and economic uses of the following:

Spices- coriander, ferula, ginger, turmeric, cloves.

Medicinal plants- *Cinchona*, *Rauwolfia*, *Atropa*, *Opium*, *Cannabis*, *Azadirachta*, *Withania*.

UNIT-IV

Botanical description, processing and uses of:

Beverages- tea and coffee;

Rubber - *Hevea*;

Sugar- sugarcane

General account and sources of timber; energy plantations and bio-fuels.

M.Sc. 3rd semester

Paper No.	Code	Nomenclature	Contact hours (L+T+P)	Credits	Max. Marks
Paper-XVI (a)	17CHE23GA1	Inorganic Special-I	4+0+0 = 04	04	80+20
Paper-XVI(b)	17CHE23GB1	Physical Special-I	4+0+0 = 04	04	80+20
Paper-XVI (c)	17CHE23GC1	Organic Special-I	4+0+0 = 04	04	80+20
Paper-XVII (a)	17CHE23GA2	Inorganic Special-II	4+0+0 = 04	04	80+20
Paper-XVII(b)	17CHE23GB2	Physical Special-II	4+0+0 = 04	04	80+20
Paper-XVII (c)	17CHE23GC2	Organic Special-II	4+0+0 = 04	04	80+20
Paper-XVIII (a)	17CHE23GA3	Inorganic Special-III	4+0+0 = 04	04	80+20
Paper-XVIII(b)	17CHE23GB3	Physical Special-III	4+0+0 = 04	04	80+20
Paper-XVIII (c)	17CHE23GC3	Organic Special-III	4+0+0 = 04	04	80+20
Paper-XIX (a)	17CHE23GAL1	Inorganic Special Practical-I	0+0+8 = 08	04	50
Paper-XIX (b)	17CHE23GBL1	Physical Special Practical-I	0+0+8 = 08	04	50
Paper-XIX (c)	17CHE23GCL1	Organic Special Practical-I	0+0+8 = 08	04	50
Paper-XX (a)	17CHE23GAL2	Inorganic Special Practical-II	0+0+8 = 08	04	50
Paper-XX (b)	17CHE23GBL2	Physical Special Practical-II	0+0+8 = 08	04	50
Paper-XX (c)	17CHE23GCL2	Organic Special Practical-II	0+0+8 = 08	04	50
Paper-XXI (a)	17CHE23GAL3	Inorganic Special Practical-III	0+0+8 = 08	04	50
Paper-XXI (b)	17CHE23GBL3	Physical Special Practical-III	0+0+8 = 08	04	50
Paper-XXI (c)	17CHE23GCL3	Organic Special Practical-III	0+0+8 = 08	04	50
Paper-XXII	17CHE2301	Environmental Chemistry-II OR To be chosen from the pool of Open Electives provided by the University	3+0+0 = 03	03	80+20

M.Sc.(3rd Semester)

Paper:- XXII ; 17CHE2301 Environmental Chemistry-II 3 Hrs./Week
Credits: 03
Max Marks: 80
Time: 03 Hrs

➤ **Course outcomes**

- CO1** Demonstrate knowledge of water quality parameters and standards.
- CO2** Recognize different types of toxic substances for soil pollution and industrial pollution.
- CO3** Describe causes and effects of environmental pollution by energy industry and discuss some mitigation strategies
- CO4** Explain the importance and principles of green chemistry.

Note:- Examiner will set 10 questions and the candidates will be required to attempt 05 questions in all. Out of 10 questions one question will be compulsory containing 06 short answer type questions covering the entire syllabus. Further examiner will set 03 questions from each section and the candidates will be required to attempt atleast one question from each section. All questions will carry equal marks.

Unit-I

Water Quality parameters and standards: Analytical methods for measuring DO, BOD, COD, fluoride, oils and grease and metals (As, Cd, Hg, Pb, Zn Cu, Cr), Biochemical effects of As, Cd, Hg, Pb, Cr, CN and pesticides.

Lithosphere: soil composition, micro and macro nutrients, soil pollution-fertilizers, pesticides.

Unit-II

Industrial Pollution:- Cement, Sugar, distillery, drug, paper and pulp, thermal power plants, nuclear power plants, metallurgy, Polymers, drugs etc. Radionuclide analysis. Disposal of wastes and their management.

Unit-III

Green Chemistry:- Importance, Principles of Green Chemistry, Thrust Areas, Applications of

non-conventional techniques in organic synthesis: Ultrasonic, microwave and grinding, solid state synthesis and synthesis under solvent free conditions, Use of Ionic Liquids.

Persistent Organic Pollutants: Aldrin, chlordane, Dieldrin,, Dioxins, DDT, Endrin, Furans, Heptachlor, Hexachlorobenzene, Mirex, Polychlorinated biphenyls, Toxaphene.

Books Recommended

1. Environmental Chemistry – A.K. De
2. Environmental Chemistry- Manaham.
3. Environmental Pollution Analysis- Khopkar.
4. Environmental Chemistry- V. Subra maniam.
5. Chemistry of Atmosphere-Murray J. Mc Ewan and Leon F. Philips.
6. Atmospheric Chemistry – J. Heichlen.

Session 2022-23 (SEMESTER III)

Course No	Course Code	Nomenclature of Course	L-T-P	Credit/Hrs.	Max Marks	Theory	Internal Assessment	Duration of Exam
XI (Core Course-XI)	22ENG23C1	Basics of Research Methodology	4-1-0	5	100	80	20	3 hrs
XII (Core Course-XII)	22ENG23C2	American Literature	4-1-0	5	100	80	20	3 hrs
XIII (Core Course - XIII)	22ENG23C3	Indian Writings in English and Translations in English - II (Post-Independence)	4-1-0	5	100	80	20	3 hrs
XIV (Core Course - XIV)	22ENG23C4	Literary Theory and Criticism - II	4-1-0	5	100	80	20	3 hrs
XV (DSE Course - I)		Opt any one:						
(Opt. i)	22ENG23D1	Film Studies - I	4-1-0	5	100	80	20	3 hrs
(Opt. ii)	22ENG23D2	Cultural Studies - I	4-1-0	5	100	80	20	3 hrs
(Opt. iii)	22ENG23D3	Gender Studies - I	4-1-0	5	100	80	20	3 hrs
(Opt. iv)	22ENG23D4	Post Colonial Studies - I	4-1-0	5	100	80	20	3 hrs
(Opt. v)	22ENG23D5	Research Project (For Foreign Students Only)		5	100	60 (Project Report)	40 (Viva-Voce)	
Open Elective	22ENG23O2	From the common pool of Open Electives	3-0-0	3				

Total Credits 28

As recommended by PGBOS held on 30.06.2022 &
Faculty of Humanities and Arts on 18.07.2022

Session 2022-23 (SEMESTER IV)

Course No	Course Code	Nomenclature of Course	L-T-P	Credit/Hrs.	Max Marks	Theory	Internal Assessment	Duration of Exam
XVI(Core Course-XV)	22ENG24C1	Indian Writings in English - III (English Translations of Regional Writings)	4-1-0	5	100	80	20	3 hrs
XVII(Core Course-XVI)	22ENG24C2	Literary Theory and Criticism - III	4-1-0	5	100	80	20	3 hrs
XVIII (D.S.E Course-II) (opt i)	22ENG24D6	<u>Opt any one:</u> Diasporic Literature	4-1-0	5	100	80	20	3 hrs
(opt ii)	22ENG24D7	Canadian Literature	4-1-0	5	100	80	20	3 hrs
(opt iii)	22ENG24D8	African Literature	4-1-0	5	100	80	20	3 hrs
XIX (D.S.E. Course-III) (opt. i)	22ENG24D9	<u>Opt any one:</u> Film Studies - II	4-1-0	5	100	80	20	3 hrs
(opt. ii)	22ENG24D10	Cultural Studies – II	4-1-0	5	100	80	20	3 hrs
(opt. iii)	22ENG24D11	Gender Studies – II	4-1-0	5	100	80	20	3 hrs
(opt. iv)	22ENG24D12	Post Colonial Studies - II	4-1-0	5	100	80	20	3hrs
XX (D.S.E. Course-IV) (opt. i)	22ENG24D13	<u>Opt any one:</u> South Asian Literature	4-1-0	5	100	80	20	3 hrs
(opt. ii)	22ENG24D14	Travel Literature	4-1-0	5	100	80	20	3 hrs

