

WEST BENGAL STATE UNIVERSITY

DEPT. OF AGRICULTURE & RURAL DEVELOPMENT

DRAFT SYLLABUS

Subject : Agriculture & Rural Development

Programme : M.Sc.
Duration : 4 Semesters (2years)
Eligibility : Honours Graduate in any Science, Social Science & Commerce discipline.
Total Marks : 1500
Total No. of Courses : 12
Total No. of Papers : 12

Part – I, Semester -I

Marks : 300

Paper	Courses	Full Marks
01	Rural Development Interventions (ARD401)	100 (80+20)
02	Economics for Rural Development (ARD402)	100 (80+20)
03	Fundamentals of Management (ARD403)	100 (80+20)

Part – I, Semester -II

Marks : 300

Paper	Courses	Full Marks
04	Fundamentals of Social Science Research (ARD404)	100 (80+20)
05	Rural Development Pro grammes (ARD405)	100 (80+20)
06	Social and Environmental Management (ARD406)	100 (80+20)

Part – II, Semester -I

Marks : 400

Paper	Courses	Full Marks
07	Project Management & Marketing Management (ARD 407)	100 (80+20)
08	Rural Entrepreneurship Development (ARD408)	100 (80+20)
09	Seminar & Field Study (ARD 409)	200 (50+150)

Part – II, Semester -II

Marks : 500

Paper	Courses	Full Marks
10	Information Technology for Rural Development (ARD410)	100 (80+20)
11	Basics of Agricultural Technology (ARD 411)	100 (80+20)
12	Dissertation (ARD412)	300

Courses in details

ARD 401 RURAL DEVELOPEMENT INTERVENTIONS

(80+20)

Theory :

Group – A: Development : Meaning, objectives, indicators, problems, theories and factors. Rural Development : Concepts, measures, determinants, policies, strategies and approaches. Rural Development Experiences in Independence period.

Group-B : Rural Sociology : Definition, origin, scope, social structure, social change, social stratification, social institution, value systems, leadership, Rural-Urban differences. Group – Tribal, Minorities and other Backward Classes, Demographic Dynamics.

Practical : Rural Development Administration.

ARD 402 ECONOMICS FOR RURAL DEVELOPMENT

(80+20)

Theory :

Group-A : Rural Economy : Definitions, concept, structure, policies. National income. Problems of Indian Rural economy. Demands, supply, equilibrium, market structure.

Production : Theory, function, stages, law of diminishing return, estimation & cost, fiscal policy, budget, public expenditure, public debt, deficit financing, Rural credit institutions, credit schemes of GOI, NGOs. Informal sources of Rural credit. Farm economy, cost-benefit studies, Rural Infrastructures.

Group-B : Accounting : Definition, single and double entry system, journals, ledger accounts, trial balance, final accounts, accounting of farm, Co-operative society and Panchayat. Management accounting. cost classification, cost sheet, CPV analysis, cash flow analysis, ratio analysis, budgetary control. Accounting of small enterprises.

Practical : Accounting. Cost-Benefit studies of Farm income.

ARD 403 FUNDAMENTALS OF MANAGEMENT

(80+20)

Theory :

Group A : Management : Meaning, need, functions, principles, theory, role, control. Programme planning, participatory Rural appraisal, development communication, feedback, homophilly-heterophily. Management information system, water resource management, farm business management.

Group-B : Human Resource Management. Training and development. Training-needs, methodology, types. Extension teaching methods. Welfare programme, conditions for effective learning. Adoption. Motivation. Decision making. Performance Appraisal, wage and salary administration. Morale & Productivity. Industrial relations. Recruitment and selection.

Practical : Participatory Rural Appraisal, Extension teaching methods.

ARD 404 FUNDAMENTALS OF SOCIAL SCIENCE RESEARCH**(80+20)****Theory :**

Group-A : Social Science Research : Meaning, objective, significance, Steps, Concepts of Hypothesis. Research design, sampling design, sampling fundamentals. Collection of data, preparation of interview schedule and questionnaire preparation,

Group -B: Measurement and scaling techniques. Interpretation & report writing. Testing of parametric and non-parametric Tests, analysis and presentation of data, frequency distribution, measures of central tendency, dispersion, skewness, relationship. Multiple co-relation, chi-square test, analysis of variance.

Practical : Sampling, preparation of interview schedule, data collection & compilation, data analysis.

ARD 405 RURAL DEVELOPEMENT PROGRAMMES**(80+20)****Theory :**

Group A: Five – years plans and Rural development Programmes in India. IVLP, Operation Flood, Green Revolution, land reforms and operation barga. Watershed programme, Rural sanitation programme – Annapurna, Swajaldhara, T & V system, NAEP, NREGA, SGSY.etc. Different approaches of development in Post Independence periods.

Group -B: Panchayat Raj institution, co-operatives, ATIC, ATMA. Millennium Development, Food Security, Farmer Systems Research, Broad Based Agricultural Extension.

Practical : Evaluation of ongoing Rural development programmes.

ARD 406 SOCIAL SECTOR DEVELOPMENT AND ENVIRONMENTAL MANAGEMENT**(80+20)****Theory :**

Group – A : Poverty, Rural livelihoods and livelihood development, capacity buildings. Educational programmes, economic development, health attainment and transition, morbidity & mortality, private & public health in India, National Rural health Mission. Gender relationship, Status of women & men in Rural India. Development & Planning.

