

Detailed Course Scheme
Bachelor of Science (Hons.)
Agriculture

Semester- III
(2022- 26)

DOC202208220006



RNB GLOBAL UNIVERSITY

RNB Global City, Ganganagar Road,
Bikaner, Rajasthan 334601

OVERVIEW

RNB Global University follows Semester System along with Choice Based Credit System as per latest guidelines of University Grants Commission (UGC). Accordingly, each academic year is divided into two semesters, **Odd (July-December)** and **Even (January-June)**. Also, the university follows a system of continuous evaluation along with regular updating in course curricula and teaching pedagogy.

The Curriculum for B. Sc Agriculture program for (July-December) Odd Semester 2023 along with examination pattern is as follows:

Course Scheme

Semester -III

S.No.	Course Code	Course Name	L	T	P	Credits
1.	20012200	Crop Production Technology – I (Kharif Crops)	1	0	0	1
2.	20012300	Crop Production Technology – I Lab(Kharif Crops)	0	0	2	1
3.	20002100	Fundamentals of Plant Breeding	2	0	0	2
4.	20002200	Fundamentals of Plant Breeding Lab	0	0	2	1
5.	20012600	Agricultural Finance and Cooperation	2	0	0	2
6.	20012700	Agricultural Finance and Cooperation Lab	0	0	2	1
7.	20012800	Agri- Informatics	1	0	0	1
8.	20012900	Agri- Informatics Lab	0	0	2	1
9.	20013000	Farm Machinery and Power	1	0	0	1
10.	20013100	Farm Machinery and Power lab	0	0	2	1
11.	20013200	Production Technology for Vegetables and Spices	1	0	0	1
12.	20013300	Production Technology for Vegetables and Spices Lab	0	0	2	1
13.	20025200	Environmental Studies & Disaster Management	3	0	0	3
14.	20000700	Statistical Methods	2	1	0	3
15.	20013800	Livestock and Poultry Management	3	0	0	3
16.	20013900	Livestock and Poultry Management Lab	0	0	2	1
17.	20014100	Ability and Skill Enhancement -III	2	0	0	2
18.	99003300	Workshops & Seminars/ Human Values & SocialService/NCC/NSS	-	-	-	1
		Total	18	1	14	27

EVALUATION SCHEME - THEORY

The evaluation of the theory paper of B.Sc. Agriculture program would be based on Internal and External Assessments. Internal Assessment would consist of 50% of the marks (50 marks) and external assessment (in form of End Term Exam) would consist of remaining 50% marks (50 marks). Detailed scheme of Internal and External Assessments as follows:

Internal Assessment

The distribution of Internal Assessment Marks is as follows:

Type	Details	Marks
Mid Term	Two Mid-term Sessional of 15 marks each (15+15)	30
Marks obtained in various Tests, Assignments, Presentations, Quiz, Tutorials, etc.	Average of marks obtained	15
Attendance	75%+ : 5 marks	5
TOTAL	50	

External Assessment

Type	Marks
Theory	50

EVALUATION SCHEME - PRACTICAL

The evaluation of the practical paper of B.Sc. Agriculture program would be based on Internal and External Assessments. Internal Assessment would consist of 50% of the marks (50 marks) and external assessment (in form of End Term Exam) would consist of remaining 50% marks (50 marks). Detailed scheme of Internal and External Assessment is as follows:

Internal Assessment

Type	Details	Marks
Marks obtained in various manuals, practical file, participation, any model prepared, output of practical	Average of marks obtained	45
Attendance	75%+ : 5 marks	5
TOTAL	50	

External Assessment

Type	Marks
Practical	50

EVALUATION SCHEME- WORKSHOPS & SEMINARS & NCC/NSS

1. NCC/NSS will be completed from Semester I – Semester IV. It will be evaluated internally by the institute. The credit for this will be given at the end of Semester.
2. The students have to join club/clubs with the active participation in different activities of club. The students would be continuously assessed from Semester-I to Semester-IV and credits and marks would be given after the end of Semester.

CURRICULUM

Course Name: Crop Production Technology – I (Kharif Crops)

Course Code: 20012200

Course Outline

Theory

Unit I

Origin, geographical distribution, economic importance, soil and climatic requirements, varieties, cultural practices and yield of *Kharif* crops.

Unit II

Cereals – rice, maize, sorghum, pearl millet and finger millet, pulses-pigeonpea, mungbean and urdbean; oilseeds- groundnut, and soybean; fibre crops- cotton & jute; forage crops-sorghum, cowpea, cluster bean and napier.