Total Credits 25

Grand Total Credits 25 + 30+ 28 + 25 = 108

As recommended by PGBOS held on 30.06.2022 &
Faculty of Humanities and Arts on 18.07.2022

FACULTY OF HUMANITIES AND ARTS
DEPARTMENT OF ENGLISH AND FOREIGN LANGUAGES
M.A. ENGLISH (2 YEAR C.B.C.S)
SCHEME OF EXAMINATION
M.A. ENGLISH C.B.C.S.
(SEMESTER I)
(w.e.f. Session 2022-23)

Course No	Course Code	Nomenclature of Course	L-T-P	Cred it/ Hr s.	Max Marks	Theory	Internal Assessment	Duration of Exam
I (Core Course-I)	22ENG21C1	Chaucer to the Puritan Age	4-1-0	5	100	80	20	3 hrs
II (Core Course-II)	22ENG21C2	The Augustans to the Pre-Romantics	4-1-0	5	100	80	20	3 hrs
III (Core Course-III)	22ENG21C3	The Romantic Age	4-1-0	5	100	80	20	3 hrs
IV (Core Course-IV) (opt. i)	22ENG21C4	Language – I (Phonetics and E LT)	4-1-0	5	100	80	20	3 hrs
(opt. ii)	22ENG21C5	European Drama (Only for visually challenged)	4-1-0	5	100	80	20	3 hrs
V (Core Course-V)	22ENG21C6	Indian Literary Theory and Criticism	4-1-0	5	100	80	20	3 hrs

Total Credits 25

As recommended by PGBOS held on 30.06.2022 &
Faculty of Humanities and Arts on 18.07.2022

(SEMESTER I)
(w. e. f. Session 2022-23)
Indian Literary Theory and Criticism

Course Code: 22ENG21C6
 Course V (Core Course V)
 Nomenclature of the Course: Indian Literary Theory and Criticism
 Credits: 5
 Maximum Marks: 100
 Theory: 80
 Internal Assessment: 20
 Time: 03 Hrs.

Learning Outcomes:

- C.S.O.1. Contextualizes the socio-cultural background of criticism /literary writings
- C.S.O.2. Puts in perspective the various literary movements, styles and concepts manifested through different critical writings
- C.S.O.3. Inculcates an appreciation for Indian classical theory and its application through the prescribed texts
- C.S.O.4. Situates theoretical reference point for present day Indian writing in English

Unit I

Kuntaka: "Language of Poetry and Metaphor"
(Indian Literary Criticism: Theory and Interpretation, by G. N. Devy)

Ananda Coomaraswamy: "The Dance of Shiva"
(The Dance of Shiva Delhi: Munshi Ram Manohar Lal Publishers.)

Unit II

Dhananjaya: "Definitions and Descriptions in Drama"
(Indian Literary Criticism: Theory and Interpretation, by G. N. Devy)

Rabindranath Tagore: "World Literature"
 "The True Nature of Literature"
(Rabindranath Tagore: Selected Writings on Literature and Language, edited by Sisir Kumar Das and Sukanta Chaudhuri)

Unit III

G.N. Devy: "Tribal Verse" in *Painted Words*
 S. H. Vatsyayan 'Agyeya': "Memory and Country"
(The Writer as Critic: Essays in Literature, History & Culture by Jasbir Jain)

Unit IV

Jotirao Govindrao Phule: "Preface to *Ghulamgiri*"

*As recommended by PGBOS held on 30.06.2022 &
 Faculty of Humanities and Arts on 18.07.2022

(*The Writer as Critic: Essays in Literature, History & Culture* by Jasbir Jain)
 Sharan Kumar Limbale: "Dalit Literature and Aesthetics"
 (*Towards an Aesthetics of Dalit Literature*)

Unit V

Sitakant Mahapatra: "Indian Culture: Quest for Perspective – Dualities, Resolutions and Transcendence" (from *The Writer as Critic: Essays in Literature, History & Culture* by Jasbir Jain)

U. R. Ananthmurthy: "The Literary Situation in India: Search for an Identity"

Unit VI

Note: No question will be set from Unit VI. This unit is aimed at enriching the readings of the students and a comprehensive understanding of the Course. Students will submit their assignments for internal evaluation from this Unit only.

Patañjali , Bhatta Nayaka, Dandin, Rajsekhar, Nitya Chaitanya Yati, Mukkutiparambilchuthan, Ved Vyasa, Bharatmuni , Tholkappiyar, Akka Mahadevi, Krishna Chandra Bhattacharya, *Chhandahsutra* , The *Sapatasataka (The Seven Hundred)* of Hala, *Vākyapadiya*, Apabhramśa

Instructions to the Paper setter and the Students

There will be ten essay type questions set on Units I to V. Two questions will be set from each Unit. Students will be required to attempt one question from each Unit. All questions carry equal marks. The examiner shall mention Units.

Suggested Readings:

- Ahmed, Aijaz. "Languages of Class, Ideologies of Migration ". *In Theory; Classes, Nations, Literatures*.
- Banerji, Debashish. Ed. *Rabindranath Tagore in the 21st Century: Theoretical Renewals*.
- Bhattacharya, Krishna Chandra. "The Concept of Rasa"
- Bhushan, Nalini and Jay L. Garfield. Eds. *Indian Philosophy in English: From Renaissance to Independence*.
- Chakraborty, Arindam. "Refining the Repulsive: Toward an Indian Aesthetics of the Ugly and the Disgusting" *The Bloomsbury Research Handbook of Indian Aesthetics and the Philosophy of Art*.
- De, Aparajita et al. Eds. *Subaltern Vision: A Study in Postcolonial Indian English Text*.
- Devy, G. N. Ed. *Indian Literary Criticism: Theory and Interpretation*.
- "After Amnesia", *After Amnesia: Tradition and Change in Indian Literary Criticism*.
- Gauri, Viswanathan. *Masks of Conquest: Literary Study and British Rule in India*.
- Hunt, Sarah Beth. *Hindi Dalit Literature and the Politics of Representation*.
- Ilajah, Kancha, "Towards the Dalitization of Nation". *Wages of Freedom: Fifty Years of Indian Nation-State*. Ed. Partha Chatterjee.
- Krupat, Arnold. "Indian Autobiography: Origins, Type, and Function",

As recommended by PGBOS held on 30.06.2022 &
 Faculty of Humanities and Arts on 18.07.2022

**M. A. ENGLISH
(SEMESTER III)
M. A. English (CBCS) w. e. f. Session 2022-23
American Literature**

Course Code: 22ENG23C2
Course: XI (Core Course - XI)
Nomenclature of the Course: American Literature
Credits: 5
Maximum Marks: 100
Theory: 80
Internal Assessment: 20
Time: 3 Hrs.

Learning Outcomes:

- C.S.O.1. Makes the students understand the socio-political factors that shaped the American literary scene
- C.S.O.2. Helps the students explore literature in relation to the historical and cultural context
- C.S.O.3. Develops an awareness of the evolving American experience.

