



**UNIVERSITY OF RAJASTHAN**

**JAIPUR**

**SYLLABUS**

**Post -Graduate Diploma  
In  
Project Planning  
&  
Infra Structure Management**

**Examination – 2021**

*Rej / Jaipur*  
**Dy. Registrar  
(Academic)  
University of Rajasthan  
JAIPUR**

①

**DEPARTMENT OF ECONOMIC ADMINISTRATION  
AND FINANCIAL MANAGEMENT**

**POST-GRADUATE DIPLOMA IN PROJECT PLANNING & INFRA-  
STRUCTURE MANAGEMENT**

EXAM 2021

**Scheme of Examination**

1. A Candidate must obtain for a pass atleast 25% marks in each individual paper and the monograph and 36% marks in the aggregate. The classification of successful candidates will be as follows:

First Division 60% of the aggregate marks

Second Division 48%

All the rest will be declared to have passed the examination. Every candidate shall be required to offer the following six papers and each paper of three hours duration carrying 100 marks.

2. There will be five questions in all. The candidates are required to attempt all the question. There will be one question from each unit with an internal choice (either/or).
3. Every candidate for the above diploma Examination shall be required to offer the following papers. Each theory paper shall be of 3 hours duration and carry 100 marks.

Paper – I	:	Project Formulation
Paper – II	:	Project Appraisal
Paper – III	:	Infra-Structure and Area Development
Paper – IV	:	Project Management and Investment
	:	
Paper – V	:	Project Work and Viva-Voce

**PAPER I : PROJECT FORMULATION**

Time : 3 hours

Max. Marks : 100

Unit I Defining the project: The Objective, identification and definition, project classification.

Parameters of project formulation: project formulation and planning, Project formulation and the entrepreneur, project formulation and financial institution, Project formulation and the Government

②

*Raj Nar*  
Dy. Registrar  
(Academic)  
University of Rajasthan  
JAIPUR

- Unit II Elements of Project Formulation Techniques.  
Feasibility Analysis : Project identification, Internal constraints. External constraints, Evaluation of the feasibility prospects of the project idea. Feasibility appraisal.
- Unit III Techno-Economic Analysis : Determination of project demand potential, Volume of output, Cost of production, present value and internal rate of return. Project Technology, Selection of Optimal Project -Strategy , the Techno -Economic appraisal.
- Unit IV Project Designing and Network Analysis: Project formulation and PERT/CPM techniques.
- Unit V Input Analysis : Identification of the nature of resources to be consumed by the project .Estimation of the Magnitude of the resource requirements and Evolution of the regular of resources.

**Books Recommended :**

1. Mattoo, P.K : Project Formulation in Developing Countries.
2. Halfert, E.A : Techniques of Financial Analysis.
3. United, E.A : Guidelines for Project Evolution.
4. David, S. Clifton David, E. Fyffe : Project Feasibility Analysis.
5. Bryce, M.D. : Industrial Development.
6. Soumelis, C.G. Project Evolution Methodologies and Techniques.
7. Soumelis, C.G : Project Evaluation Methodologies and Techniques.
8. United Nation : Evaluation of Industrial Projects.

**PAPER II - PROJECT APPRAISAL**

Time : 3 hours

Max. Marks : 100

- Unit I General aspects of Project appraisal and its significance. A brief history of Project appraisal. The presentation of project analysis.
- Unit II Financial and Economic Evolution of the Project : Project capital cost estimation, Project Financing, Project operating cost, operating revenue estimation- performa profit and loss statement. Performa balance sheet, performa fund and flow and cash flow analysis.
- Unit III Commercial profitability-net present value. Internal rate of return. pay-back period. simple rate of return. break even analysis. sensitivity analysis.
- Unit IV Social Cost Benefit Analysis-Historical development of cost-benefit analysis. Distinction between analysis and financial and economic through, Identification of costs and benefits Direct costs and benefit .Indirect costs and benefits-redistribution of income.
- Unit V Role of shadow Prices in project appraisal, Shadow prices of labour, Foreign exchange and investment. Estimation Social rate of discount.

