

Programme Project Report (PPR)

Name of Programme: Diploma in Management of Non-wood Forest Products (DMNWFP-16)

- a) **Programme mission and objectives:** The objective of diploma programme in Management of Nonwood Forest Products is to create awareness among the learners regarding the importance of non-wood forest products in growth and sustainable development. After successful completion of the programme, the learners will be:
- well-equipped with the knowledge of non-wood forest products
 - types of NWFPs and their livelihood implications
 - medicinal plants as NWFP and their importance
 - know the NWFP based industries i.e., paper and pulp; Cutch and Katha and other NWFP based small scale industries
- b) **Relevance of the program with HEIs Mission and Goals:** One of the mission of higher education particularly Open and Distance Learning Institutions is to provide greater opportunities of access to Higher Education with equity to all the eligible persons and in particular to the vulnerable sections. Further, region specific programmes of vocational nature play an important role in the sustainable development of the region. It provides not only knowledge but also help people to find new opportunities for their employment or income generation. Uttarakhand having rich diversity of species is a source of diversity of non-wood forest products. Many of which are high in demand in the market. The goal of this diploma programme is to aware people regarding economically important species and their nonwood forest products. Conducting this programme in ODL mode will help in dissemination of this knowledge to wider community residing in remote areas and far flung areas which are deprived of quality education due to their remoteness.
- c) **Nature of prospective target group of learners:** The target group of learners are the common men, farmers, forest stakeholders, SHG memebers, Van panchayat members and also those who are working professionals is such departments which are directly related or that directly deal with forest products.
- d) **Appropriateness of programme to be conducted in Open and Distance Learning mode to acquire specific skills and competence:** The Diploma programme in Non-wood Forest Product is one of its kind in forestry sector. The learners will be acquainted with the diversity of species and their

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useful products which can be utilized for their own sustenance and economic prosperity. Therefore, initiating such programme in ODL mode will help aspirants particularly residing in far-flung areas and those who belong to weaker sections, to acquire skill and knowledge on the subject area. The subject is more important particularly in case of Uttarakhand as the State has a diverse geographic conditions and agriculture is not very fruitful in hilly villages. It will provide them alternate options for livelihood generation. In order to communicate effectively with the learners University has adopted the following tools:

- self-instructional printed material
- audio / video cassettes and CDs
- audio-video programmes transmitted through FM Radio and EduSat
- face-to- face counselling at study centres by academic counselors
- reference library at study centre
- web based academic support
- assignments
- practical

e) Instructional design:

i) Curriculum design: The curriculum and Self Learning Material (SLM) has been developed by the Department.

Programme Structure

FIRST SEMESTER		CREDITS
COURSE CODE	TITLE OF THE COURSE	
NWFP 01	NWFP: Basics	4
NWFP 02	Medicinal and Aromatic Plants (MAPs)	4
NWFP 03	Practical / Field Work	4
SECOND SEMESTER		
NWFP 04	NWFP based industries by Prof Uma Malkani (unit 1-6)	4
NWFP 05	DMNWFP 05: Practical / Field Work	4
NWFP 06	Project work	8

Detailed Syllabus

NWFP 01- NWFP: Basics (Credits 04)

Block 1 Definition and Classification of NWFPs

Unit 1. NWFP: Status of NWFPs

Unit 2. Types of NWFPs

Block 2 Important NWFPs in India & Himalayan region

Unit 3. NWFP: Livelihood Implications

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Unit 4. Industrial uses of NWFP

Unit 5. Valuation, value addition and enterprise development

Block 3 Distribution and Utilization of NWFP

Unit 6. Fibre yielding plant species

Unit 7. Tannis and dyes

Unit 8. Oil seeds

Unit 9. Gums, resin and oleoresin

Unit 10. Edible plants

Block 4 Establishment of NWFP/Herbal Gardens

Unit 11. Regional and National NWFP gardens

Unit 12. Maintenance and management of NWFP gardens

Unit 13. Sustainable harvest of NWFPs and policy needs

NWFP 02- NWFP based industries (Credits 04)

Block 1: Paper and pulp

Unit 1. Materials

Unit 2. Process of paper making

Block 2: Cutch and Katha

Unit 3. Material and Extraction

Unit 4. Uses

Block 3: Small scale industries

Unit 5. Bamboos and cane

Unit 6. Pencil/ Aggarbatti/ sport goods/ spices

NWFP 03: Practical / Field Work

NWFP 04 Medicinal and Aromatic Plants (MAPs)

Block 1 Medicinal and Aromatic Plants-I

Unit 1. Traditional knowledge of MAPs

Unit 2. Sustainability and threats to MAPs

Block 2. Medicinal and Aromatic Plants-II

Unit 3. Medicinal Plant Resources of India

Unit 4. Collection and processing of MAPs

Block3. Medicinal and Aromatic Plants-III

Unit 5. Survey and assessment of MAPs

Unit 6. Sustainable harvest and management of MAPs

Unit 7. In-situ and ex-situ conservation of MAPs

NWFP 05: Practical / Field Work

NWFP 06 Project work (Survey, Identification and Characterization using traditional and integrating recent approaches. NWFP Inventorization and monitoring of potential area; Development of systematic database on NWFP; Case studies/ best practices of use of NWFPs)

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iii) **Duration of the programme:** Minimum duration of programme is one (01) year and maximum duration if six (03) years.

iv) **Faculty and support staff requirement:** One Permanent Faculty is available in Department of Forestry and Environmental Science, School of Science.

v) **Instructional delivery mechanism:** The programme will be offered in the Open and Distance Learning (ODL) mode. Guided self study using print (SLM) and electronic media; lecture/ counseling sessions; special counseling sessions and group interactions in Workshop at cluster level; debate on key environmental issues; self-reliant study activities; individual / group work assignment; Project work and excursion. The delivery material will include printed SLM, assignment, Face to face counseling at the designated Study Centre during Saturday and Sundays.

f) **Proceedure for admission, curriculum transaction and evaluation**

Eligibility: 10+2 Science

Fee structure: Rs. 2950 per semester

Evaluation norms: A learner will be evaluated through continuous evaluation (Assignments) and term end evaluation (Term end examination) at the end of semester. Continuous evaluation will carry 20% weightage whereas term end evaluation will carry 80% weightage

g) **Requirement of the laboratory support and Library Resources:** The programme does not require specific laboratory. Student will be given the required practical training in field. University has a library at its Head Quarters and also University has also created library resources at Study Centres which learners may utilize. Further, University also has a subscription of National Digital Library to provide the learners' with the ability to enhance access to information and knowledge of various courses of the programme.

h) **Cost estimates for development of the programme:** The SLM of the programme has been developed. The cost estimate will only include revision of the programme, BOS and other meeting expenses etc. An amount of Rs. 1,00,000/- will be required for the same.

i) **Quality assurance mechanism and expected programme outcomes:** The programme will help in the awareness of Non-wood forest products which the community can make use of sustainable. It will help in livelihood generation income enhancement of the villagers. Rural youth may make use of the knowledge in self employment through establishing small scale businesses based on NWFP. The Programme and SLM developed will be continuously upgraded and necessarily be revised after a period of 5 years.

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