Unit I**Non-Detailed Readings:**

- (i) John Winthrop, Fennimore Cooper, Ralph Waldo Emerson, Edgar Allan Poe, Fredrick Douglass, Herman Melville, Henry Brown, Mark Twain, Henry James, David Belasco, Benjamin Franklin, Abraham Lincoln
- (ii) *Uncle Tom's Cabin, The Scarlet Letter, Walden, The Red Badge of Courage, The Great Gatsby, Their Eyes Were Watching God, The Hairy Ape, Ariel, On The Road, Portnoy's Complaint, Who's Afraid of Virginia Woolf, Beloved*

Unit II

Walt Whitman: "Song of Myself" (Sections 1, 5, 6, 10, 20, 21, 32, 49, 50 52)

Emily Dickinson: "Hope is the Thing with Feathers"
"I Felt a Funeral in My Brain"
"I Heard a Fly Buzz when I Died"
"Apparently with No Surprise"
"Because I could not stop for Death"

Unit III

Lorraine Hansberry: *A Raisin in the Sun*

Unit IV

Henry D. Thoreau: "Civil Disobedience"
F. Scott Fitzgerald: "Echoes of the Jazz Age"

Unit V

John Steinbeck: *Of Mice and Men*

William Faulkner: "A Rose for Emily"
 "Dry September"
 "That Evening Sun"

Unit VI

Note: No question will be set from Unit VI. This unit is aimed at enriching the readings of the students and a comprehensive understanding of the Course. Students will submit their assignments for internal evaluation from this Unit only.

W.E.B Dubois, Robert Frost, Gertrude Stein, Wallace Stevens, Ernest Hemingway, Langston Hughes, Tennessee Williams, Arthur Miller, Allen Ginsberg, Adrienne Rich, Kate Millet, Sam Sheppard, Jamaica Kincaid, Colonization, European heritage, Puritanism, Transcendentalism, Realism and Naturalism in American Literature, Jazz Age, Roaring 20s, Lost Generation, Harlem Renaissance, Modernism, New Critics, Beat Generation, American Dream

Instructions to the Paper setter and the Students

There will be nine questions. Students will be required to attempt five questions in all. All questions carry equal marks. In question 1, students will be required to write two short notes in about 150 words each from part (i) and (ii) of Unit I, out of the given four from each part. In questions 2 to 9, two questions will be set from each Unit from Unit II to V and the students will be required to attempt one from each Unit. The examiner shall mention Units.

Suggested Reading:

- Bercovitch, Sacvan, ed. *The Cambridge History of American Literature*.
 Bordman, Gerald Martin and Thomas S. Hischack. *The Oxford Companion to American Theatre*.
 3rded.
 Elliot, Emory, ed. *The Columbia History of the American Novel*.
 Gray, Richard J. *A Brief History of American Literature*.
 Harris, Charles B. *Contemporary American Novelists of the Absurd*.
 Horton, Rod William and Herbert W. Edwards. *Backgrounds of American Literary Thought*.
 Kolin, Philip C, ed. *American Playwrights since 1945: A Guide to Scholarship, Criticism, and Performance*.
 Leary, Lewis Gaston. *Articles on American Literature 1900-1950*,
 Malkoff, Karl. *Crowell's Handbook of Contemporary American Poetry*.
 Matthiessen, F. O. *American Renaissance: Art and Expression in the Age of Emerson and Whitman*.
 Ruland, Richard and Malcolm Bradbury. *From Puritanism to Postmodernism: A History of American Literature*.
 Spiller, Robert E. et al., eds. *Literary History of the United States*.
 White, Barbara Anne. *American Women Writers: An Annotated Bibliography of Criticism*.

Course Coordinators – (Prof. Jaibir S. Hooda & Prof. Gulab)

As recommended by PGBOS held on 30.06.2022 &
 Faculty of Humanities and Arts on 18.07.2022

**M. A. ENGLISH
(SEMESTER III)
M. A. English (CBCS) w. e. f. Session 2022-23
Gender Studies – I**

Course Code: 22ENG23D3
Course- XV (DSE Course - I) (opt. iii)
Nomenclature of the Course: Gender Studies – I
Credits: 5
Maximum Marks: 100
Theory: 80
Internal Assessment: 20
Time: 03 Hrs.

Learning Outcomes:

- C.S.O.1 Students are acquainted with origin, purpose and the journey of feminism through the emerging narratives
- C.S.O.2 Develops critical skills to understand gender relations in historical and contemporary time
- C.S.O.3 Students get acquainted with key concepts and various nuances of gender debates
- C.S.O.4 Familiarizes students with major writers belonging to different gender and analyzing their works, along with strategies employed by them in their writing practices
- C.S.O.5 These newly emergent fields help them undertake further advance research in respective fields

UNIT I**Non-Detailed Readings:**

- (i) Meerabai, Savitribai Phule, Tarabai Shinde, Pandita Ramabai, Rashid Jahan, Ismat Chughtai, Mary Wollstonecraft, Clara Zetkin, Virginia Woolf, Simone de Beauvoir,
- (ii) *The Lifted Veil* by George Eliot, *Transcendental Wild Oats* by Louisa May Alcott, *Ethan Frome* by Edith Wharton, *The Awakening* by Kate Chopin, *Ai Ladki* by Krishna Sobti, *Letters from the Palace* by Kumudini
- Short stories: "A Love Child by Dorris Lessing", "The Garden Party" by Katherine Mansfield, "Salt" by Mahasweta Devi, "Nafisa" by Krishna Sobti, "Thanuppu" (cold) by Kamala Das, "Sweat" by Zora Neale Hurston,

Unit-II

Chimamanda Ngozi Adichie: *We Should All be Feminists*

Unit-III

A. Revathi: *Truth About Me: A Hijra Life Story*

UNIT IV

As recommended by PGBOS held on 30.06.2022 &
Faculty of Humanities and Arts on 18.07.2022

Vinodini: *Daaham (Thirst)*. (from Rani, S. (Trans.) & Mukherjee, T. (Ed.), *Staging Resistance: Plays by Women in Translation* .

Unit-V

Imtiaz Dharker

"Purdah I"

"Grace"

"Minority"

"Prayer"

(from *Purdah and Other Poems* by Imtiaz Dharker
Delhi: Oxford University Press, 1989).

Unit VI

Note: No question will be set from Unit VI. This unit is aimed at enriching the readings of the students and a comprehensive understanding of the Course. Students will submit their assignments for internal evaluation from this Unit only.

Kamla Bhasin: *Understanding Gender*(Kali for Women (2003)

Kamini Roy "In Silence" and "As the Days Pass" (Translation: Kamini Roy's Bengali Poetry, the two poems translated by Srirupa, in *Setu, Bilingual Monthly Journal*)

Jasbir Jain. "From Experience to Aesthetics: The Dialectics of Language and Representation." (pp. 361-369.)

Doris Lessing's *No Witchcraft for Sale*

Alice Walker's poem "Before I Leave the Stage"

Alice Jaggar's *Feminism and Humanism*,

Toril Moi's "Who is Afraid of Virginia Woolf" (*Sexual Textual Politics* pp-1-8),

Simone de Beauvoir: *The Second Sex* ('Introduction'),

Dorothy Parker's "Good Souls"

Tharu and Lalitha, eds. *Women Writing in India vol.1 600 BC to the Early Twentieth Century-*

"Progressive Writer's Association and The Indian People's Theater Association"pp.79-83,

Vijay Tendulkar: *Silence: The Court is in Session*

Shashi Deshpande's "Independence Day"

Instructions to the Paper setter and the Students

There will be nine questions. Students will be required to attempt five questions in all. All questions carry equal marks. In question 1, students will be required to write two short notes in about 150 words each from part (i) and (ii) of Unit I, out of the given four from each part. In questions 2 to 9, two questions will be set from each Unit from Unit II to V and the students will be required to attempt one from each Unit. The examiner shall mention Units.