Course Name: Crop Production Technology – I Lab (Kharif Crops)

Course Code: 20012300

Course Outline

1. Rice nursery preparation, transplanting of rice
2. Sowing of soybean, pigeonpea and mungbean; maize, groundnut and cotton
3. Effect of seed size on germination and seedling vigour of kharif season crops
4. Effect of sowing depth on germination of kharif crops
5. Identification of weeds in kharif season crops, top dressing and foliar feeding of nutrients,
6. Study of yield contributing characters and yield calculation of kharif season crops
7. study of crop varieties and important agronomic experiments at experimental farm
8. Study of forage experiments
9. Morphological description of kharif season crops
10. Visit to research centres of related crops

Course Name : Fundamentals of Plant Breeding

Course Code: 20002100

Course Outline

Unit 1

Historical development, concept, nature and role of plant breeding, objectives of plant breeding, major achievements and future prospects; Genetics in relation to plant breeding, modes of reproduction, pollination and apomixes, self – incompatibility and male sterility- genetic consequences, cultivar options. Domestication, Acclimatization, introduction; Centre of origin/diversity.

Unit II

Component of Genetic variation; Heritability and genetic advance; Genetic basis and breeding methods in self- pollinated crops- mass and pure line selection, pedigree, bulk, SSD and backcross methods, hybridization techniques and handling of segregating population; Multiline concept.

Concepts of population genetics and Hardy-Weinberg Law, Genetic basis and methods of breeding cross pollinated crops, modes of selection; Heterosis and inbreeding depression, development of inbred lines and hybrids, composite and synthetic varieties;

Unit III

Breeding methods in asexually propagated crops, clonal selection and hybridization; Wide hybridization and pre-breeding; Polyploidy in relation to plant breeding, mutation breeding-methods and uses;

Breeding for important biotic and abiotic stresses; Biotechnological tools-DNA markers and marker assisted selection. Participatory plant breeding; Development and release of varieties

Suggested Readings:

1. Alard, R.W. 2000.Principles of Plant Breeding. John Willey & Sons, New York.
2. Chahel, G.S. and S.S. Ghosal.2002.Principles and Procedures of Plant Breeding, Biotechnological and Conventional Approaches. Narosa Publishing House, New Delhi.
3. Singh, B.D. 2005. Plant Breeding.Kalyani Publishing House, New Delhi.
4. Singh, P. 2001.Essentials of Plant Breeding-Principles and Methods. Kalyani Publishing House, New Delhi.
5. Jain,H.K. and M.C. Kharkwal.2004. Plant Breeding- Mendelian to Molecular Approach.Narosa Publishing House, New Delhi.
6. Sharma, A.K. 2005. Breeding Technology of Crop Plants (Edt.).Yash Publishing House, Bikaner.

7. Shekhawat, S. S. (ed) (2016). Advances and Current Issues in Agriculture, Vol.III. Shiksha Prakashan, S. M. S. Highway, Jaipur.

Course Name: Fundamentals of Plant Breeding Lab

Course Code: 20002200

Practical:

1. Plant Breeder's kit, Study of germplasm of various crops.
2. Study of floral structure of self pollinated and cross pollinated crops.
3. Emasculation and hybridization techniques in self & cross pollinated crops.
4. Consequences of inbreeding on genetic structure of resulting populations.
5. Study of male sterility system.
6. Handling of segregating populations.
7. Methods of calculating mean, range, variance, standard deviation, heritability.
8. Designs used in plant breeding experiment, analysis of Randomized Block Design and components of genetic variance.
9. To work out the mode of pollination in a given crop and extent of natural out crossing. Prediction of performance of double cross hybrids.

Suggested Readings:

1. Alard, R.W. 2000.Principles of Plant Breeding. John Willey & Sons, New York.
2. Chahel, G.S. and S.S. Ghosal.2002.Principles and Procedures of Plant Breeding, Biotechnological and Conventional Approaches. Narosa Publishing House, New Delhi.
3. Singh, B.D. 2005. Plant Breeding.Kalyani Publishing House, New Delhi.
4. Singh, P. 2001.Essentials of Plant Breeding-Principles and Methods. Kalyani Publishing House, New Delhi.
5. Jain,H.K. and M.C. Kharkwal.2004. Plant Breeding- Mendelian to Molecular Approach.Narosa Publishing House, New Delhi.
6. Sharma, A.K. 2005. Breeding Technology of Crop Plants (Edt.).Yash Publishing House, Bikaner.
7. Shekhawat, S. S. (ed) (2016). Advances and Current Issues in Agriculture, Vol. III. ShikshaPrakashan, S. M. S. Highway, Jaipur.

