

**UGC-HUMAN RESOURCE DEVELOPMENT
CENTRE**

DEVI AHILYA VISHWAVIDYALAYA, INDORE (M.P.)



Complete Report Of
28th Refresher Course in "Environmental Studies"
08th Jun. 2016 to 28th Jun. 2016

Director
Dr. Namrata Sharma

Contents

1. Participants List
2. Resource Person List
3. Time Table
4. Session Report
5. Grade List
6. Feedback Graph
7. Photo

UGC - HUMAN RESOURCE DEVELOPMENT CENTRE

Refresher Course in Environmental Studies

08/06/2016 to 28/06/2016

Participants List

SN	Person Name	College Name	Email ID	Mobile no.
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6	Pawan Singh	Dept. of Computer Science , Indra Gandhi National Tribal University , Amarkantak	pawankabir@gmail.com	8719888756
7	Shantilar Erwar	Govt. P.G. College Mandsuar	shantilalgeo@gmail.com	9926972288
8	Deepak Kumar Rana	HNB Garhwal University, Srinagar	drdkrana@gmail.com	9412137680
9	Seema Rawat	Dept. of Botany and Microbiology, HNB Garhwal University, Srinagar	seemamillennium@gmail.com	9997765718
10	Dr. Sabyasachi Dasgupta	Dept. of Forestry and Natural Resources, HNB Garhwal University, Srinagar	sdhnbgu@gmail.com	9997765718
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12	Sudesh Kumar	Dept. of Computer Science , Indra Gandhi National Tribal University , Amarkantak	skprajapat84@gmail.com	7869171069
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15	Dr. Ashok Rawat	Govt. College , Sailana , Ratlam	rawatmoti@gmail.com	9977024585
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17	Ganesh Rathor	Govt. College , Alote , Ratlam	ganeshrathor730@gmail.com	9893608783
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19	Anita Gupta	Saifia Arts and Commerce College , Bhopal	frontline_459@yahoo.in	9303044326
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22	P. Thangavel	Periyar University , Salem , Tamil Nadu	thanvel@gmail.com	9688222646

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Refresher Course in Environmental Studies

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Participants List

SN	Person Name	College Name	Email ID	Mobile no.
25	Ajay Singh Kusre	Swami Vivekanand Govt College , Lakhdon. Jabalpur	ajaysinghkusre89@gmail.com	9425384361
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27	Dr. Pramila Sadhav	Holkar Science College, Indore	pramila.sadhav@gmail.com	9755282422
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32	Dr. Arti Baurasi	Govt P.G. College Dhar	ramsingh1612@gmail.com	9893700660
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40	Dr. Sandhya Batwe	Govt. P.G. College, Khargone	batwe_sandhya@yahoo.com	9826732005
41	Prof. Sapna Malviya	BLP Govt P.G. College. Mhow	rohitax@gmail.com	9425379727

UGC - HUMAN RESOURCE DEVELOPMENT CENTRE, DAVV, INDORE

Refresher Course in Environmental Studies

04/05/2016 to 24/05/2016

Resource Person List

SN	Name of Resource Person	Contact Number	Email id
1	Dr. S.P. Singh	9424009418	spsanjali@gmail.com
2	Dr. Rubina Choudhary	9826617141	rubina_chaudhary@yahoo.com
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4	Dr. Anand Kar	9893231977	karlife@rediffmail.com
5	Mr. Asad Warsi	9827060693	ecopro@rediffmail.com
6	Dr. Afroz Ahmad	9425057646	afrozahmad@hotmail.com
7	Dr. Nisha Dube	9425060805	nishadube.law@gmail.com
8	Dr. Anjana Jajoo, Indore	9893789779	anjanajajoo@hotmail.com
9	Mr. Dharendra K Chavan	9424053719	dchavda@taru.co.in
10	Dr. R.N. Singh	9893660149	msingh.seema@gmail.com
11	Mr. Kishore Malviya , Nagpur	9823715451	
12	Prof. S K. Billore	9425380484	suresh_billore@yahoo.co.in
13	Mr. Sanjay Sharma	8447155205	
14	Dr. George V Joseph	9826874553	
15	Dr. Sadhana Rayalu	9890367588	
16	Dr. Kavita Gandhi	9822082027	kavita_kabra@yahoo.com
17	Dr. Ajay Verma	9617801687	
18	Dr. Pratibha Sharma	0731-2479508	

Refresher Course in Environmental Studies

TIME TABLE

Day/Date	10.30 am to 12:00 pm	12.00 pm to 1.30 pm	1.30 pm to 2.30 pm	2.30 pm to 4.00 pm	4.00 pm to 5.30 pm
Wednesday 08/06/2016	Registration	Inauguration	B R E A K	Dr. S.P. Singh	Dr. Gunawant Joshi
Thursday 09/06/2016	Mr. Gunawant Joshi	Mr. Gunawant Joshi		Mr. Asad Warsi	Mr. Asad Warsi
Friday 10/06/2016	Dr. Anand Kar	Dr. Anand Kar		Dr. Kavita Kabra	Dr. Kavita Kabra
Saturday 11/06/2016	Mr. Rajesh Dubey	Mr. Rajesh Dubey		Dr. Afroz Ahmad	Dr. Afroz Ahmad

UGC- Human Resource Development Centre, DAVV, Indore
Refresher Course in Environmental Studies

TIME TABLE

Day/Date	10.30 am to 12:00 pm	12.00 pm to 1.30 pm	1.30 pm to 2.30 pm	2.30 pm to 4.00 pm	4.00 pm to 5.30 pm	
Monday 13/06/2016	Dr. Nisha Dube	Dr. S. P. Singh	B R E A K	Dr. Anjana Jajoo, Indore	4.00 pm to 5.30 pm	
Tuesday 14/06/2016				Dr. S. P. Singh		Dr. Gunawant Joshi
Wednesday 15/06/2016				Dr. S. P. Singh		Mr. Dharendra K Chavda
Thursday 16/06/2016	Computer Lab	Dr. S. P. Singh		Computer Lab		
Friday 17/06/2016	Mr. R.N.Singh	Sadhana Maam				
Saturday 18/06/2016	Dr. V. J. Goerge				Dr. Afroz Ahmad	

UGC- Human Resource Development Centre, DAVV, Indore
Refresher Course in Environmental Studies

TIME TABLE

Day/Date	10.30 am to 12:00 pm	12.00 pm to 1.30 pm	1.30 pm to 2.30 pm	2.30 pm to 4.00 pm	4.00 pm to 5.30 pm
Monday 20/06/2016	Mr Asad Warsi		B R E A K	Dr. R.N. Singh	
Tuesday 21/06/2016	Dr. R.N. Singh			Dr. Anand Kar	
Wednesday 22/06/2016	Poster Presentation			Mr. Kishore Malviya , Nagpur	
Thursday 23/06/2016	Field Visit			Field Visit	
Friday 24/06/2016	Seminar			Mr. Praveen Karma	
Saturday 25/06/2016	Seminar			Prof. S K. Billore	

UGC- Human Resource Development Centre, DAVV, Indore
Refresher Course in Environmental Studies

TIME TABLE

Day/Date	10.30 am to 12:00 pm	12.00 pm to 1.30 pm	1.30 pm to 2.30 pm	2.30 pm to 4.00 pm	4.00 pm to 5.30 pm
Monday 27/06/2016	Test		B R E A K	Mr. Sanjay Sharma	
Tuesday 28/06/2016	Mr. Rajendra Singh	Mr. Rajendra Singh		Valedictory	