Suggested Readings

Chaturvedi, Rashmi. "Unveiling Womanhood: Dharker's "Purdah".

de Souza, Eunice, Ed. *Nine Indian Women Poets*.

Dharker, Imtiaz, *Purdah*.

Jain, Jasbir, Ed. *Women's Writing-Text and Context*.

Lahiri-Dutt, K. *Women of the rural communities in the Bengal delta*.

Lahiri-Dutt, K. (Ed.), *Fluid bonds: Views on gender and water*

As recommended by PGBOS held on 30.06.2022 &
Faculty of Humanities and Arts on 18.07.2022

**M. A. ENGLISH
(SEMESTER III)
M. A. English (CBCS) w. e. f. Session 2022-23
Postcolonial Studies-I**

Course Code: 22ENG23D4
XV (DSE Course – I) (opt. iv)
Nomenclature of the Course: Postcolonial Studies- I
Credits: 5
Maximum Marks: 100
Theory: 80
Internal Assessment: 20
Time: 3 Hrs.

Learning Outcomes:

- C.S.O.1 Familiarizes the students with theoretical concepts related to the literatures of the post-colonial world-African, Asian, Caribbean and Canadian etc.- which have remained outside discourse making for a long time
- C.S.O.2 Foregrounds issues such as history, class, race, gender, nation, culture, marginality, diasporic consciousness etc. emphasizing the emergent nature of literary productions from decolonized communities
- C.S.O.3 Introduces students to some major issues and problems common to such literatures
- C.S.O.4 Enables to interrogate the Western canon

Unit-1

Non-Detailed Readings:

- (i) Huda Sharaawi, Mahasweta Devi, Tony Morrison, Nawal El Saadawi, AudreLorde, Mario Vargas Llosa, BapsiSidhwa, J.M. Coetzee, Alice Walker, M.G. Vassanji
- (ii) Frantz Fanon: *On National Culture*, T.B. Macaulay: *Indian Education: Minute of the 2nd of February, 1835*, Notion of representation in Edward Said's *Orientalism*, Antonio Gramsci: Notion of the Subaltern, Ngugi wa Thiong'O: *Decolonising the Mind: the Politics of Language in African Literature*, Gauri Vishwanathan: *Introduction to Masks of Conquest*, Gayatri Chakravarty Spivak: *The Postcolonial Critic: Interviews, Strategies, Dialogues*, Stuart Hall: *Cultural Identity and Diaspora*, Aijaz Ahmad: *In Theory: Classes, Nations, Literatures*, Chandra Talpade Mohanty: *Under Western Eyes*, Said from *Culture and Imperialism*, pp xi-xxxi; 1-14 & 61-72, Homi K Bhabha: *The Location of Culture*

Unit-II

Jean Rhys: *Wild Sargasso Sea*

Unit-III

As recommended by PGBOS held on 30.06.2022 &
Faculty of Humanities and Arts on 18.07.2022

Wole Soyinka:	<i>The Swamp Dwellers</i>
Unit-IV	
David Malouf:	<i>Remembering Babylon</i>
Unit-V	
Pablo Neruda:	"If You Forget Me", "Your Laughter", "Don't Go Far Off", "Book of Questions"
Octavio Paz:	"The Street," "Between Going of Staying," "As One Listens to the Rain," "No More Clichés"

Unit-VI

Note: No question will be set from Unit VI. This unit is aimed at enriching the readings of the students and a comprehensive understanding of the Course. Students will submit their assignments for internal evaluation from this Unit only.

Doris Lessing: *The Golden Notebook*, SalmanRushdie: *Midnight's Children*, Frantz Fanon: *The Wretched of the Earth*, Frantz Fanon: *Black Skin, White Masks*, Leela Gandhi: *PostcolonialTheory*, Gayatri Chakravarty Spivak: *The Postcolonial Critic*, Stuart Hall : *Cultural Identity and Diaspora*, Earl Lovelace: *The Dragon Can't Fly*, Ben Okri: *The Famished Road*, Chinua Achebe: *Things Fall Apart*, Mulk Raj Anand : *Untouchable*,. Homi K Bhabha: *The Location of Culture*, Ngũgĩwa Thĩng'Ō: *The Language in African Literature*, Bill Ashcroft: *The Postcolonial Studies Reader*. Bill Ashcroft: *Key Concepts in Postcolonial Studies*, Ania Loomba: *Colonialism/ Postcolonialism*, Margaret Atwood: *Surfacing*, Kim Scott: *The Deadman Dance*, Michal Ondaatje: *Anil's Ghost*, Margaret Atwood: *The Blind Assassin*, Jhumpa Lahiri: *The Namesake*, Nadine Gordimer: *Burger's Daughter*, Nadine Gordimer: *July's People*, Tayeb Salih: *Season of Migration to the North*, John McLeod: *Beginning Postcolonialism*, Bill Ashcroft: *The Empire Writes Back*

Instructions to the Paper setter and the Students

There will be nine questions. Students will be required to attempt five questions in all. All questions carry equal marks. In question 1, students will be required to write two short notes in about 150 words each from part (i) and (ii) of Unit I, out of the given four from each part. In questions 2 to 9, two questions will be set from each Unit from Unit II to V and the students will be required to attempt one from each Unit. The examiner shall mention Units.

Suggested Readings:

Anderson, Benedict. *Imagined Communities*.
Ashcroft, Bill, Gareth Griffiths and Helen Tiffin, *Key Concepts in Post-Colonial Studies*.
Ashcroft, Bill. *The Post-Colonial Studies Reader*.
Bhabha, Homi K. *Nation and Narration*.
--- *The Location of Culture*.
Bruce, King. Ed. *The New National and Postcolonial Literatures: An Introduction*.
Brydon, Diana and Helen Tiffin. *Decolonizing Fictions*.

As recommended by PGBOS held on 30.06.2022 &
Faculty of Humanities and Arts on 18.07.2022

**M. A. ENGLISH
(SEMESTER IV)
M. A. English (CBCS) w. e. f. Session 2022-23
Gender Studies – II**

Course Code: 22ENG24D6
Course- XIX (D.S.E. Course – III) (opt. iii)
Nomenclature of the Course: Gender Studies – II
Credits: 5
Maximum Marks: 100
Theory: 80
Internal Assessment: 20
Time: 03 Hrs.

Learning Outcomes:

- C.S.O.1 Develops critical skills to understand gender relations in historical and contemporary time
- C.S.O.2 Introduces key concepts and various nuances of gender debates
- C.S.O.3 Familiarizes with major writers belonging to different gender and analyzing their works, along with strategies employed by them in their writing practices
- C.S.O.4. Helps to undertake advance research in respective fields

Unit I

Non-Detailed Readings:

- (i) Betty Friedan, Kate Millet, Germaine Greer, Meera Kosambi, Elaine Showalter, Julia Kristeva, Uma Chakarvarty, Urmila Panwar, bell hooks, Toril Moi
- (ii) Tharu and K. Lalitha eds. "Introduction" *Women Writing in India vol.1 600 BC to the Early Twentieth Century.* (pp 1- 40) Judith Wright's poem "Naked Girl and Mirror", (All Poetry). P. Valsala's short story "The Nectar of the Panguru Flower (Translated from Malayalam by Hema Nair R, Published by Women's Initiatives in Samyukta, A Journal of Gender and Culture, 2003)), Pratibha Nandakumar's "Poem" (Translated from the original Kannada into English by A K Ramanujan, Poemhunter.com - The World's Poetry Archive, 2006)

Unit II

Arundhati Roy: "The End of Imagination" (Frontline. August 29, 1998)

Unit III

Urmila Panwar: *The Weave of my Life: A Dalit Woman's Memoir*

Unit IV

Muriel Spark: *The Driver's Seat*

Unit V

Indira Goswami: "Under the Shadow of Kamakhya"
(from *Shadow of Kamakhya: Stories* by Indira Goswami.)