Course Name: Agricultural Finance and Cooperation

Course Code: 20012600

Course Outline

Unit I

Agricultural Finance- meaning, scope and significance, credit needs and its role in Indian agriculture. Agricultural credit: meaning, definition, need, classification. Credit analysis: 4 R's, and 3C's of credits. Sources of agricultural finance: institutional and non-institutional sources, commercial banks, social control and nationalization of commercial banks, Micro financing including KCC. Lead bank scheme, RRBs, Scale of finance and unit cost.

Unit II

An introduction to higher financing institutions – RBI, NABARD, ADB, IMF, world bank, Insurance and Credit Guarantee Corporation of India. Cost of credit. Recent development in agricultural credit. Preparation and analysis of financial statements – Balance Sheet and Income Statement. Basic guidelines for preparation of project reports- Bank norms – SWOT analysis.

Unit III

Agricultural Cooperation – Meaning, brief history of cooperative development in India, objectives, principles of cooperation, significance of cooperatives in Indian agriculture. Agricultural Cooperation in India- credit, marketing, consumer and multi-purpose cooperatives, farmers' service cooperative societies, processing cooperatives, farming cooperatives, cooperative warehousing; role of ICA, NCUI, NCDC, NAFED.

Course Name: Agricultural Finance and Cooperation Lab

Course Code: 20012700

Course Outline

Practical

1. Determination of most profitable level of capital use. Optimum allocation of limited amount of capital among different enterprise.
2. Analysis of progress and performance of cooperatives using published data.
3. Analysis of progress and performance of commercial banks and RRBs using published data.
4. Visit to a commercial bank, cooperative bank and cooperative society to acquire firsthand knowledge of their management, schemes and procedures.
5. Estimation of credit requirement of farm business – A case study. Preparation and analysis of balance sheet – A case study.
6. Preparation and analysis of income statement – A case study.
7. Appraisal of a loan proposal- A case study.
8. Techno-economic parameters for preparation of projects.
9. Preparation of Bankable projects for various agricultural products and its value-added products.
10. Seminar on selected topics.

Course Name: Agri- Informatics

Course Code: 20012800

Course Outline

Unit I

Introduction to Computers, Operating Systems, definition and types, Applications of MSOffice for document creation & Editing, Data presentation, interpretation and graph creation, statistical analysis, mathematical expressions, Database, concepts and types, uses of DBMS in Agriculture, World Wide Web (WWW): Concepts and components.

Unit II

Introduction to computer programming languages, concepts and standard input/output operations e-Agriculture, concepts and applications, Use of ICT in Agriculture. Computer Models for understanding plant processes. IT application for computation of water and nutrient requirement of crops, Computer-controlled devices (automated systems) for Agri-input management, Smartphone Apps in Agriculture for farm advises, market price, postharvest management etc.

Unit III

Geospatial technology for generating valuable agri-information Decision support systems, concepts, components and applications in Agriculture, Agriculture Expert System, Soil Information Systems etc for supporting Farm decisions. Preparation of contingent crop-planning using IT tools

Suggested Readings

1. Sinha, P.K. Computer Fundamentals (BPB Publications).
2. Niranjan Mansal and Jayshri Saraogi Computer Made Easy For Beginners (Hindi).
3. Satish Jain, Shashank Jain and Madhullika Jain. It Tools and Applications (BPB Publications).
4. MS Office 2000. Joe Habraken.
5. Rapidex Computer Course (Pustak Mahal)
6. Davinder Singh Minhas- Dynamic Memory Computer Course (Fusin Books), New Delhi.

Course Name: Agri- Informatics Lab

Course Code: 20012900

Course Outline

1. Study of Computer Components, accessories, practice of important DOS Commands.
2. Introduction of different operating systems such as windows, Unix/ Linux, Creating, Files & Folders, File Management. Use of MS-WORD and MS Power-point for creating, editing and presenting a scientific Document.

