



Yashwantrao Chavan Maharashtra Open University

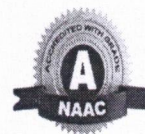
School of Sciences

(Formerly School of Architecture, Science and Technology)

ज्ञानगंगा घरोघरी

Minutes of the PAC (V152: M.Sc. Environmental Science)

Meeting held on 24.07.2023



The PAC Meeting for V152: M.Sc. Environmental Science {2023 Pattern} programme as per NEP 2020 of School of Sciences was held offline & online on Wednesday, 24-07-2023 at 11:30 AM at school meeting hall. Following members and invitees were present,

Sr. no.	Member name	Post	Attendance
1	Dr. Chetana Kamlaskar	Chairperson and Member	Present
2	Dr. Sunanda More	PAC member	Present
3	Prof. Dr. Sharad Khandelwal	PAC member	Present
4	Prof. Dr. Jaydeep Nikam	PAC member	Present
5	Dr. Gorakh Pondhe	PAC member	Present
6	Dr. Pravin Nalawade	PAC member	Present
7	Dr. Anita Handore	PAC member	Present
8	Dr. Bharat More	Academic co-ordinator[Chemistry]	Present
9	Mr. Manish Shingare	Academic co-ordinator[Physics]	Present
10	Mr. Tejaswi Kadam	Academic co-ordinator [Mathematics]	Present
11	Mrs. Shweta Kapade	Academic co-ordinator [Physics]	Present
12	Mr. Ghanshyam Patil	Academic co-ordinator [Chemistry]	Present
13	Mr. Rahul Nawale	Academic co-ordinator[Zoology]	Present

Dr.Chetana Kamlaskar, Chairperson and Member of the PAC (M.Sc. Environmental Science), first welcomed PAC members and introduced the members about the purpose of the meeting. During the meeting following items were discussed.

SN	Details of Items	Resolution
1	Agenda 1: To finalize and approve proposed Programme structure, Credit Distribution, Detailed syllabus and Evaluation pattern of all courses of V152: M.Sc. Environmental Science {2023 Pattern} as per NEP 2020	The PAC members unanimously finalised and approved the Programme structure and syllabus of proposed V152: M.Sc. Environmental Science {2023 Pattern} as per NEP 2020 (GR dated 16 May 2023) with programme structure and credit distribution are as follows – Credit distribution for mandatory courses (total 14 credits for semester 01 to 03 and total 12 credits for semester 04) – • 2 Theory with 4 Credits • 1 Theory with 2 Credits • 1 Practical with 4 Credits

Programme Structure

V152: M.Sc (Environmental Science) {2023 Pattern} as per NEP 2020

Year (2 Yr. PG)	Level	Sem.	Major				RM	OJT/FP	RP	Cum . Cr.					
			Mandatory	CR	Elective	CR									
I	6.0	I	EVS501: Environmental Science and Environmental Biology (T)	4	EVS506: Environmental Education, Policies & Legislation (T)	4	RES505: Research Methodology (T) 4 CR	-	-	22					
			EVS502: Natural Resources and Their Conservation (T)	4	OR										
			EVS503: Biodiversity and Conservation (T)	2	EVS507: Management of Water Resources (T)										
			EVS504: Lab Activities on EVS501, EVS502 & EVS503(P)	4	OR										
		II	EVS509: Environmental Chemistry (T)	4	EVS515: Environmental Sustainability (T)		-	EVS513:OJT (4 CR)	OR	EVS514:FP (4 CR)	22				
			EVS510: Environmental Geosciences & Computer Applications (T)	4	OR										
			EVS511: Herbal Wealth (T)	2	EVS516: Solid & Hazardous Waste Management (T)	4									
			EVS512: Lab Activities on EVS509 & EVS510 (P)	4	OR										
						8						4	4	-	44
			Exit option: Post Graduate Diploma {PGD 10 –EVS (44 Credits)} after Three Year UG Degree												