Ismat Chughtai: "Lihaf" (The Quilt)

"Niwala" (A Morsel)
 "Ghunghat" (The Veil)
 (from *The Quilt and Other Stories*)

Unit VI

Note: No question will be set from Unit VI. This unit is aimed at enriching the readings of the students and a comprehensive understanding of the Course. Students will submit their assignments for internal evaluation from this Unit only.

Rashid Jahan: *Angarey*
 Krishna Sobti: *Mitro Marjani*
 Amrita Pritam: *Rasidi Ticket (The Revenue Stamp)*
 Ismat Chughtai: *Kaghazi Hai Pairahan (A Life in Words)*
 Radclyffe Hall: *The Well of Loneliness*
 Katherine Mansfield: "Bliss"
 "At The Bay"
 (from *Katherine Mansfield: Selected Stories*, Oxford World Classics)
 Holmes, Mary: *What is Gender? Sociological Approaches*.
 Butler, J: *Undoing Gender*.
 Evans, Mary: *Gender and Social Theory*.
 Bordor, Susan. Ed. *Feminist Reconstruction of Being and Knowing*
 Chaturvedi, Rashmi: *Unveiling Womanhood: Dharker's "Purdah"*.
 Choudhry, Maitrayee: *Feminism in India*.

Instructions to the Paper setter and the Students

There will be nine questions. Students will be required to attempt five questions in all. All questions carry equal marks. In question 1, students will be required to write two short notes in about 150 words each from part (i) and (ii) of Unit I, out of the given four from each part. In questions 2 to 9, two questions will be set from each Unit from Unit II to V and the students will be required to attempt one from each Unit. The examiner shall mention Units.

Suggested Readings:

Bagul, Baburao. "Dalit Literature is but Human Literature," *Journal of Literature & Aesthetics*, Vol: 8, Nos: 1 & 2. Jan-Dec 2008
 Chughtai, Ismat. *The Quilt and Other Stories*.
 De Souza, Eunice. Ed. *Nine Indian Women Poets*.
 Disch, Lisa and Mary Hawkesworth. Ed. *The Oxford Handbook of Feminist Theory*.
 Freedman, Estelle B. *The Essential Feminist Reader*.
 Gauthaman, Raj. "Dalit Protest Culture: The First Stage."
 Ira Rankin. "Surface and Structure: Reading Muriel Spark's "The Driver's Seat" *The Journal of Narrative Theory*. Vol 15, No: 2 (Spring, 1985) pp 146-155.
 Jackson, Stevi, Scott, Sue. *Gender: A Sociological Reader*.
 Jain, Jasbir. Ed. *Women's Writing- Text and Context*.
 Mahmud Wajid. "Tradition and Experience in Ismat's Short Stories" Jamul Akhtar (ed.) *Alfazi Ismat Chughtai issue*. 1985
 Micahel, S.M. "Dalit Vision of Just Society in India."
 Millett, Kate. *Sexual Politics*.
 Pawar, Urmila. *The Weave of My Life: A Dalit Woman's Memoirs*. Tr. Maya Pandit.

**M. A. ENGLISH
(SEMESTER IV)
M. A. English (CBCS) w. e. f. Session 2022-23
Post Colonial Studies - II**

Course Code: 22ENG24D7
Course XIX (D.S.E. Course – III) (opt. iv)
Nomenclature of the Course: Postcolonial Studies – II
Credits: 5
Maximum Marks: 100
Theory: 80
Internal Assessment: 20
Time: 3 Hrs.

Learning Outcomes:

- C.S.O. 1: Familiarizes the students with theoretical concepts related to the literatures of the post-colonial world-African, Asian, Caribbean and Canadian etc.- which have remained outside discourse making for a long time
- C.S.O. 2: Foregrounds issues such as history, class, race, gender, nation, culture, marginality, diasporic consciousness etc. emphasizing the emergent nature of literary productions from decolonized communities
- C.S.O.3: Introduces students to some major issues and problems common to such literatures
- C.S.O.4: Enables to interrogate the Western canon

Unit I**Non-Detailed Readings:**

- (i) David Malouf, Zaddie Smith, Paigham Afaqui, Ben Okri, Tayeb Salih, Derek Walcott, Wole Soyinka, Salman Rushdie, Chinua Achebe, V.S. Naipaul
- (ii) Frantz Fanon: *The Wretched of the Earth*, Edward Said: *Orientalism*, Bill Ashcroft: *The Empire Writes Back*, Gyatri Chakravorty Spivak: *In Other Worlds*, Dominick La Capra: *The Bound of Race*, Benedict Anderson: *Imagined Communities*, Kamau Brathwaite: *The History of Voice*, Partha Chatterjee: *Nationalist Thought & the Colonial World*, Leela Gandhi: *Postcolonial Theory*, Gauri Viswanathan: *Masks of Conquest*.

Unit II

Kim Scott: *Benang*

Unit III

Naguib Mahfouz: *Children of Our Alley*

Unit IV

Chimamanda Ngozi Adichie: *Half of a Yellow Sun*

As recommended by PGBOS held on 30.06.2022 &
Faculty of Humanities and Arts on 18.07.2022

Unit – VMargaret Atwood: *Surfacing***Unit- VI**

Note: No question will be set from Unit VI. This unit is aimed at enriching the readings of the students and a comprehensive understanding of the Course. Students will submit their assignments for internal evaluation from this Unit only.

Chinua Achebe, Michael Ondaatje, Bessie Head, Nuruddin Farah, Aime Cesaire, Nadine Gordimer, Naguib Mehfoz, Kim Scott, Bapsi Sidhwa, Taslima Nasreen, Toni Morisson, Henry Louis Gate: *Signifying Monkey*, Gabriel Garcia Marquez : *One Hundred Years of Solitude*, Manjula Padmanabhan: *Harvest*, Uma Parameswaran: "The Door Shut Behind Me", Homi K. Bhabha: *Concept of Ambivalence and Hybridity*, Aijaz Ahmed: *In Theory: Classes, Nations, Literatures*. J.M. Coetzee: *Apartheid Thinking*, Robert Young: *Postcolonialism: A Historical Introduction*, Peter Carey: "Withdrawal", Uma Parmeswaran: "Darkest Before Dawn", Tarzia Faizullah: "The Interview Acknowledges Grief", Judith Wright: "Bora Ring", Pramod Nayar: *Postcolonial Reader: An Introduction*, Robert Young: *Concepts in History*, *Postcolonialism: A Historical Introduction*

Instructions to the Paper setter and the Students

There will be nine questions. Students will be required to attempt five questions in all. All questions carry equal marks. In question 1, students will be required to write two short notes in about 150 words each from part (i) and (ii) of Unit I, out of the given four from each part. In questions 2 to 9, two questions will be set from each Unit from Unit II to V and the students will be required to attempt one from each Unit. The examiner shall mention Units.