REPORT

वृत्तांत दिनांक: 8 जून, 2016

उद्घाटन समारोह

देवी अहिल्या विश्वविद्यालय में हो रही इस पुनर्रचर्चा पाठ्याक्रम के पहले दिन सुबह 11.00 के समय इस पाठ्याक्रम का उद्घाटन समारोह संपन्न हुआ। इस समारोह के प्रमुख अतिथि विश्वविद्यालय के कुलपती डॉ. नरेंद्र कुमार धाकड़ रहे। समारोह में सभी उपस्थित लोगों का स्वागत और पाठ्याक्रम आयोजन का हेतु मानव संसाधन विकास केंद्र की संचालिका डॉ. नम्रता शर्मा ने बताया। सभी उपस्थित सन्माननीय के हाथों देवी सरस्वती की प्रतिमा पूजन से समारोह का औपचारिक उद्घाटन किया गया। उसके बाद कुलपती महोदय ने सहभागी प्रोफेसरों को संबोधित किया। संबोधित करते समय उन्होंने कहा की आज पर्यावरण जागृती की बहुत जरूरत है। अघ्यापक ही एक ऐसे लोग है जो हजारों छात्रों से जुड़े रहते है। तो बदलाव लाने में, लोगों की जागृती करने में वे अच्छे योगदान दे सकते है, इसलिए कोर्स का आयोजन किया है। अंतमें उन्होंने सभी को आषीर्वाद भी दिया और कोर्स की यशस्वीता के लिए शुभकामनाएं दी। समारोह का आभार प्रदर्शन डॉ. भूमेश गुप्ता जी ने किया। इसके बाद कोर्स समन्वयक डॉ. रुबिना चौधरी जी ने पुरे कोर्स के बारे में जानकारी दी। कोर्स के दौरान पुरे दिन के कार्यक्रम की योजना बताई।

सत्र : 1

साधन व्यक्ति – डॉ. एस. पी. सिंग

दोपहर के बाद कोर्स का पहला सत्र सुरु हो गया। इस सत्र के साधन व्यक्ति डॉ. एस. पी. सिंग रहे। उन्होंने पर्यावरण क्या होता है इसके बारे में जानकारी दे दी। हमारे आसपास की सभी चिजे पर्यावरण का अंग कैसे रहती है यह बताया। जल्दी विकास करने की मनोकामना से हम सभी ने पर्यावरण की कैसे हानी की ये बताया। उन्होंने ग्रिन बिल्डिंग के बारे में भी जानकारी दे दी। पर्यावरण में जो हम बिघाड कर रहे है उसका हल तो उसी पर्यावरण में मिलेगा यह बात भी उन्होंने कह दी। पर्यावरण में बिघाड लाने वाले घटक हम कैसे कम कर सकते है इस पर भी उन्होंने ध्यान दिया।

सत्र : 2

साधन व्यक्ति – गुणवंत जोशी

पहले दिन के दुसरे सत्र में हमारे साधन व्यक्ति रहे थे गुणवंत जोशी, जो मध्यप्रदेश प्रदुषण नियंत्रण मंडल के भूतपूर्व सदस्य रहे थे। जोशी जी ने हवा प्रदुषण के बारे में जानकारी दी। मानव को हवा की बहुत जरूरत है, लेकिन मुफ्त में मिलने के कारण हम हवा के बारे में जादा सजग नहीं है। हर दिन एक आदमी को लगभग 11,000 लिटर हवा की जरूरत होती है। अगर हवा की इतनी जरूरत है तो हवा प्रदुषण मानव को कितना नुकसान पहुंचा सकती है इसके बारे में बताया। भोपाल गैस दुर्घटना, नामोटाणे दुर्घटनाओं के बारे में जानकारी देते हुए कहीं की इसी हादसे के कारण भारत सरकार को हवा प्रदुषण के बारे में कानून करना पड़ा। सरकार ने 1984 में हवा प्रदुषण कानून बनाया जिसे एअर ऐक्ट कहते है। इस कानून के बारे में भी उन्होंने जानकारी दी।

निलेश केदारी शेळके

प्रतिभागी क्र - 01

डॉ. घाळी कॉलेज, गडहिंग्लज, (महाराष्ट्र)

28th Refresher Course in Environmental Studies (ID)
June 08th – 28th, 2016
Human Resource Development Centre (HRDC)
Devi Ahilya Vishwavidyalaya, Khandwa Road Campus, Indore

REPORT

Date: 09/06/2016

Session: Morning

Topic: Environment Laws in India

Resource Person: Mr. Gunwant Singh, (Retd. Chief Commissioner, M.P. State Pollution Control Board)

On the second day of the course, the participants were enlighten by very informative and knowledgeable lecture by Mr. Joshi, who has a long working experience as scientist with specialization in air pollution. Mr. Joshi elaborated about major legal provisions and their historical background to prevent pollution like Ozone Depleting Substances (Regulation and Control) Rules, 2000 (an international treaty, India is one of the signatories), Municipal Waste Management and Handling Rules, 2001, Public Liability (Hazardous) Insurance Act 1986 etc.

Apart from this, the resource person also throws light on a new study branch i.e. Green Chemistry; Nature-friendly chemistry.

By quoting from the literature side like Temples of Tombs, The Silent Spring and others, Mr. Joshi mentioned about the relevance of study of Science of Nature for the present society.

In the last part of the session he answered the questions of the participants on some of the daily life issues e.g. RO drinking water, roof water harvesting system, easy way to check level of air pollution at places nearby home etc. The conclusion was 'dilution is the solution of Pollution'

Report Prepared by:

1. Dr. Megha Pandey
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Vikram University, Ujjain.
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Mob.-09425915159

REPORT

Date: 10th June, 2016

(Morning Session)

Topic – Ecosystem Concept

Resource person: Prof. Anand Kar

The session started with introduction of resource person by course participant Dr. Vinod K. Barote.

Prof. Anand Kar impressively touches the subject concept of ecosystem through introduction. First he asks the question what is ecosystem? He simply defines the ecosystem in bi language. In introductory part he touches to the part of ecosystem at base level to understand the ecosystem like cell, tissue, organs, organ system and individual etc.

The ecosystem is divided into two parts

- 1) Biotic
- 2) Abiotic

He explain in detail these two points and things arises under this point like temperature, light, water, soil, food, inorganic and organic compound in detail. Later this he explain most important phenomena relate to light that is photoperiod. Photoperiod is nothing but the period of exposer starting from sun rise to sun set.

In second session sir delivered lecture on biodiversity in this lecture he explain in detail the role of flora and fauna.

Finally the session is open for the discussion on serious issue of environment. So both the lecture is most energetic which helps to aware about the environment. At last the vote of thanks by Mr. S. S. Parihar.

Report Prepared by:

1. Dr. Vinod K. Barote
2. Mr. S.S. Parihar
S.D. College, Soegaon.

28th Refresher Course in Environmental Studies (ID)
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REPORT

Date: 11th June, 2016

(Morning Session)

Topic – Green Technology for Glorious India

Resource person: Prof. R.K. Dubey, Director, UGC-HRDC, Jodhpur

The day begun with the brief profile reading of Prof. R.K. Dubey by Dr. Deepak Kumar Rana. After the profile reading, Dr. Rana welcome resource person. Prof. R.K. Dubey gave his talk on the topic "Green Technology for Glorious India". He emphasizes on Unnat Bharat. He explained very well pollution, climate change, organic farming, green technology and environment principles and education. At the end of the session, Dr. Shantilal Erwar extended vote of thanks.

This session was very interactive and valuable to enhance the knowledge of the all the participants.