3. MS-EXCEL - Creating a spreadsheet, use of statistical tools, writing expressions, creating graphs, analysis of scientific data.
4. MS-ACCESS: Creating Database, preparing queries and reports, demonstration of Agri-information system.
5. Introduction to World Wide Web (WWW).
6. Introduction of programming languages.
7. Hands on Crop Simulation Models (CSM) such as DSSAT/Crop-Info/CropSyst/Wofost;
8. Computation of water and nutrient requirements of crop using CSM and IT tools.
9. Introduction of Geospatial Technology for generating valuable information for Agriculture.
10. Hands on Decision Support System.
11. Preparation of contingent crop planning.

Course Name: Farm Machinery and Power

Course Code: 20013000

Course Outline

Unit I

Status of Farm Power in India, Sources of Farm Power , I.C. engines, working principles of IC engines, comparison of two stroke and four stroke cycle engines , Study of different components of I.C. engine, I.C. engine terminology and solved problems, Familiarization with different systems of I.C. engines: Air cleaning, cooling, lubrication ,fuel supply and hydraulic control system of a tractor, Familiarization with Power transmission system : clutch, gear box, differential and final drive of a tractor , Tractor types, Cost analysis of tractor power and attached implement.

Unit II

Familiarization with Primary and Secondary Tillage implement, implement for hill agriculture, implement for intercultural operations, Familiarization with sowing and planting equipment, calibration of a seed drill and solved examples, Familiarization with Plant Protection equipment, Familiarization with harvesting and threshing equipment.

Suggested Readings:

1. Principles of Farm Machinery – Roy Bainer, R.A. Kepner, E.L. Barger
2. Farm Machinery and Equipment – C.P. Nakra
3. Elements of Farm Machinery – J. Sahay

Course Name: Farm Machinery and Power Lab

Course Code: 20013100

Course Outline

1. Study of different components of I.C. engine
2. To study air cleaning and cooling system of engine
3. Familiarization with clutch, transmission, differential and final drive of a tractor, Familiarization with lubrication and fuel supply system of engine
4. Familiarization with brake, steering, hydraulic control system of engine
5. Learning of tractor driving, Familiarization with operation of power tiller, Implements for hill agriculture
6. Familiarization with different types of primary and secondary tillage implements: mould plough, disc plough and disc harrow.
7. Familiarization with seedcum- fertilizer drills their seed metering mechanism and calibration, planters and transplanter
8. Familiarization with different types of sprayers and dusters Familiarization with different intercultivation equipment, Familiarization with harvesting and threshing machinery.

Course Name: Production Technology for Vegetables and Spices

Course Code: 20013200

Course Outline

Unit I

Importance of vegetables & spices in human nutrition and national economy, kitchen gardening, brief about origin, area, climate, soil, improved varieties and cultivation practices such as time of sowing, transplanting techniques, planting distance, fertilizer requirements, irrigation, weed management, harvesting and yield, physiological disorders, of important vegetable and spices.

Unit II

(Tomato, Brinjal, Chilli, Capsicum, Cucumber, Melons, Gourds, Pumpkin, French bean, Peas; Cole crops such as Cabbage, Cauliflower, Knol-khol; Bulb crops such as Onion, Garlic; Root crops such as Carrot, Raddish, Beetroot; Tuber crops such as Potato; Leafy vegetables such as Amaranth, Palak. Perennial vegetables).

Course Name: Production Technology for Vegetables and Spices Lab

Course Code: 20013300

Course Outline

1. Identification of vegetables & spice crops and their seeds.
2. Nursery raising.
3. Direct seed sowing and transplanting.
4. Study of morphological characters of different vegetables & spices.

5. Fertilizers applications.
6. Harvesting & preparation for market.
7. Economics of vegetables and spices cultivation.

Course Name: Environmental Studies & Disaster Management

Course Code: 20025200

Course Outline

Unit I

Multidisciplinary nature of environmental studies Definition, scope and importance.

Unit II

Natural Resources: Renewable and non-renewable resources. Natural resources and associated problems.

a) Forest resources: Use and over-exploitation, deforestation, case studies. Timber extraction, mining, dams and their effects on forest and tribal people. b) Water resources: Use and over-utilization of surface and ground water, floods, drought, conflicts over water, dams-benefits and problems. c) Mineral resources: Use and exploitation, environmental effects of extracting and using mineral resources, case studies. d) Food resources: World food problems, changes caused by agriculture and overgrazing, effects of modern agriculture, fertilizer-pesticide problems, water logging, salinity, case studies. e) Energy resources: Growing energy needs, renewable and non-renewable energy sources, use of alternate energy sources. Case studies. f) Land resources: Land as a resource, land degradation, man induced landslides, soil erosion and desertification. • Role of an individual in conservation of natural resources. • Equitable use of resources for sustainable lifestyles.