Group – B : Natural resources, social cost benefit analysis, linear programming, simulation models, environmental oriented development policy. Participatory environmental management, disaster management.

Practical : Measurement of health indicators.

ARD 407 PROJECT MANAGEMENT AND MARKETING MANAGEMENT (80+20)

Theory :

Group – A : Project-concept, life cycle, identification, formulation, appraisal, implementation, Monitoring, Supervision, evaluation and project report. Risk analysis.

Group – B : Rural marketing management, Rural marketing research. Strategy of product, pricing, promotion branding packaging and distribution. Agribusiness Management.

Practical : Preparation of project on livestock, Dairy, Fishery, Agriculture, Sericulture, Bee keeping, Forestry, Integrated farming, Mixed farming etc.

ARD 408 RURAL ENTREPRENEURSHIP DEVELOPMENT (80+20)

Theory :

Group – A : Entrepreneurship-concept, growth, types, functions and characteristics. Factors, motivation, and competencies. Mobility & EDP. Project identification and selection. Financing need, source, accounting.

Group – B : Micro-finance-concepts, delivery system. Women and Micro-Finance. NGO : Role and functions. Different Govt. schemes for NGOs.

Practical : Visit to farm of different rural enterprises.

ARD 409 SEMINAR & FIELD VISIT (50+150)

Seminar : To be guided by Supervisor.

Field Visit : Every student has to study at least one village.

ARD 410 BASICS OF AGRICULTURAL TECHNOLOGY (80+20)

Theory :

Group - A : Basic technology related to Agriculture – Integrated Nutrient Management System, Integrated Pest Management, Agronomy of major Crop production, Floriculture, Horticulture, Pomology, Post Harvest Technology in Agriculture. Organic Farming.

Group – B : Improved Technology related to Dairy, Piggery, Goatary, Poultry, Duckery, Rabbit, Koel, Fishery, Sericulture, Home Science, Bee Keeping etc, Processing Technology, Value added products, ITK.

Practical : Soil Testing and Fertilizer recommendation, Water sample test, Visit to Agriculture Farm, Dairy farm, Poultry Farm, Fishery hatchery, Ornamental fish farm, Sericulture, Bee keeping, Home science, collection of ITK.

Theory :

Group - A :

History of computers, computer hardware and external peripherals. Data representation in computer. Computer software and programming language. Software engineering and its application to Rural Development.

Group – B :

Advance programming using 'C' logic operations, computer networking and internet technology.

Practical : Hands on training of some fundamental application software.

ARD 412 DISSERTATION

300

To be done under the supervision of guide.

To be submitted in binding form and will be evaluated by External expert.

Everybody has to face Viva-voce after evaluation.

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Book List :

1. Text Book of Entrepreneurship and Rural Development
by Sagar Mondal & G.L. Ray
2. Extension Communication and Management
by G.L. Ray
3. Research Methods in Social Sciences and Extension Education
by G.L. Ray & Sagar Mondal
4. Participatory Planning in Rural West Bengal
by Prabhat Datta & Payel Sen
5. Women in Panchayats
by Prabhat Datta & Panchali Sen
6. Entrepreneurship
by R.V. Badi & N.V. Badi
7. Principal and Practice of Management
by Shyamal Banerjee
8. Business Ethics (Text & Cases)
by P.K. Ghosh
9. Improved Technologies of Sericulture
by Central Sericultural Research & Training Institute
Central Silk Board, Ministry of Textiles, Govt. of India, Berhampore – 742 101 (WB)
10. Hand Book of Animal Husbandry
by Indian Council of Agricultural Research
11. Hand Book of Animal Husbandry Extension
by Arunasis Goswami
12. Sustainable Rural Livelihood Process and Application
by S.K. Acharya, A. Biswas & A.N. Goutam
13. Hand Book of Agriculture
by Indian Council of Agricultural Research
14. Hand Book of Horticulture
Indian Council of Agricultural Research
15. A Text Book of Soil Science

- by D.K. Das
16. Agronomy (A Text Book)
by S.S. Singh
 17. Plant Breeding :
Principles & Methods by B.D. Singh
 18. Fruit Growing
by J.S. Bal
 19. Horticulture at a Glance
(Vegetable, Spices & Condiments)
by A.S. Salaria
 20. A Text Book of Animal Husbandry
by G.C. Banerjee
 21. Research Methodology
by Murthy
 22. Cost Accounting
by Pasha
 23. Financial Management
by Srinivasan
 24. Human Resource Mgmt
by Badi R.V.
 25. Human Resource Development
by Yuvaraj
 26. Marketing Management
Dutta & Dutta
 27. Cons. Beha. Adverti Mgmt
Dutta & Dutta
 28. Comp Based Numer. Stat. Tec
by Tyagi & Sharma
 29. Agricultural Economics
by Gupta P. K.
 30. A Hand Book of Organic Farming
by Sarma
 31. A Hand Book of Poultry Practice
by Wilson
 32. A History of Fishes
by Norman
 33. Beekeeping
by Philips
 34. Commercial Floriculture
by Prasad
 35. Fish Processing and Preservation
by Cutting
 36. Milk & Milk Products
by Winton
 37. Organic Farming for Sustainable Agriculture
by Dahama
 38. Techniques & Management of Field Crop Production
by Rathore
 39. Vermicomposting for Sustainable Agriculture
by Gupta
 40. Watershed Management for Sustainable Development