Report Prepared by:

1. Dr. Deepak Kumar Rana, HNB Garhwal University, Srinagar (Garhwal)
2. Shantilal Erwar, Govt. P.G. College, Mandsaur

28th Refresher Course in Environmental Studies (ID)
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REPORT

Date: 11th June, 2016

(Afternoon Session)

Topic – Policy Approach for Environmental Management and Sustainable Development

Resource person: Dr. Afroz Ahmad, Member of Environment & Rehabilitation,
Narmada Control Authority, Govt. of India),

Dr. Afroz Ahmad, a well known environmental scientist and development administrator discussed the various aspects of physical and biological environment. 40% of global economy is dependent on biological products and processes. Biodiversity is a pre-condition for sustainable development. Population growth, excessive resource consumption, habitat destruction, institutional conflicts and international debts etc. are the factors responsible for loss of biodiversity. Forest covers 21.62% of geographical area in India. The total carbon stock in India's forests is 7328 million tonnes. Deforestation leads to lack of production, soil erosion and extinction of species. In India 45% of land is degraded. India has also come in water stress category. Urbanization, agricultural intensification, mining, deforestation, wetland destruction and excessive use of pesticides etc. are the factors responsible for water pollution. He then discussed greenhouse effect. Growing cities, increase in vehicles, rapid economic development, higher level of energy consumption etc. are increasing air pollution. The climatic changes are having impacts on human health. Dr. Ahmad then discussed the conflicts on water at aquifer level, interstate level and inter countries level. Multidisciplinary river basin authorities should be established. There should be participation of youth and women for water resource management. There should be timely resolution to avoid conflicts of interstate river disputes. He discussed about the Narmada river. He emphasized upon the interlinking of rivers wherever feasible. Pond and lakes should be restored and rain harvesting systems should be developed. He also discussed the economic, social and environmental impacts of disaster. Flood, drought, desertification and climatic variability are resulting serious impediments to the economy of the country. Environment should be adopted as religion. There is a need for establishment of sustainable society.

The lecture was very informative and made us aware that local participation in conservation of environment is much more important compared to policy making.

Report Prepared By:

1. Dr. Seema Rawat (H.N.B. Garhwal University, Srinagar, Garhwal, Uttarakhand)
2. Dr. Rajesh Masatkar, Govt. Degree College, Nainpur, Mandla.

28th Refresher Course in Environmental Studies (ID)
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REPORT

Date: 13th June, 2016

(Morning Session)

Topic – Environmental Laws and Issues

Resource Person: Prof. Nisha Dubey, Dean & Head, Department of Law, Barkatullah University, Bhopal

Prof. Nisha Dubey, Dean & Head, Department of Law, Barkatullah University, Bhopal was the resource person. She was Former VC of Barkatullah University, Bhopal. Her research area is in the field of Law especially in basic Constitution law, Woman law and laws related with environmental components.

Prof. Nisha Dubey delivered the lecture on Environmental law and Issues. In the First phase, she has discussed about basic definition of Constitution, and the fundamentals laws and rights to live with dignity. She also further discussed the urgency for bringing the laws and rules to protect the biotic and abiotic components of the environment for developing our country with sustainable way. Prof Dubey has also talked about fundamental rights into the form of environment and the more emphasis on Article 21 of the constitution of India states that "No person shall be deprived of his life or personal liberty except according to procedure established by law." in which, explain about in detail

- Equality
- Right to Freedom
- Right to education
- Right to health
- Right to Religion
- Constitute of Remedies

Then after into the second phase, she was talked about Article-32 into the form of rights of death. In this session, she also discussed about some specific cases like Ratlam case and M C Mehta Cases which are related to protection of Environment and right to live with dignity, healthy atmosphere, and cleanly environment in the society. She focused on importance of Article 48-A, in which, she says specific provision for an environment and also directive principal of state policy to solve the local issues related to environment. At the end, Prof. Dubey has discussed about key points of environmental awareness and what are our fundamental duties and rights, individually to develop our great nation with sustainable approach.

Overall, it was quite interesting and Fruitful session and it enhanced our knowledge of Environmental Studies and making awareness the fundamental rights to live in this planet with dignity.

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Human Resource Development Centre (HRDC)
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Report Prepared by:

1. Dr. Bishwjit Maji, Assistant professor, Department of Chemistry, IGNTU, Amarkantak, M.P.
2. Mr. Sudesh Kumar, Assistant professor, Department of Computer Science, IGNTU, Amarkantak, MP

प्रतिवेदन

वार –सोमवार

दिनांक 13.06.2016

(सत्र –द्वितीय)

विषय – पेड़ पौधे एवं तापमान

रिसोर्स परसन – डॉ. अंजना जाजू, स्कूल ऑफ़ लाईफ़ साइंस, देवी अहल्या विश्वविद्यालय, इंदौर

आज दिनांक 16.06.2016 को सायं कालीन सत्र में रिसोर्स परसन डॉ. अंजना जाजू, स्कूल ऑफ़ लाईफ़ साइंस, देवी अहल्या विश्वविद्यालय, इंदौर म.प्र. मुख्य वक्ता रही है। जिनका परिचय डॉ. प्रेम चंद ने कराया। डॉ. जाजू ने पारंब में मेजर एवं माइनर रिसर्च प्रोजेक्ट के बारे में बताया। जिससे समस्त प्रतिभागी लाभान्वित हुये। तत्पश्चात् उन्होंने पेड़ पौधे एवं तापमान पर अपना व्याख्यान प्रस्तुत किया जिसमें उन्होंने बताया कि पेड़ पौधे और तापमान पर्यावरण के लिये कितने महत्वपूर्ण है। जिनके बीना पर्यावरण का संतुलन एवं जीवों की कल्याण नहीं की जा सकती है। अन्त में 41 प्रतिभागियों को दो समूह में विभाजित कर स्कूल ऑफ़ लाईफ़ साइंस में विजित कराया जिसमें रिसर्च में उपयोग में आने वाले उपकरणों की जानकारी दी वहाँ उपस्थित रिसर्च स्कॉलर ने पेड़ पौधों की परिस्थियों पर प्रयोग कर समस्त प्रतिभागियों को अवगत कराया।

अन्त में आभार डॉ. अशोक रावत ने माना।

द्वारा —

1. डॉ. प्रेम चंद, राष्ट्रीय विधि विश्वविद्यालय, दिल्ली।
2. डॉ. अशोक रावत, सहा. प्राध्यापक, भूगोल, शा. महाविद्यालय, सैलाना

28th Refresher Course in Environmental Studies (ID)
June 08th – 28th, 2016
Human Resource Development Centre (HRDC)
Devi Ahilya Vishwavidyalaya, Khandwa Road Campus, Indore

REPORT

Date: 14th June, 2016

(Morning Session)

Topic – Policy Approach for Environmental Management and Sustainable Development

Resource person: Dr. Afroz Ahmad

I am thankful to Dr Namrata Sharma, Director, UGC, HRDC, Indore for providing the opportunity to be part of refresher course scheduled through June 8-28, 2016. The participants in the refresher course were from different disciplines like science, social science, humanity and literature. They were from Delhi, Madhya Pradesh, Maharashtra, Tamilnadu Uttarakhand and Uttar-Pradesh. Also I am thankful to the course coordinator Dr Rubina Chaudhary for giving me chance to introduce the resource person on June 14, 2016 evening session.

On that day Dr Gunwant Joshi, Former Chief Chemist, Madhya Pradesh Pollution Control Board (MPPCB), was the resource person. He is an eminent personality in the field of environmental studies. Dr Joshi started his career as lecturer and then joined MPPCB. Thus he carries amalgamation of both academic and administrative services.

Dr Joshi delivered two talks in this session. First on water issues and second on water conservation resource. In the first lectures he advocated the importance of water in the environment and society. He pointed out the conflict between the states and countries over water. Further, he discussed about the availability of water per capita with the increasing population in India and world. He emphasized on the high use of water and low industrial output in India which is measurable. Furthermore, he told that the saving of water is the best solution not even 3R (Reduce, Reuse and Recycling). So the take home message of first lecture was save water and save this planet.

In the session talk, he presented very interesting facts regarding the biodiversity conflict and economic policies. He explained about the Dodo and a plant *Calveria major* in Mauritius. He explained elaborately regarding the connection between these two species. Actually, Dodo were very slow learning animals in Mauritius and killed by the travelers during their stay in Mauritius. Eventually the Dodo were extinct from Mauritius. After long years, scientist discovered an interesting fact that all the plants of *Calveria major* were more than 200 years old, still they were flowering plants but not a single plant of young age were seen.

It was very unusual in case of flowering plants. Researchers suggest that Dodo use to eat hard coat fruit of *Carveia major*, crushed in their gizzard and passes through fecal metal and eventually seedlings developed into trees. As Dodo were extinct around 200 years ago so that new plants were not grown. By explaining this example he suggested we may not know many interlink between species so we should save our biodiversity.