Suggested Readings:

Adichie, Chimamanda Ngozi. *Half of a Yellow Sun*.
 Anderson, Benedict. *Imagined Communities*.
 Ashcroft, Bill, et al. *Key Concepts in Post-Colonial Studies*.
 Ashcroft, Bill. *The Post-Colonial Studies Reader*.
 Atwood, Margaret. *Surfacing*.
 Atwood, Margaret. *Survival: A Thematic Guide to Canadian Literature*.
 Bhabha, Homi K. *Nation and Narration*.
 Bhabha, K. Homi. *The Location of Culture*.
 Bruce, King. *The New National and Postcolonial Literatures: An Introduction*.
 Brydon, Diana and Helen Tiffin. *Decolonizing Fictions*.
 Emenyonu, Earnest. *A Companion to Chimamanda Ngozi Adichie*.
 Frickey, Pierrette. *Critical Perspectives on Jean Rhys*.
 Gandhi, Leela. *Affective Communities*.
 Gandhi, Leela. *Postcolonial Theory*.
 Henry Louis Gates, Jr. *The Signifying Monkey*.
 Huchon, Linda. *The Politics of Postcolonialism*.
 Loomba, Ania. *Colonialism/Postcolonialism*.
 Mahfouz, Naguib. *Children of Our Alley*.
 McLeod, John. *Beginning Postcolonialism*.

As recommended by PGBOS held on 30.06.2022 &
 Faculty of Humanities and Arts on 18.07.2022



Established in 1951

CHHOTU RAM ARYA COLLEGE/छोटू राम आर्य महाविद्यालय
Sonapat-131001/ सोनीपत-१३१००१

GENDER SENSITIZATION AND
ANTI-SEXUAL HARASSMENT CELL


WEBSITE:
www.cracollegesonepat.org
Phone: 0130-2242925
Email: crasonepat@gmail.com


11-06-2018

Action Taken Report of Session 2017-2018

In accordance with the suggestions and decisions taken by all the committee members, two invited lectures speech competition, and inter college debate competition were organized during the session 2017-18. The faculty members made efforts to educate students about their constitutional rights and responsibilities as an ideal citizen of society. The maximum numbers of female staff members were involved in the celebration of International Woman Day.

The report of ICC was nil.

Dr. Usha Sahiya 

Dr. Vijay Kiran 



Dr. Anu Rathee

(Convener, Gender Sensitization and Anti-Sexual Harassment cell)





CHHOTU RAM ARYA COLLEGE

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Ref. No. CRA/.....(367-C.A)

Dated...14/09/2018

सूचना

सभी विद्यार्थियों को सूचित किया जाता है कि भूगोल विभाग के द्वारा दिनांक 25-26 सितम्बर 2018 को महाविद्यालय के ऑडिटोरियम में "Remote Sensing & GIS" के उपर एक "Workshop का आयोजन किया जा रहा है। भूगोल विषय के सभी विद्यार्थियों की उपस्थिति अनिवार्य है।

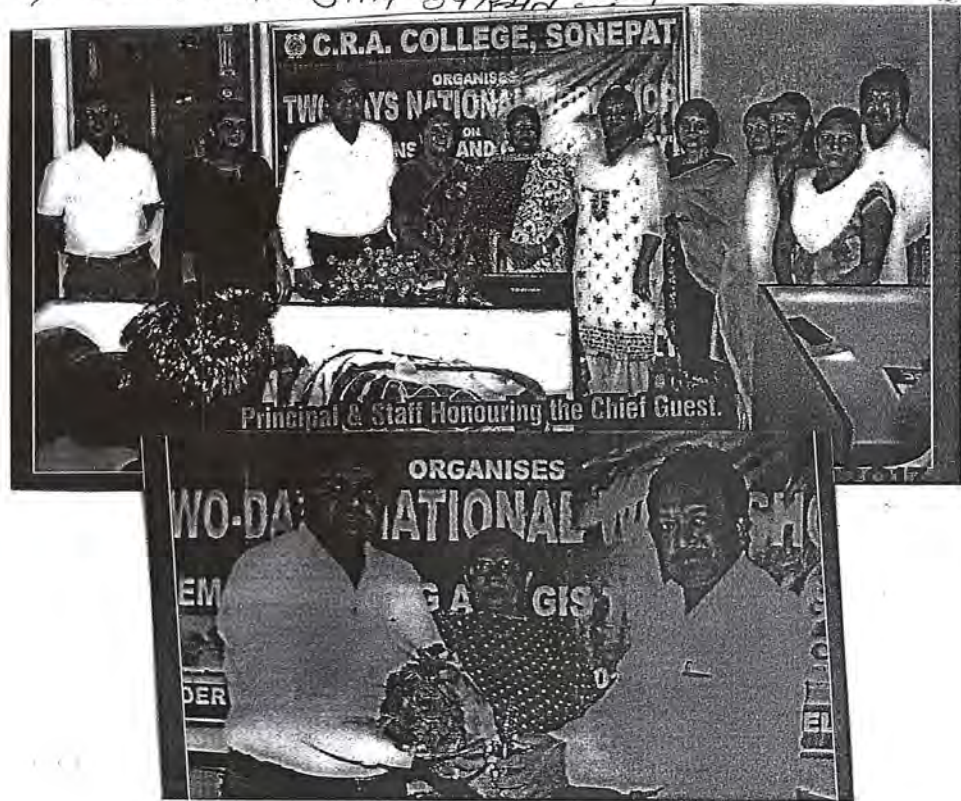
प्राचार्य
Principal
C.R.A. College
Sonapat

Report (2017-18)
Departmental Activity (Geography)

25.9.2018

26.9.2018

लोकेश्वर आर्य महाविद्यालय में 25 और 26 सितम्बर, 2018 को Remote Sensing and G.I.S. विषय पर दो दिवसीय वर्कशॉप व आयोजन किया गया। प्राचार्य डॉ. नरेंद्र खत्री ने मुख्याधीक्षक डॉ. अहलक्ष, प्रिंसिपल (Lalit College, Murthal, Sonapat) का स्वागत किया। इस दो दिवसीय वर्कशॉप में डॉ. ^{मुख्य वक्ता} Dr. Subrata Paul, Nigar Institute, Dwarka, New Delhi रहे। डॉ. कुमुदा पाल ने ब्रेक-की आस के समय में उपयोगिता पर प्रकाश डाला। इस मौके पर विभागाध्यक्ष डॉ. साधना ल्यंगी, डॉ. संगीता मान, डॉ. निशा राज रोमी, नीलम कविता आदि उपस्थित थे।





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GENDER SENSITIZATION AND
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03/06/2019

Action Taken Report of Session 2018-2019

With the consent of Gender Sensitization and Anti-Sexual Harassment cell, ICC and Women Cell three activities were organized to spread awareness among students. Two declamation contests on different topics and one workshop on women empowerment were organized during the session. The proposed renovation of ladies' staffroom was almost complete. All women, including girl students and staff members were encouraged to enroll in various short-term certificate courses of computer. NSS remained functional throughout this session to spread awareness regarding women's issues.

Report of ICC: no case of harassment was reported or registered.

Dr. Usha Dahiya *Usha Dahiya*
Dr. Vijay Koiran *Vijay Koiran*

Rathee

Dr. Anu Rathee

(Convener, Gender Sensitization and Anti-Sexual Harassment cell)





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Ref. No. CRA/.....

Dated.....

सूचना

सभी स्टाफ मेम्बर (टीचिंग एवं नॉन-टीचिंग) एवं विद्यार्थीयो को सूचित किया जाता है कि दिनांक 21 June 2019 सुबह 9 बजे महाविद्यालय में International Yoga Day मनाया जाएगा अतः सभी विद्यार्थीयो की समय पर उपस्तिथि अनिवार्य है।

प्राचार्य



REPORT

International Yoga Day

The International Yoga Day was celebrated on 21st June 2019 at 9 a.m. with great eagerness and enthusiasm at C.R.A. College, Sonipat by Sports Department and coordinated by Dr. Vikas Gahlawat, Assistant Professor in Sports Department was attended by around 20 staff members and students.

Before the demonstration, Dr. Vikas Gahlawat explained the meaning of Yog and then illustrated Pranayama and elaborated on its importance and benefits. He elaborated the point that regular yoga practice led to the better mental, physical and intellectual health. It positive changes the lifestyle of the people and increase the level of well-being.