(3)

*Ref / Jay*  
Dy. Registrar  
(Academic)  
University of Rajasthan  
JAIPUR

**Books Recommended :**

1. United Nations : Appraisal Guidelines for Development.
2. Sett. mac. Arthur : Project Appraisal.
3. H.P.J Henkensfeldt Jensen : Project Evaluation and Discounted cash flow.
4. Little, L.M.D and Mirrlees, J.T.A : Project Appraisal and Planning for Development Countries.
5. Adler, Hans. A. : Economic Appraisal and Planning for Development Countries.
6. Lal, D : Methods of Projects Analysis.
7. Mishan, E. J. : Cost Benefit Analysis.
8. Arnold, C. and other : Benefit Cost Analysis.
9. UNIDO : Manual for the preparation of Industrial Feasibility Study IDBI, 1980.
10. O.E.C.D. : Manual of Industrial Project Analysis in Developing Countries.
11. Matoo, P.K : Project Formulation in Developing Countries.

**PAPER III : INFRASTRUCTURE AND AREA DEVELOPMENT**

**Time : 3 hours**

**Max. Marks : 100**

- Unit I** Infrastructure : Meaning and Role of an Economic Development Manin Components-Roads. Railways, Energy supply, Water Supply. Sewerage. Police and Fire protection, Land use allocation Institutional finance and other Public services.
- Unit II** A General study of infrasture for the Indian,economy with special reference to Rajasthan.
- Unit III** Backward Area : General Criteria for backwardnes of and area Government policy for the development of backward areas -Concessions and incentives.A brief review of Pandey Committee and Wanchoo Committee Reports.
- Unit IV** Strategy for Industrial Area Development : Concept of Asreas Development. Basic requirement for Area Development Authority. Infrastructural Facilities and Their management of the Area Development Authority Area Development Significance of and its problems.
- Unit V** Development of Industrials Estates with special reference to Rajasthan Distinction between Industrial Area and Industrial Estate.  
Role of Development and Finance Corporations in Infrastructure and Area Development.

**Books Recommended :**

1. Klawssen, L.W.H : Area Economic adn Social Re-Development Guidliness for programmes.
2. Dagli, V. L. (e) :Infrastructure for the Indian Economics.
3. Ravkin, M.D. : Area Development for Indian Economics.
4. Mishra and Others : Regional Development Planning of India.
5. Planning Commission: Report of the Pandey Committee

4

*P. J. Nay*  
Dy. Registrar  
(Academic)  
University of Rajasthan  
JAIPUR

6. Govt. of India Planning Commission : Report of the Wanchoon Committee.
7. Randypandhay : Industrialization through Estates.
8. Somasekhara, N : The Efficacy of Industrial Estates in India.
9. Bhartiya, L.k. : Towards Rural Industrialization.

#### PAPER IV : PROJECT MANAGEMENT AND INVESTMENT

Time : 3 hours

Max. Marks : 100

- Unit I Project Management : General Principles of Management . Key Techniques of Management, System approach. Meaning of Project Management, necessity and benefits of Project Management, Difficulties of Project Management.
- Unit II Project Organisation : the project manager-responsibilities and authority. structure of Project Management. Task forces.
- Unit III Scheduling and Network models in Project Management. Milestone chart, Gantt chart, Network Project control system and performance Standard; Progress Reporting-cost analysis and control : project delays and problems of their preventions.
- Unit IV The Computer as a tool of Project Management.
- Unit V The Project Choice : Investment evaluation, the financial evaluation of the project : Traditional methods, Discounting methods and cost of capital.

#### Books Recommended :

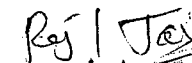
1. Baumgartner, J.S : Project Manager.
2. Baichta, A.M and Sharp, P.E.M. : System analysis and project Management.
3. Lock, D : Project management with CPM and PERT.
4. Modr. J.J and Philip, C.R : Project Management with PERT and CPM
5. Taylor, W.j. and Walting, T.F : Successful Project Management.
6. Taylor, W. J. And Walting, R.F. : Practical Project management.
7. Norbert L. Enrich : Management Planning-A Tsystem/Approach.

#### Paper-V : Project Work and Viva-Voce

Project work of about 5,000 words based on six weeks practical training indicating the candidate own experience with regard to cases / problem approved for the purpose by the Head of the Department. The candidates project work, along with the certificates from the supervisor/teacher concerned will be required to submit before commencement of theory examination.

Project Work	-	50 Marks
Viva-Voce	-	50 Marks

(5)

  
 Dy. Registrar  
 (Academic)  
 University of Rajasthan  
 JAIPUR