Dr Joshi explained regarding the biodiversity destruction and economic policies. How USA

28th Refresher Course in Environmental Studies (ID)
June 08th – 28th, 2016
Human Resource Development Centre (HRDC)
Devi Ahilya Vishwavidyalaya, Khandwa Road Campus, Indore

destructured maize varieties in Mexico by providing low cost seed of maize to farmers of Mexico. In the long run the economy of Mexico is ruined. Further, he explained ecological footprints and how developing nations have more ecological footprints. The vegan foods have low ecological footprints so preference of these foods may be useful to environment.

Report Prepared by:

1. Dr Vijay Paramanik, MNASc, IGNTU, Amarkantak (MP)
2. Anita Gupta, Safia College, Bhopal

28th Refresher Course in Environmental Studies (ID)
June 08th – 28th, 2016
Human Resource Development Centre (HRDC)
Devi Ahilya Vishwavidyalaya, Khandwa Road Campus, Indore

REPORT

Date: 14th June, 2016

(Evening Session)

Topic – Sustainable Development and Renewable Energy

Resource person: Dr. S. P. Singh

On 14th June, 2016, in the first session of Refresher Program Dr. S. P. Singh was the resource person. Introduction was given by Dr. Masheer Ahmed Khan, School of Pharmacy, DAVV, Indore. Dr. Singh is Prof. & Head of School of Energy and Environmental Studies. DAVV, Indore. The topic of the session was "Sustainable Development and Renewable Energy" under this many policy issues were covered on environmental studies. He also covered present issues of development including economic, materialistic. Physical comfort and competitive. He has also thrown light on resource required for development like land, energy, water, air, manpower and investment. Then he has also covered issues related to sustainable development and its path. Finally concluded with Renewable energy including constraints also discussed on resource required on biomass generation and systems.

Vote of thanks extended by Dr. Ganesh Rathore.

Report prepared by:

1. Dr. Masheer Ahmed Khan, School of Pharmacy, DAVV, Indore
2. Dr. Ganesh Rathore

28th Refresher Course in Environmental Studies (ID)
June 08th – 28th, 2016
Human Resource Development Centre (HRDC)
Devi Ahilya Vishwavidyalaya, Khandwa Road Campus, Indore

REPORT

Date: 15-06-2016

(Morning Session)

Topic – Beema Bamboo Plantation

Resource person: Dr. S. P. Singh

Day 8th, Report for Morning Session 15/06/16 Day 8th first session was started at School of Energy & environmental Studies at 10.30 am. Welcome and Introduction of speaker (for both session) Dr. S.P.Singh, Professor & Head School of Energy & Environmental Studies, DAVV, Indore was proposed by Dr. Sayed Rizwan.

In First session Dr. S.P.Singh spoken on the topic 'Beema Bamboo Plantation'. He covered various points such as captive energy plantation, plantation to green energy, advantages of Beema Bamboo & etc. All participants listen carefully and patiently. First session was concluded at 12.00 noon. Then the Tea Break was taken. All the participants in the house enjoyed with tea. For session -II the topic was 'Renewable Energy System- On Sight Lecture'. All the participants were distributed in two groups. In first half, Mr. R.S.Pawar, who was coming from Ministry of New & Renewable Energy, Biogas section, shown us biogas working and its all other details. He discussed all issues related to Biogas plant erection and its application. He also demonstrated Vermi Compost bed as biofertilizer. In second half at the roof of the department, Dr. S.P.Singh Sir demonstrated us working and application of Solar Heater, Solar cooker, box type solar cooker and etc. Vote of thanks was proposed by Dr.H.M.Pawar. In this way session- II was concluded at 1.30 pm. Later the time for lunch.

Report prepared by:

1. Dr. Sayed Rizwan
2. Dr H.M. Pawar.

REPORT

Date: 15-06-2016

(Evening Session)

Topic: Integrated Approaches For Sustainability Of Urban Water Sources

Resource Person: Mr. Dharendra K. Chavda, Environmental Consultant, Dhara Aqua Consultancy, Indore

In the second session on 15-06-2016, Dr.P.Thangavel, Periyar University, Salem, Tamil Nadu welcomes the resource person Mr. Dharendra K. Chavda. He was delivered a lecture on sustainable utilization of water resources with special reference to Indore city, Madhya Pradesh. In his lecture, he emphasised three stages of water availability in the natural water cycle, sources of urban water systems and reasons for water scarcity in urban ecosystems. Further, he highlighted for urban water management practices like water reuse, changing industrial processes, floodplain/recharge zoning, dual water systems, desalination plants, efficiency in automated control of water (smart system), landscaping regulations, government monitoring and intervention, community participation and stakeholder engagement. During the session, the entire participants of 41 members has been divided into four groups and discussed on four issues such as (i) water systems (ii) water sources (iii) wastewater and (iv) water conservation strategies. At the end of the session, group leader/member has proposed and presented for the above four key issues and solutions to resolve the urban water management systems and sustainable utilization of water resources (The Group Discussion Reports also enclosed below). In general, the session was potentially useful for the participants to identify the current issues to resolve the water scarcity.

Report Prepared By:

1. Dr. P. Thangavel, Department of Environmental Science, Periyar University, Salem, Tamil Nadu
2. Ajay Singh Kusre, Swami Vivekanand Govt. College, Lakhdon, Jabalpur

GROUP 1 DISCUSSION REPORT

Topic: Water Conservation Strategies

Rahul K Kamble, Presenter, Sardar Patel College, Chandrapur, Maharashtra

Problem: Supply of Water of Narmada River to Indore (70 km)

Issue 1: Leakage and Contamination

1. Geographical Information System (GIS) and remote sensing should be developed.
2. 24x7 Maintenance of water in the pipe lines which lead to maintenance of pressure inside pipeline and protect the contamination to get enter inside the pipelines.
3. Local channels should be separated from main lines
4. Regular maintenance should be carried out

Issue 2: Alternative sources needed

1. Considering future population increase and environmental crisis
2. Local water bodies should be rejuvenated
3. Rainwater harvesting should be carried out
4. Maintenance of catchment area

Group members:

1. Dr Masheer Ahmed Khan, co-ordinator
2. Ms Sangeeta Dongre
3. Dr Meenu Varshney
4. Shrikrushna Parihar
5. Ajay Singh
6. Anita Gupta

GROUP – 2 DISCUSSION REPORT

Topic: Water Conservation Strategies

Presenter: Dr. P. Thangavel, Department of Environmental Science, Periyar University, Salem, Tamil Nadu

In the Session Two of 28th Refresher Course in Environmental Studies on June 15, 2016, Mr Dharendra Kumar Chavda from Dhara Aqua Consultancy, Indore has given a task to discuss about water conservation in the city of Indore. Each group has discussed two issues on water conservation and suggested some solutions to solve these issues.

The following two issues for water conservation were pointed out by our group:

a) Excess use of water: The excess use of water could be controlled by providing water on per capita basis, using water meter and exposing taxes for using excess water. The dual water connection (one of drinking water and other for household things) could be useful to minimize excessive use of water. Awareness program regarding water use in the school and community on the eve of World Water Day celebrated on March 22 every year is also useful.

b) Regulation in water use: This could be implemented by designing new city plan, green buildings concept, 'sensor and App based' water use. Further, it could be implemented by reusing of sewage water for house hold and installation of rain water harvesting and recharging facility in every building. Based on 3R principle, the recycling water should be the only option for industrial applications such as industrial operations and plantations in the industrial premises to abate the pollution through phytoremediation.

By implementing above steps, we shall be able to regulate water uses in metro cities like Indore.