Finally, the session was concluded by Mr. Pardeep, Assistant Professor in sports department by delivering vote of thanks.




Notice

Literacy Cell in Collaboration with the Faculty of Commerce and the Department of English will organise an Online Workshop on "Yoga" on Sunday, 21st June 2020 at 10 a.m. Dr. Alka, Yoga Department (Tika Ram College) will address participants. The Online Workshop link will be sent to Institution's official group as well as Students' class group soon.

Thanks and Regards


Dr. Vikas Gahlawat
(Convenor)




Dr. Narender Singh
(Principal)

Report

On Sunday, 21st June 2020 at 10 a.m. One Day Workshop on “Yoga” was organised on International Yoga Day by Literacy Cell in Collaboration with Faculty of Commerce and the Department of English. Dr. Alka, Assistant Professor in Yoga Department (Tika Ram Girls College, Sonipat) was the resource person for this workshop. She delivered an interesting and knowledgeable lecture, and talked about the Importance of yoga in daily life. This online workshop was a good learning experience for the participants. The workshop coordinator was, Mr. Pardeep, Assistant Professor in Physical Education Department. Convenor of this workshop was Dr. Vikas Gahlawat, Assistant Professor in Physical Education.





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GENDER SENSITIZATION AND
ANTI-SEXUAL HARASSMENT CELL

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03-06-2020

Action Taken Report of Session 2019-2020

As per the suggestions and decisions taken by all the committee members, workshop, speech competition, poster making competition and intra college debate competition were organized during the session 2018-19. The faculty members made efforts to sensitize students about the presence and acceptance of third gender in PG classes. The maximum numbers of female staff members were involved in gender sensitization activities.

❖ No case was reported as per the report of ICC.

Dr. Usha Dahiya
(Vijay Kiran)

Dr. Anu Rathee

Dr. Anu Rathee

(Convener, Gender Sensitization and Anti-Sexual Harassment cell)



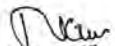
Notice

Literacy Cell in Collaboration with the Faculty of Commerce and the Department of English will organise an Online Workshop on "Do and Don't in Covid Pandemic" on Tuesday, 28th July 2020 at 11 a.m. Dr. Seema, Zoology Department will address participants. The Online Workshop link will be sent to Institution's official group as well as Students' class group soon.

Thanks and Regards


Dr. Vijay Kiran
(Convenor)




Dr. Narender Singh
(Principal)

Report

On Tuesday, 28th July 2020 at 11 a.m. One Day Workshop on “Do and Don’t in Covid Pandemic” was organised by Literacy Cell in Collaboration with Faculty of Commerce and the Department of English. Dr. Seema, Assistant Professor in Zoology Department was the resource person for this workshop. She suggested about practice of proper hand hygiene and don’t touch your face with unwashed hands, etc. This online workshop was a good learning experience for the participants. The workshop coordinator was Dr. Monika, Assistant Professor in Physics Department. Convener of this workshop was Dr. Vijay Kiran, Assistant Professor in Chemistry.



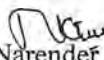
Notice

Literacy Cell in Collaboration with the Faculty of Commerce and the Department of English will organise an Online Workshop on "S.O.P. of during Covid" on Monday, 9th November 2020 at 1 p.m. Mrs. Monika, Chemistry Department will address participants. The Online Workshop link will be sent to Institution's official group as well as Students' class group soon.

Thanks and Regards

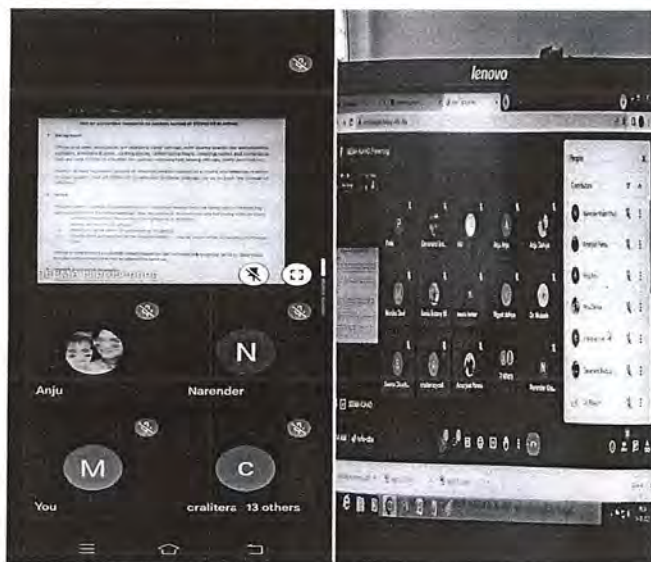

Dr. Vijay Kiran
(Convenor)




Dr. Narender Singh
(Principal)

Report

On Monday, 9th November 2020 at 1 p.m. One Day Workshop on “S.O.P. of during Covid” was organised by Literacy Cell in Collaboration with Faculty of Commerce and the Department of English. Mrs. Monika, Assistant Professor in Chemistry Department was the resource person for this workshop. In this workshop she advised that individuals must maintain a minimum distance of 6 feet in common places as far as feasible, etc. This online workshop was a good learning experience for the participants. The workshop coordinator was Mrs. Monika, Assistant Professor in Chemistry Department. Convenor of this workshop was Dr. Vijay Kiran, Assistant Professor in Chemistry Department.





CHHOTU RAM ARYA COLLEGE

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Ref. No. CRA/.....651-A.....

Date.....20-06-2021.....

सूचना

सभी स्टाफ मैम्बर (टीचिंग एवं नॉन-टीचिंग) एवं विद्यार्थियों को सूचित किया जाता है कि दिनांक 21 जून 2021 सुबह 8:00 बजे महाविद्यालय में **International Yoga Day** मनाया जा रहा है। अतः सभी विद्यार्थियों की समय पर उपस्थिति अनिवार्य है।

प्रचार्य
Principal
C.R.A. College
Sonepat

Estd. 1951



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SONEPAT-131001 (HARYANA)

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Ref. No. CRA/.....651.....

Date. 20-06-2021

To,

Dr. Alka
Tika Ram Girls College,
Sonapat

Subject: Invitation for Yoga Practice as a Guest.

Respected Madam,

We are pleased to inform you that our college is organising a Yoga Practice on 21.06.2021. So we request you to accept our invitation as Guest of honour. Please grace the occasion with your esteemed presence.

Regards,

Dr. Narender Singh

Principal

Prin ipal
C.R.A. College
Sonapat

Estd. 1951

Report

On Monday, 21st June 2021 at 8 a.m. International Yoga Day was celebrated by Literacy Cell. Dr. Alka, Assistant Professor in Yoga Department (Tika Ram Girls College, Sonipat) was the resource person for this workshop. She delivered an interesting and knowledgeable lecture, and talked about the Importance of yoga in daily life. It was a good learning experience for the participants. The Day coordinator was, Mr. Pardeep, Assistant Professor in Physical Education Department. Convenor of this workshop was Dr. Vikas Gahlawat, Assistant Professor in Physical Education.





Established in 1951

CHHOTU RAM ARYA COLLEGE/छोटू राम आर्य महाविद्यालय

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GENDER SENSITIZATION AND
ANTI-SEXUAL HARASSMENT CELL

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28-06-2021

Action Taken Report of Session 2020-2021

Against the backdrop of COVID-19 pandemic, primarily procedure to organize online lectures, workshops and webinar was finalized. The cell tried hard to provide a sense of connectedness and establish dialogue with students and staff members. As the students were not comfortable with online mode, only two activities were conducted by Women Development Cell. Online meet on cyber safety and online lecture on women's participation in politics were accomplished. NSS units worked sincerely to fight against covid-19.