Unit III

Ecosystems • Concept of an ecosystem. • Structure and function of an ecosystem. • Producers, consumers and decomposers. • Energy flow in the ecosystem. • Ecological succession. • Food chains, food webs and ecological pyramids. • Introduction, types, characteristic features, structure and function of the following ecosystem : a. Forest ecosystem; b. Grassland ecosystem; c. Desert ecosystem; d. Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries)

Unit IV

Biodiversity and its conservation:- Introduction, definition, genetic, species & ecosystem diversity and biogeographical classification of India. Value of biodiversity: consumptive use, productive use, social, ethical, aesthetic and option values. Biodiversity at global, National and local levels, India as a mega-diversity nation. Hot-spots of biodiversity. Threats to biodiversity: habitat loss, poaching of wildlife, man-wildlife conflicts. Endangered and endemic species of India. Conservation of biodiversity: In-situ and Ex-situ conservation of biodiversity.

Unit V

Environmental Pollution: definition, cause, effects and control measures of :a. Air pollution; b. Water pollution; c. Soil pollution; d. Marine pollution; e. Noise pollution; f. Thermal pollution; g. Nuclear hazards. Solid Waste Management: causes, effects and control measures of urban and industrial wastes. Role of an individual in prevention of pollution. Pollution case studies.

Unit VI

Social Issues and the Environment:

From Unsustainable to Sustainable development; Urban problems related to energy; Water conservation, rain water harvesting, watershed management; Environmental ethics: Issues and possible solutions, climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust. dyes. Wasteland reclamation. Consumerism and waste products. Environment Protection Act. Air (Prevention and Control of Pollution) Act. Water (Prevention and control of Pollution) Act. Wildlife Protection Act. Forest Conservation Act. Issues involved in enforcement of environmental legislation. Public awareness.

Unit VII

Human Population and the Environment: population growth, variation among nations, population explosion, Family Welfare Programme. Environment and human health: Human Rights, Value Education, HIV/AIDS. Women and Child Welfare. Role of Information Technology in Environment and human health.

Disaster Management

Unit I

Natural Disasters- Meaning and nature of natural disasters, their types and effects. Floods, drought, cyclone, earthquakes, landslides, avalanches, volcanic eruptions, Heat and cold waves, Climatic change: global warming, Sea level rise, ozone depletion.

Unit II

Man Made Disasters- Nuclear disasters, chemical disasters, biological disasters, building fire, coal fire, forest fire, oil fire, air pollution, water pollution, deforestation, industrial waste water pollution, road accidents, rail accidents, air accidents, sea accidents.

Unit III

Disaster Management- Effect to migrate natural disaster at national and global levels. International strategy for disaster reduction. Concept of disaster management, national disaster management framework; financial arrangements; role of NGOs, community –

based organizations and media. Central, state, district and local administration; Armed forces in disaster response; Disaster response; Police and other organizations.

1. Pollution case studies.
2. Case Studies- Field work: Visit to a local area to document environmental assets river/ forest/ grassland/ hill/ mountain.
- 3 visit to a local polluted site Urban/Rural/Industrial/ Agricultural, study of common plants, insects, birds and study of simple ecosystems-pond, river, hill slopes, etc.

Suggested Readings

1. Ecology and Environment- P D Sharma, 2010, Rastogi publication, Meerut- New Delhi
2. Environmental Science: A New Approach- Pushpa Dahiya, Manisha Ahlawat, 2013, Alpha Science
3. Fundamentals of environmental Sciences, Bamanayha B. R. Verma L. N. and Verma A., 2005, Yash publishing house, Bikaner
4. Disaster Management and Risk Reduction: Role of Environmental Knowledge, Editor(s): Anil K. Gupta, Sreeja S. Nair, Florian Bemmerlein-Lux, Sandhya Chatterji, 2013, Alpha Science
5. Environmental Biology, Agarwal K C, 1999, Agro Botanica, Bikaner

Course Name: Statistical Methods

Course Code : 20025800

Course Outline:

Unit I

Introduction to Statistics and its Applications in Agriculture, Graphical Representation of Data, Measures of Central Tendency & Dispersion, Definition of Probability, Addition and Multiplication Theorem (without proof) Simple Problems Based on Probability. Binomial & Poisson Distributions.