Group Members

1. Dr. Vijay Paramanik, PhD, MNASc (Group Leader)
2. Dr. P. Thangavel (Presenter)
3. Dr. Seema Rawat
4. Dr. Anita Chauhan
5. Dr. Sapna Malviya
6. Dr. Megha Pandey

GROUP – 3 DISCUSSION REPORT

Presenter: Dr. Sushil Maderiya

Drinking Water Problem in Indore City

Group no 3 identified problem of drinking water in the Indore city and framed two issues, namely:

1. **Transportation of drinking water-** Indore City has no source of water except get water from the rivers and dams; like Narmada, Indira Sagar Dam but due to the expansion and exceeding the population of Indore city, these water sources are not supposed to fulfill its day to day water requirement. But during the discussion following recommendations and suggestions was came:
 - a. Before rain all the water sources should mandatorily clean and maintain.
 - b. Portability of water should be monitored.
 - c. Adopt RRR (Recycle, Reduce and Reuse)
 - d. Domestic and industrial water should be treated and reuse for gardening flushing.
 - e. Made mandatory Rain water harvesting.

2. **Industrial Pollutants:** Group identified many causes of water pollution and industrial pollutant is one of them. The following recommendations and suggestions were made during the discussion:
 - a. Effluent treatment shall be made regular by the industry.
 - b. Use root zone technique.
 - c. Hazardous waste must be handled and disposed off.
 - d. Zero discharge method should applicable sincerely.

By implementing above steps, we shall be able to regulate water uses in metro cities like Indore.

Group Members

1. Dr. Sushil Maderiya (Presenter)
2. Dr. Prem Chand
3. Dr. Sabyasachi Dasgupta
4. Dr. Dharendra Kerwal
5. Dr. Vinod K. Bhrote
6. Dr. Deepak Kumar Rana
7. Dr. Mona
8. Dr. Sandhya Batwe
9. Mr. Nilesh K. Shelake
10. Dr. H.M. Pawar

28th Refresher Course in Environmental Studies (ID)
June 08th – 28th, 2016
Human Resource Development Centre (HRDC)
Devi Ahilya Vishwavidyalaya, Khandwa Road Campus, Indore

GROUP – 4 DISCUSSION REPORT

Presenter: Dr. Rizwan Ali

Team leader: Dr. Megha Pandey

It was asked this four member group to reduce and utilize the liquid waste generated in Indore city Long discussion among the group and outcome is as such..

1. Fix all taps which are leaks.
- 2.. Avoid bathing under shower instead use bucket and mug for it.
- 3.Avoid flushing lavatories instead use flushing it by manually.
- 4.Do not allow RO machines to fix in house .Use treated corporation water.
- 5.Liquid generated from all sources should be analyzed physico-chemically and biologicaly. according to the result it is to be treated.

Group Members

1. Dr S Rizwan A
2. Dr. Megha Pandey
3. Dr. Rajesh Mastakar
4. Dr. Shantilal Erwar
5. Dr. Rajesh Sakwar
6. Dr. Gopal Kharadi
7. Dr Ganesh Rathor
8. Dr. Ashok Rawat
9. Prof. Pawan Singh
10. Dr. Umesh Kakeshwar

28th Refresher Course in Environmental Studies (ID)
June 08th – 28th, 2016
Human Resource Development Centre (HRDC)
Devi Ahilya Vishwavidyalaya, Khandwa Road Campus, Indore

REPORT

Date: 16-06-2016

(Evening Session)

Topic: Green Buildings

**Resource person: Dr. S. P. Singh, Head, School of Energy and Environmental Studies,
DAVV, Indore**

In the second session on 16th June, 2:30pm, Dr. Meenu Varshney welcomed the resource person Dr. S.P. Singh. The title of the talk delivered entitled GREEN BUILDINGS. Based on energy consumption and climate zones in India five main concepts of green buildings were introduced and discussed. They are namely material and resource selection, sustainable site development, indoor environmental quality, energy and water efficiency. Need of comprehensive approach to sustainable design, construction and operations required urgently to mitigate environmental impact, rising energy demand and construction.

The lecture was very interesting, informative and of applied importance in daily life.

Report Prepared by:

1. Dr. Meenu Varshney, SOP, DAVV, Indore

28th Refresher Course in Environmental Studies (ID)
June 08th – 28th, 2016
Human Resource Development Centre (HRDC)
Devi Ahilya Vishwavidyalaya, Khandwa Road Campus, Indore

REPORT

DATE-17 JUNE 2016

SESSION- Morning

Topic - "Is Biomass A Sustainable Fuel To Save Environment"

Resource Person- Dr. R. N. Singh (Professor, School of Energy & Environment Studies)

Prof. R.N. Singh gave his talk on biomass based technology. He discussed about combustion, gasification, pyrolysis, bio-methanation, composting, alcoholic fermentation, etc. Thermoconversion of biomass –biodiesel leading to oxygenated organic compound. Derive from broad variety of resources such as plant oil, animal fat and cooked oil. Biodiesel production process through flow chart was outline and elaborated.

Report Prepared by:

1. Dr. Meenu Varshney
2. Dr. Prem Chand

28th Refresher Course in Environmental Studies (ID)
June 08th – 28th, 2016
Human Resource Development Centre (HRDC)
Devi Ahilya Vishwavidyalaya, Khandwa Road Campus, Indore

REPORT

DATE-17 JUNE 2016

SESSION- Evening

Topic – Plasmonic Systems For Energy and Environmental Application

Resource Person- Dr. Sadhna Rayalu, Senior Principle Scientist, Neeri

The second session in the morning was addressed by Dr. Sadhana rayalu, senior principal scientist and head of environmental material division of national environmental engineering research institute (neeri), nagpur, maharashtra. She welcomed by dr. Mona yadav (dev sanskriti vishwavidyalaya, haridwar, uttarakhand). She has 160 sci publications and 30 patent with 25 years of teaching experience.

Her lectures topic was on plasmonic systems for energy and environmental applications with solar energy and water uses, in which the focus was on solar energy and five important solar equipments vital in present scenario of energy conservation. She explored the efforts and changes made to increase the performance of equipments as to fulfill the need of time in their department. Her lecture also included the information of other important dimensions and various sub components of solar energy useful to the participants.

On behalf of all participants dr. Pramila sadhav, assistant professor, department of botany, govt. Model autonomous holkar science college, indore expressed vote of thanks for her interesting and interactive session with full of knowledge.

28th Refresher Course in Environmental Studies (ID)
June 08th – 28th, 2016
Human Resource Development Centre (HRDC)
Devi Ahilya Vishwavidyalaya, Khandwa Road Campus, Indore

Date 18 June, 2016

Session: Morning

Topic- Overview of Disaster Management

Resource person- George V. Joseph, Dy. Director ,Disaster Management Institute, Bhopal.

In morning session of refresher course in Environment studies Dr. Gopal Singh Kharadi welcome to Dr. George V. Joseph, Dy. Director, Disaster Management Institute, Bhopal. Dr. Joseph has delivered his lecture on Topic-Overview of Disaster management. He told about what is disaster?, What is Vulnerability? Disaster Management Act 2005 etc. He said that there is no country that is immune from disaster, though vulnerability to disaster varies

Any disaster can interrupt essential services, such as health care, electricity, water, sewage/garbage removal, transportation and communications. The interruption can seriously affect the health, social and economic networks of local communities and countries. Disasters have a major and long-lasting impact on people long after the immediate effect has been mitigated. Poorly planned relief activities can have a significant negative impact not only on the disaster victims but also on donors and relief agencies. So it is important that physical therapists join established programmes rather than attempting individual efforts.

Local, regional, national and international organisations are all involved in mounting a humanitarian response to disasters. Each will have a prepared disaster management plan. These plans cover prevention, preparedness, relief and recovery.

The lecture was very informative and meaningful for participants. After lecture participants asked their queries. At the end of session Dr. Dharendra Kerwal has given vote of thanks to Dr. George on the behalf of all participants.

Report prepared by-

1. Dr. Dharendra kerwal
2. Dr. Gopal singh Kharadi

28th Refresher Course in Environmental Studies (ID)
June 08th – 28th, 2016
Human Resource Development Centre (HRDC)
Devi Ahilya Vishwavidyalaya, Khandwa Road Campus, Indore

REPORT

Date 18 June, 2016

Session: Evening

Topic- “Best practices of resettlement and Rehabilitation- A Successful Story Based on Sardar Sarovar Project.”