The report of ICC was nil.

Dr. Usha Dahiya

Dr. (Vijay Kiran)

Dr. Anu Rathee

Dr. Anu Rathee

(Convener, Gender Sensitization and Anti-Sexual Harassment cell)





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Ref. No. CRA/.....

Date.....

सूचना

सभी स्टाफ मेम्बर (टीचिंग एवं नॉन-टीचिंग) एवं विद्यार्थीयो को सूचित किया जाता है कि दिनांक 21 June 2022 सुबह 9 बजे महाविद्यालय में **International Yoga Day** मनाया जाएगा अतः सभी विद्यार्थीयो की समय पर उपस्तिथि अनिवार्य है।

N. K.



प्राचार्य

REPORT

Yoga Session

Department of Physical Education celebrated International Yoga Day on 21st June 2022 at 10 a.m. in college premises in the presence of Dr. Narender Singh, Principal of C.R.A. College, Sonipat, Coordinator Dr. Vikas Gahlawat.

The session began with welcome of all by the coordinator followed by the informative speech about yoga & meditation which went as follows:

Yoga is an ancient physical, mental and spiritual practice that originated in India. The word 'Yoga' is derived from Sanskrit and means to join or to unite, symbolizing the union of body and consciousness. Every year, we celebrate international yoga Day on 21st June, since its inception in the year 2015. It has been a practice of our institute to give importance to Yoga and meditation as it gives several benefits to the one who is a regular practitioner.

This year also we celebrated Yoga Day on 21st June. The practice was conducted by Dr. Vikas Gahlawat. He himself took this practice and describes how opposite or contrary forces may actually be interconnected and interdependent in natural world.

The session was attended by students and staff members (teaching and non- teaching). All enthusiastically & looked keen to learn various techniques taught by Dr. Vikas Gahlawat. The session was successful one which displayed a great spirit of learning by students and staff members alike. The session ended by a formal vote of thanks delivered by Mr. Pardeep, Assistant Professor in Sports Department.





CHHOTU RAM ARYA COLLEGE/छोटू राम आर्य महाविद्यालय
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GENDER SENSITIZATION AND
ANTI-SEXUAL HARASSMENT CELL

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14-06-2022

Action Taken Report of Session 2021-2022

In accordance with the suggestions of the various committee members that the role and responsibilities of the cell should be increased, the cell worked with full dedication. With the collaboration of women cell, YRC and NSS the cell contributed to spread awareness of women's issues in and outside the campus through rallies on *Beti Bachao Beti Padhao* and *Female Feticide*. Poster making competition on women empowerment, and speech competition on *Matri shakti* were organized. To make this cell more meaningful and functional, health checkup camp was also organized. The cell provided significant contribution to celebrate Yoga Day.

Report of ICC: No case

Dr. Usha Dahiya *Usha*
Dr. Vijay Kiran *(VK)*

Rathee

Dr. Anu Rathee

(Convener, Gender Sensitization and Anti-Sexual Harassment cell)





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Ref. No. CRA/.....३१५१.....

Date.....२५/०१/२०२३.....

सूचना

सभी स्टाफ मेम्बर (टीचिंग एवं नॉन-टीचिंग) एवं विद्यार्थीयो को सूचित किया जाता है कि दिनांक 28 जनवरी 2023 सुबह 10 बजे महाविद्यालय में योगा प्रैक्टिस किया जा रहा है। अतः सभी विद्यार्थीयो की समय पर उपस्थिति अनिवार्य है।


प्रिन्सिपल

Principal
C.R.A. College
Sonepat

Estd. 1951



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SONEPAT-131001 (HARYANA)

Phone : 0130-2242925, Fax : 0130-2242925 E-mail : crasonepat@gmail.com Web : www.cracollegesonepat.org

Ref. No. CRA/.....3154.....

Date...24.01.2023

To,


Dr. Alka
Tika Ram Girls College,
Sonepat

Subject: Invitation for Yoga Practice as a Guest.

Respected Madam,

We are pleased to inform you that our college is organising a Yoga Practice on 28.01.2023. So we request you to accept our invitation as Guest of honour. Please grace the occasion with your esteemed presence.

Regards,

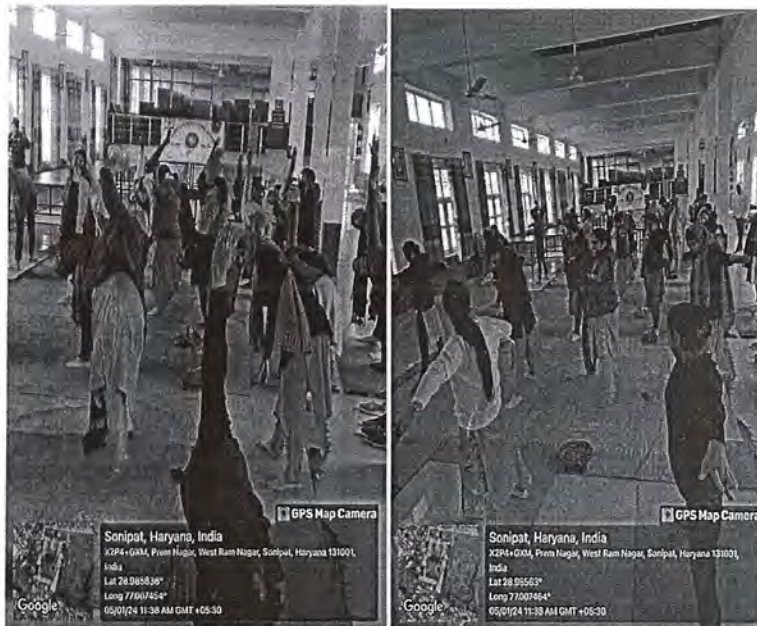
Dr. Narender Singh
Principal

Principal
C.R.A. College
Sonepat

Estd. 1951

REPORT Yoga Practice

Special Day Celebration Cell of C.R.A College, Sonipat organized Yoga practice in collaboration with Department of Sports and Physical Education, NSS, Health and Hygiene, Gender Sensitization Cell and English Department in college premises for students, teaching and non-teaching staff members with full interest, enthusiasm and eagerness with the protocols. Dr. Alka, Assistant Professor in Yoga Department (Tika Ram Girls College, Sonipat) was the resource person for this practice. Convenor of this workshop was Dr. Seema Rani, Assistant Professor in Commerce Department.

The event began with a brief introduction on Yoga by Dr. Alka. Warm up exercises were taken and all the students practiced & performed sitting and standing asanas, importance of these were explained simultaneously. The practice concluded with the speech of Dr. Seema Rani, Special Day Celebration Cell in charge.





Established in 1951

CHHOTU RAM ARYA COLLEGE/छोट्टू राम आर्य महाविद्यालय
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GENDER SENSITIZATION AND
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08-06-2023

Action Taken Report of Session 2022-2023

As per the decision of Gender Sensitization and Anti-Sexual Harassment Cell to conduct gender audit in the institute, IQAC, ICC, WDC joined hands to maintain authenticity of the audit. For this the faculty members from various colleges were also invited. In collaboration with the Women Cell, YRC, and NSS, the cell remained active to raise awareness about women's issues both in and outside the campus. WDC organized Mehndi Competition and Poster Making and Speech Competition on the various dimensions of women empowerment. To make girls feel free informal platforms for interaction were also created which involved maximum number of students and faculty members. To sensitize students about the plight of third gender, faculty members interacted with PG students. The cell celebrated International Woman Day on a grand scale.

Report of ICC: Nil

(Dr. Usha Dahiya)

(Vijay Kiran)

(Dr. Anu Rathee)

Dr. Anu Rathee

(Convener, Gender Sensitization and Anti-Sexual Harassment cell)