Year (2 Yr. PG)	Level	Sem.	Major				RM	OJT/ FP	RP	Cum .Cr.
			Mandatory	CR	Elective	CR				
II	6.5	III	EVS601: Environmental Monitoring and Energy Studies (T)	4	EVS606: Sustainable management of Biodiversity (T) OR	4	-	EVS605: Research Project: (4 CR)	22	
			EVS602: Instrumentation & Lab Techniques (T)	4	EVS607: Environmental Management (T) OR					
			EVS603: Green Chemistry (T)	2	EVS608: Renewable Energy Studies (T)					
			EVS604: Lab Activities on EVS601 & EVS602 (P)	4						
		IV	EVS609: Environmental Microbiology and Toxicology (T)	4	EVS613: Statistical Approaches & Modeling in Environmental Sciences (T) OR	4	-	EVS612: Research Project: (6 CR)	22	
			EVS610: Environmental issues & Human Health (T)	4	EVS614: Disaster Management (T) OR					
			EVS611: Lab Activities on EVS609 & EVS610 (P)	4	EVS615: Medicinal plants and their Applications (T)					
Cum. Cr. For 2 Years PG Degree			54		16		4	4	10	88
	2 Years- 4 Semester PG Degree in Environmental Science (88 credits) after Three Year UG Degree									

Note:

We have used syllabus of the MOOCs offered in SWAYAM Platform for the following two courses.

1. EVS515: Environmental Sustainability (MOOC)
2. EVS606: Sustainable Management of Biodiversity (MOOC)

These Courses are offered on SWAYAM Platform. Those who will complete these courses on SWAYAM Platform, for them Credit Transfer will be given in the corresponding courses EVS515 and EVS606 offered in V152: MSc EVS

SN	Details of Items	Resolution
2	Agenda 2: Finalization and approval for syllabus of Research Methodology course offered in all PG Programme by PAC members.	The PAC members unanimously finalized and approved for syllabus of Research Methodology course offered in all PG Programme by PAC members with Dr. Anita Handore (PAC members) suggested – • Some contents are to be added in unit 4.2– intellectual property rights (IPR). • Include content on start-up, Skill development, innovation and entrepreneurship Syllabus will be modified accordingly.
3.	Agenda 3: Finalization and approval for elective courses and their syllabus offered in M.Sc. Environmental Science Programme by PAC members.	The PAC members unanimously finalized and approved few new elective courses along with its content are as follows: 1. Management of Water Resources 2. Solid and Hazardous Waste management 3. Environmental management 4. Disaster management It is also resolved to authorize the Director of this School to enrich and update the elective courses from time to time as per the industry needs and University Policy decisions/norms.
4.	Agenda 4: Finalization and approval for On Job Training (OJT)/ Internship and Field Project (FP) and their guidelines offered in M.Sc. Environmental Science Programme by PAC members.	The PAC members unanimously approved the proposed On Job Training (OJT)/ Internship, Field Project (FP) and Research Project (RP) guidelines along with evaluation patterns. During discussion on the proposed OJT guidelines, • Dr. Anita Handore (PAC members) industrialist agreed to allow our learners to carry out their research projects as well as internship at Phytoelixer Pvt. Ltd. an innovation based Biotech Start-up Company. • Other members suggested consulting NGO and academic institutes for OJT/FP. It is also resolved to authorize the Director of this School to update the guidelines of On Job Training (OJT)/ Internship, Field Project (FP) and Research Project (RP) from time to time as per the industry needs and University Policy decisions/norms.
5.	General discussion:	An overall discussion of the above agenda was done briefly with active participation of all members. PAC members appreciated the efforts taken by the School in preparing programme structure and its syllabus as per NEP 2020 guidelines. Vote of Thanks was proposed by Mr. Manish S Shingare.

Dr. Chetana Kamlaskar
Director,
School of Sciences