Resource person- Afroz Ahmed , Member, Environment and Rehabilitation, Narmada control Authority, Govt. of India.

In post lunch session of refresher course in Environment studies Dr. Arti Bourasi welcome to Afroz Ahmed , Member, Environment and Rehabilitation ,Narmada control Authority, Govt. of India. Afroz Ahmed has delivered his lecture on - “Best practices of resettlement and Rehabilitation- A Successful Story Based on Sardar Sarovar Project.”He told about the narmad river and Sardar Sarovar Project.The hight of dam is 163 meter from the deepest foundation level,Designed Live Storage Capacity of the Reservoir 5860 MCM (4.75 million acre feet),Irrigation - 1.905 million Ha (1.8 million Hecter in Gujarat benefitting 1 million farmers),Drinking Water - 9633 villages and 131 towns (29 million people),Hydropower - 1,450 MW installed capacity (1 billion kWh every year),Canal Network - Approximately 75,000 km length within Gujarat, Four state Madhya Pradesh ,Gujrat, Maharashtra and rajasthan has benefitted from this project .production of electricity have stated. The dam’s catchment area is around 200 km. all resettlement and Rehabilitation process had complicated. Development and environment are two sides of the same coin and it is recognized that sustainable development is not possible without adequate environmental protection measurers. Sardar Sarovar project is the first major river valley project which is subjected to exacting environmental conditions imposed by the Government of India at the time of according clearance to this project. Environmental Sub group has been constituted by Narmada Control Authority which monitors the different aspects of environmental related issues.

The lecture was very informative and meaningful for participants. After lecture participants asked their quarries. At the end of session Dr.Sushil Manderia has given vote of thanks to Afroz Ahmed on the behalf of all participants.

Report prepared by-

Dr. Sushil Manderia

Dr. Arti Bourasi

28th Refresher Course in Environmental Studies (ID)
June 08th – 28th, 2016
Human Resource Development Centre (HRDC)
Devi Ahilya Vishwavidyalaya, Khandwa Road Campus, Indore

REPORT

Date: 20th June, 2016
(Morning Session)

Topic – Biomedical waste management

Dr. Asad Warsi, consultant solid waste management and owner of Hoswin Incineration Pvt. LTD.

Dr. Asad Warsi delivered the lecture on Biomedical waste management. In the First session, he started lecture with environment protection act, 1986 and biomedical waste handling rules, 1995 came in existence. He also further discussed treatment facility special context with Indore city. He discussed mode of treatment and categorized biomedical waste in ten types. He explain all the types like human anatomical waste, microbiological waste, solid waste, chemical waste and liquid biomedical waste etc. in detail. Dr. Warsi has also talked about detail procedure of incineration, autoclaving and double autoclaving.

In the second phase, he has discussed about E-waste management in brief and took reference of “Hoswin incineration Pvt. Ltd.” M. P.’s first and biggest biomedical treatment plant in Indore. So overall Dr. Warshi’s lecture was very important in current scenario and fruitful for the participants.

Report Prepared by

1. Dr. Mamta Pathrade, Assistant professor, Department of Zoology, MJB Govt. Girls P.G. College, Moti Tabela, Indore
2. Mr. Meenakshi Rawat, Assistant professor, Department of Mathematics, Govt. P.G. College, Dhar

28th Refresher Course in Environmental Studies (ID)
June 08th – 28th, 2016
Human Resource Development Centre (HRDC)
Devi Ahilya Vishwavidyalaya, Khandwa Road Campus, Indore

REPORT

Date-21 June 2016

Session- Morning

Topic - Composting Of Biomass

Resource Person- Dr. R. N. Singh (Professor, School Of Energy & Environmentvstudies)

The lecture was delivered on topic "Biomass composting". Two methods of composting was discussed: anaerobic and aerobic. Process which involved in these two methods were presented by resource person. In addition with this forced aeration, compost bin and vermicompost technology were also discussed. Further, alcohol preparation by using biomass was explained. Bioethanol from crops, third generation of biofuels and other relevant points were discussed.

Report Prepared by:

1. Rahul K Kamble Assistant Professor, Department of Environmental Science Sardar Patel College Ganj Ward, Chandrapur

28th Refresher Course in Environmental Studies (ID)
June 08th – 28th, 2016
Human Resource Development Centre (HRDC)
Devi Ahilya Vishwavidyalaya, Khandwa Road Campus, Indore

रिपोर्ट राइटिंग

दिनांक 21 जून, 2016

आज दिनांक 21 जून, 2016 को पर्यावरण रिफ्रेषर कोर्स के दिवतीय सेशन में रिसोर्स पर्सन प्रोफेसर आनंद कर, फॉर्मर डीन, लाईफ साइन्स देवी अहिल्या विश्वविद्यालय, इंदौर के द्वारा बायो डायवर्सिटी मैनेजमेंट पर व्याख्यान दिया गया। व्याख्यान के महत्वपूर्ण पहलू जैसे बायो डायवर्सिटी संरक्षण अधिनियम EPCO, Deforestation, Mining, MP projects, Natural Calamities, Flood, Drought, Earthquake, WLP act 1972, RFCA 1980, Biodiversity act 2000, नैशनल पार्क] सेन्च्युरी बायोस्फियर, हैबिटेड प्रोटेक्शन और इथेनो बॉटनिकल प्लान्ट्स आदि थे।

चाय के पश्चात दूसरा व्याख्यान पर्यावरण एवं स्वास्थ्य इस विषय पर दिया गया। उन्होने बताया की कैसे नागरिकरण, बढ़ती लोकसंख्या और प्राकृतिक संपदा के अंधाधुन्ध उपयोग से मानव जीवन के स्वास्थ्य पर बुरा प्रभाव पड़ रहा है। साथ ही उन्होने जल प्रदुशण, वायु प्रदुशण, ध्वनि प्रदुशण के बारे में समझाया।

1. डॉ. राधेश्याम डहेरिया
सहायक प्राध्यापक, जंतु विज्ञान
2. डॉ. संध्या बटवे,
सहायक प्राध्यापक,

28th Refresher Course in Environmental Studies (ID)
June 08th – 28th, 2016
Human Resource Development Centre (HRDC)
Devi Ahilya Vishwavidyalaya, Khandwa Road Campus, Indore

REPORT

Date: 20/6/16

Session: Evening

Topic: Biomass

Resource Person: Dr. R. N. Singh from School of Energy, DAVV, Indore

In the second session Dr. R. N. Singh from School of Energy, DAVV, Indore continued his lecture on Biomass. Later on he delivered lecture on Thermo conversion of Biomass (Gastification). He discussed upon the sources and technology of processing biomass through Gastification.

In the next part he discussed on Bio conversion of Biomass (Biogass). He explained bio methanation process and its advantages. Prof Singh concluded the lecture with the necessity of Biomass technology in India in future perspective.

Report Prepared by:

1. Anita Chauhan
2. Anita Solanki

रिपोर्ट राइटिंग

दिनांक 22 जून, 2016

सत्र : 1

आज सुबह प्रातःकालिन सत्र मे सभी प्रतिभागी के पोस्टर प्रदर्शन था। इस प्रदर्शन के परीक्षक डॉ. गुणवंत जोषी जी थे। जिनका परिचय निलेष षेळके ने कराया। सभी प्रतिभागीयो ने जलवायू परिवर्तन संमेलन इस विशय पर पोस्टरस बनाए थे। इन संमेलन आयोजन का हेतू, संमेलन क्रमांक 3, 8, 10, 15, 16, 17, 20, 21, रियो 21 पर अपनी प्रस्तुति सभी प्रतिभागीयो ने दी। चार चार लोगों के गुप बनाए थे। हर एक गुप के पोस्टर प्रदर्षन के बाद डॉ. गुणवंत जोषी जी ने कुछ नयी बाते भी बातायी, कुछ कमीयो के बारे मे भी बताया। इस समय उन्होने कहा की पर्यावरण बहुत ज्यादा प्रदुशित हो चुका है और उसके संरक्षण के लिए जनजागृति लाना आवष्यक है। इस समय कोर्स समन्वयक डॉ. रुबिना चौधरी भी उपस्थित थी। अंत में प्रो. सपना मालवीय ने सभी प्रतिभागियों की ओर से आभार व्यक्त किया।

1. सपना मालवीय
2. निलेष के. षेळके

28th Refresher Course in Environmental Studies (ID)
June 08th – 28th, 2016
Human Resource Development Centre (HRDC)
Devi Ahilya Vishwavidyalaya, Khandwa Road Campus, Indore

REPORT

Date: 23rd June, 2016

(Full Session)

That academic tour was arranged under the guidance of course coordinator Dr. Rubina Chaudhary. We all participants move to visit how to manage the waste which is the serious issues of the day today life. When we all participants each there the person who provide us mask because there are so many hazardous waste are present so we see the scenario how they manage and convert the waste into manure which helps to soil for good fertility. The plant manager guided us how to collect the waste and segregate the waste by using different methods and process and finally we get the manure after several process

Later on we all move to farm of Jimmy and Nanak there are eco-friendly and sustainable energy plant work very well. Nanak mam guided us how practically how it works and how to cook on solar panels. This is amazing experience for all of us because before this we learn about the sustainable energy but practically seen first.