Unit II

Definition of Correlation, Scatter Diagram Karl Pearson's Coefficient of Correlation Linear Regression Equations.

Introduction to Test of Significance, One sample & two sample test t for Means, Chi-Square Test of Independence of Attributes in 2 × 2 Contingency Table.

Unit III

Introduction to Analysis of Variance Analysis of One Way Classification Introduction to Sampling Methods, Sampling versus Complete Enumeration, Simple Random Sampling with and without replacement, Use of Random Number Tables for selection of Simple Random Sample.

Practical:

1. Graphical Representation of Data.
2. Measures of Central Tendency (Ungrouped data) with Calculation of Quartiles, Deciles & Percentiles.
3. Measures of Central Tendency (Grouped data) with Calculation of Quartiles, Deciles & Percentiles.
4. Measures of Dispersion (Ungrouped Data). Measures of Dispersion (Grouped Data).
5. Moments, Measures of Skewness & Kurtosis (Ungrouped Data).
6. Moments, Measures of Skewness & Kurtosis (Grouped Data).
7. Correlation & Regression Analysis.
8. Application of One Sample t-test.
9. Application of Two Sample Fisher's t-test.

Course Name: Livestock and Poultry Management

Course Code: 20013800

Course Outline

Unit I

Role of livestock in the national economy. Reproduction in farm animals and poultry. Housing principles, space requirements for different species of livestock and poultry. Management of calves, growing heifers and milch animals. Management of sheep, goat and swine. Incubation, hatching and brooding. Management of growers and layers. Important Indian and exotic breeds of cattle, buffalo, sheep, goat, swine and poultry.

Unit II

Improvement of farm animals and poultry. Digestion in livestock and poultry. Classification of feedstuffs. Proximate principles of feed. Nutrients and their functions. Feed ingredients for ration for livestock and poultry. Feed supplements and feed additives. Feeding of livestock and poultry. Introduction of livestock and poultry diseases. Prevention (including vaccination schedule) and control of important diseases of livestock and poultry.

Course Name: Livestock and Poultry Management Lab

Course Code: 20013900

Course Outline

1. External body parts of cattle, buffalo, sheep, goat, swine and poultry.
2. Handling and restraining of livestock. Identification methods of farm animals and poultry.
3. Visit to IDF and IPF to study breeds of livestock and poultry and daily routine farm operations and farm records. Judging of cattle, buffalo and poultry.
4. Culling of livestock and poultry.
5. Planning and layout of housing for different types of livestock.
6. Computation of rations for livestock. Formulation of concentrate mixtures.
7. Clean milk production, milking methods. Hatchery operations, incubation and hatching equipments.
8. Management of chicks, growers and layers.
9. Debeaking, dusting and vaccination.
10. Economics of cattle, buffalo, sheep, goat, swine and poultry production.

Course Name: Ability and Skill Enhancement III

Course Code: 20014100

Course Outline - Final Assessment - Preparing a documentary

Unit I: Book & Movie Reviews

What is Book Review, Purpose & Importance of Book Review, Types of Book Review, Elements & Steps of Writing Book Review, What is Movie Review, Purpose & Importance of Movie Review, Types of Movie Review, Elements & Steps of Writing Movie Review.

Unit II: LSWR Skills

Reading Comprehension, Rewriting Mythology/Folklore, Debate, News Analysis, Role Plays.

Unit III: Emotional Intelligence & Handling Emotions

What is emotional intelligence, E.Q. Tests, performing under pressure, how to take right decisions under pressure keeping balance in difficult emotional situations. The science of emotional intelligence, characteristics of emotional intelligence, Emotions handling- identifying good and bad emotions, how to control emotions, how to manage negative emotions keeping balance of mental stability, stress and distress.

Unit IV: Group Discussion Skills

What is GD, Types of Group Discussions, Do's & Don'ts, Participation, Thinking, Structuring, Group Behaviour, Leadership Skills, Interpersonal Skills, Persuasive Skills, Conceptualization Skills.

Unit V: Documentary Making

What is documentary, aims & objectives, documentary for social cause, Documentary/Movie Screening & Reviews, preparing a documentary, Narration.

Note: The review of Syllabus happens on periodic basis for the benefit of the students. In case there are changes in curriculum due to review, students would be intimated in writing.

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