Thanks again we move for Shipra and Narmada link where the lineages of water of both river which very good place. Finally we all come back to HRDC.

28th Refresher Course in Environmental Studies (ID)
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Human Resource Development Centre (HRDC)
Devi Ahilya Vishwavidyalaya, Khandwa Road Campus, Indore

REPORT

Date: 24 June, 2016

(Morning Session)

Topic – Seminar Presentation

Resource person: Prof. Ajay Verma
Prof. Pratibha Sharma

The day begun with the brief profile reading of Prof. Ajay Verma and Prof. Pratibha Sharma by Dr. Deepak Kumar Rana. After the profile reading, Dr. Rana welcome resource persons.

On the day in morning session, there was seminar presentation by the 21 participants being as follows:

S. No.	Name of Participant	Topic of Seminar
1	Shelake Nilesh Kedari	Environmental aspects in Marathi Literature
2	Vinod Kondiba Barote	LASER and their applications
3	Shrikrushna S Parihar	Critical analysis by EIA: A case study on Lavasa
4	Dr. Rajesh Sakwar	Bhartiya darshan me paryavaran sanrakshan
5	Pawan Singh	Mobile phone hazards and solutions
6	Shantilal Erwar	Climate change and its impacts
7	Deepak Kumar Rana	Impact of climate change on vegetable production
8	Seema Rawat	Role of microflora in composting
9	Dr. Sabyasachi Dasgupta	Multidirectional shifting of tree species indicating variable response of tree species to climate change in Western Himalayas
10	Dr. Rajesh Masatkar	Environment and our health
11	Sudesh Kumar	E-waste management
12	Biswajit Maji	Green chemistry: Important tool for sustainable development
13	Prem Chand	NGT, 2010
14	Dr. Ashok Rawat	Air pollution
15	Masheer Ahmed Khan	Drug pollution
16	Ganesh Rathor	Jal pradushan
17	Vijay Paramanik	Environment endocrine disrupters (In context of brain disorders and neurogenerative diseases)
18	Anita Gupta	Bhoj wetland pariyojana ke liye janbhaagidaari evam prayavaran jagrukta
19	Haribhau Machindra Pawar	Introduction of parasites
20	Sayyed Rizwan Ahemad Ali	Environmental factors affecting growth and survival of microorganisms in food
21	P. Thangavel	Remediation of metal contaminated soils using phytotechnologies-From lab to field

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Dr. Shantilal Erwar gave vote of thank.

During the session, the resource persons provide their ideas to enhance the quality of presentation and raised the issues about present scenario of the environment and climate change correlation with seminar topics.

Report Prepared by:

1. Dr. Deepak Kumar Rana, HNB Garhwal University, Srinagar (Garhwal)
2. Shantilal Erwar, Govt. P.G. College, Mandsaur

28th Refresher Course in Environmental Studies (ID)
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REPORT

Date: 24 June, 2016

(Evening Session)

**Topic – Introduction to online teaching aid with special reference to open source
<http://moodle.org>.**

Resource person: Praveen Karma, Asst. Professor, IT, IES, DAVV.

Mr Praveen Karma having 16yrs of experience in the IT sector delivered a brief on open source platform for managing academic activities. He let the participants conduct hands on practice of online examination through moodle.org platform.

Moodle is a learning platform designed to provide educators, administrators and learners with a single robust, secure and integrated system to create personalised learning environments. Moodle is built by the Moodle project which is led and coordinated by Moodle HQ, an Australian company of 30 developers which is financially supported by a network of over 60 Moodle Partner service companies worldwide. Salient features of the platform are as follows.

- Built for learning, globally
- Proven and trusted worldwide
- Designed to support both teaching and learning
- Easy to use
- Free with no licensing fees
- Always up-to-date
- Moodle can be run in different language
- All-in-one learning platform
- Highly flexible and fully customisable
- Scalable to any size
- Robust, secure and private
- Use anytime, anywhere, on any device
- Extensive resources available
- Backed by a strong community

For most of the participant it was a new experience and found to be very useful and environment friendly way of managing everyday academic activities. More practice on design and use would be required to convert the learning into practice.

Report Prepared By:

1. Dr. Seema Rawat
2. Dr. Sabyasachi Dasgupta

(H.N.B. Garhwal University, Srinagar, Garhwal, Uttarakhand)

28th Refresher Course in Environmental Studies (ID)
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Devi Ahilya Vishwavidyalaya, Khandwa Road Campus, Indore

REPORT

Date: 25 June, 2016

(Morning Session)

Topic – Seminar Presentation

Resource person: Prof. Ajay Verma
Prof. Pratibha Sharma

The day begun with the brief profile reading of Prof. Ajay Verma and Prof. Pratibha Sharma by Dr. Deepak Kumar Rana. After the profile reading, Dr. Rana welcome resource persons.

On the day in morning session, there was seminar presentation by the remaining 20 participants being as follows:

22	Megha Pandey	Environmental Ethics: Rights vs. Duties
23	Ajay Singh Kusre	Bhartiya paryavaryan neeti
24	Dr. Meenu Varshney	Laser fusion energy: The quest of producing sun on earth
25	Prof. Rani Waskel	Vanounmalan (deforestation) ka paryavaran par prabhav
26	Sangeeta Dongre	Air pollution induced changes in foliar morphology of shrub species
27	Dr. Pramila Sadhav	Biodiversity
28	Dr. Mona Yadav	Divine concept of environment in Indian culture
29	Dr. Gopal Singh Kharadi	Ozone parat: Prithvi ka raksha kavach
30	Dr. Dharendra Kerwal	Economic development and Environment
31	Dr. Sushil Manderia	Ecofriendly smart city- A green approach
32	Dr. Arti Baurasi	Water quality index
33	Dr. Meenakshi Rawal	Paryavaran pradushan
34	Mamta Pathrade	Reminiscence of the past- Its relevance to present context (Special reference to bujh beds)
35	Anita Chauhan	Green economy and sustainable development
36	Dr. Anita Solanki	Drinking water quality and its impact on human health
37	Dr. Umesh Kumar Kakeshwar	Environment and hindi and english poets
38	Rahul Krishna Kamble	Buddhist response to environment degradation
39	Dr. Radheshyam Daheriya	Environment and effect for global warming
40	Dr. Sandhya Batwe	Sewage fed fisheries
41	Prof. Sapna Malviya	Concept of ecosystem

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Dr. Shantilal Erwar gave vote of thank.

During the session, the resource persons provide their ideas to enhance the quality of presentation and raised the issues about present scenario of the environment and climate change correlation with seminar topics.

Report Prepared by:

1. Dr. Shantilal Erwar

REPORT

Date: 25th June, 2016

(Evening Session)

Topic – Green Technology

Resource Person: Prof. Suresh Kumar Billore, retired as Dean & Head from the Department of Botany & Environmental Science, Vikram University, Ujjain.

Prof. Suresh Kumar Billore, retired as Dean & Head from the Department of Botany & Environmental Science, Vikram University, Ujjain was the resource person. He has visited so many countries such as Japan, US, China, Australia, Thailand etc and published more than 100 international journals with high impact. He has guided 25 research Scholars. His research area is Green Technology, particularly green roof technology and swage water treatment with the help of plants.

Prof. Billore delivered the lecture on Green Technology in the first session. In this session, He described a unique sustainable approach for the green roof technology. A special type of fourth layer composites is required for the making a green roof. The choice of plants is very important for the green technology and the plants whose stomata open at night and the area of leafs are in big size are right choice for this technology. He also stressed the temperature difference at least 15C in between the outer and inner wall of a house having green roof. Second phase, He has discussed about waste water treatment for municipality, industries with the help of green and sustainable approach. Even, a waste water treatment plant was established in a college at Indore. In this technique the all the parameters such as BOD, COD, pH, DO, other suspended materials are as optimum as obtained by some other scientific and costly techniques. One house with value added as the roof of the house has planted with so many types of appropriate plants species responsible for roof technology and also having waste water treatment has been planned on his guidance and awarded the best green building award.

In the third lecture, Prof. Billore addressed on Biodiversity and the importance at the current time. He stressed that so many natural calamity happened globally recently due to deforestation, global warming, increase the no of pollutants. Everybody should have taken responsibility to keep maintain biodiversity. Once each and every levels of the biodiversity preserved, only there is a hope to sustain the life in future.

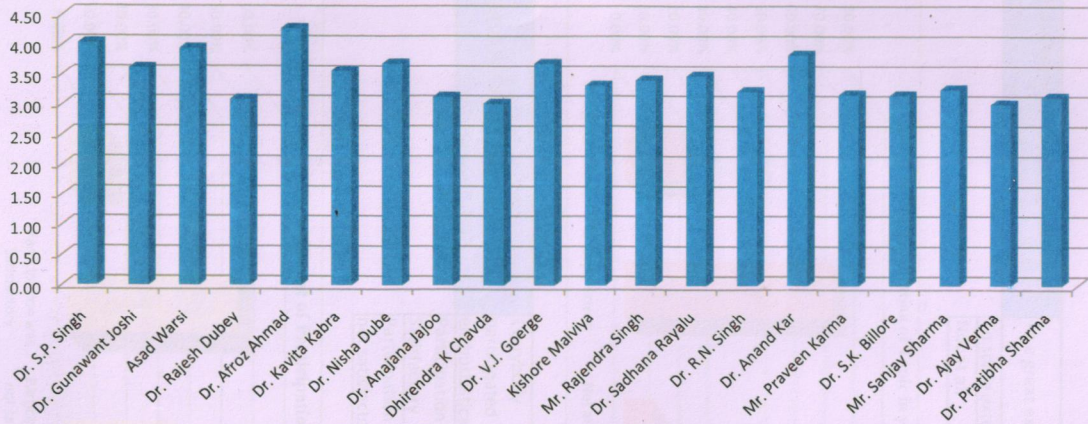
Overall, it was quite interesting and Fruitful session and it enhanced our knowledge of Environmental Studies and making awareness on basic green technology and maintains biodiversity.

Report Prepared by:

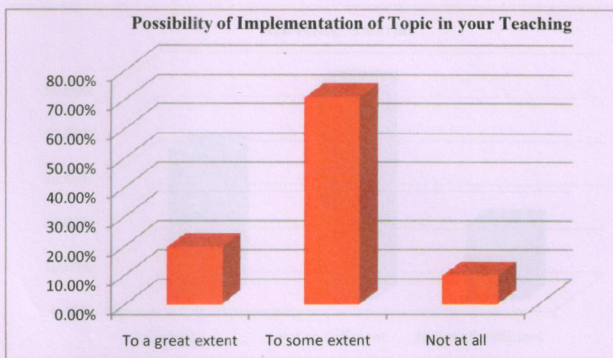
Dr Rajesh Masatakar, Assistant professor
Department of Botany
Govt. Degree College, Nanpur, Mandala

Sudesh Kumar, Assistant professor
Department of Computer Science
IGNTU, Amarkantak, MP

Refresher Course in Environmental Studies



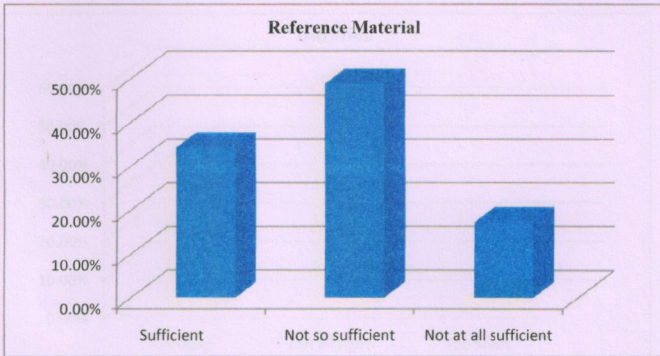
1	Possibility of implementation of topics in your teaching	To a great extent	19.51%
		To some extent	70.73%
		Not at all	9.76%



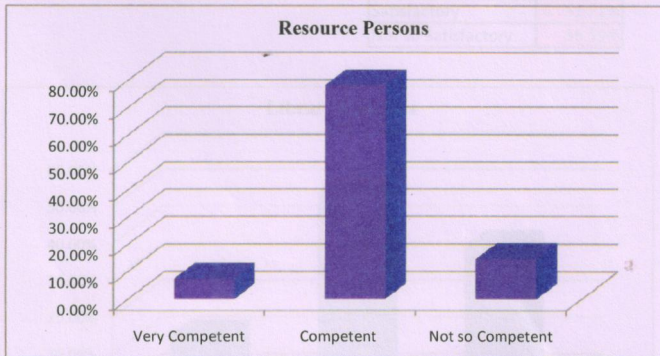
2	Extent of Participation	Everybody participated enthusiastically	12.20%
		Participation was Satisfactory	53.66%
		Participation was not satisfactory	34.15%



3	Reference Material	Sufficient	34.15%
		Not so sufficient	48.78%
		Not at all sufficient	17.07%



4	Resource Persons	Very Competent	7.32%
		Competent	78.05%
		Not so Competent	15%



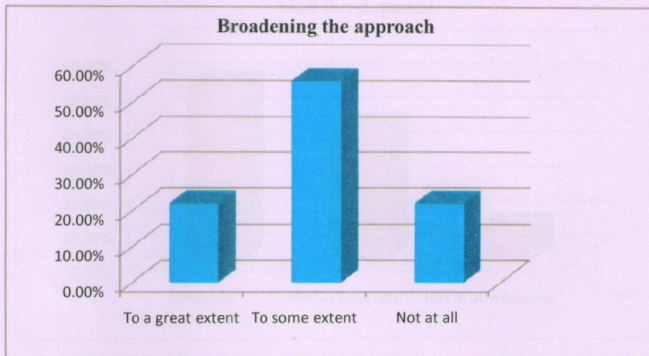
5	Duration	Too Long	39.02%
		Just all right	58.54%
		Too Short	2.44%



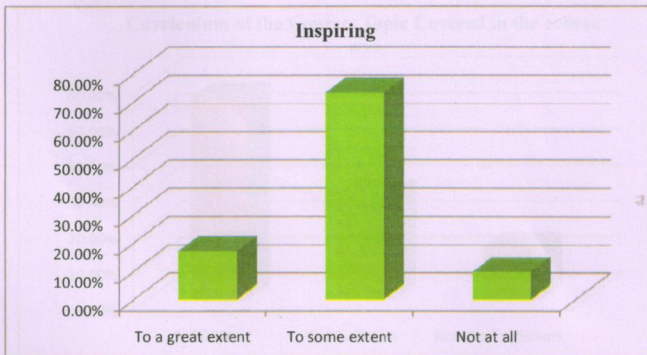
6	Library Facilities	Good	12.20%
		Satisfactory	51.22%
		Not so Satisfactory	36.59%



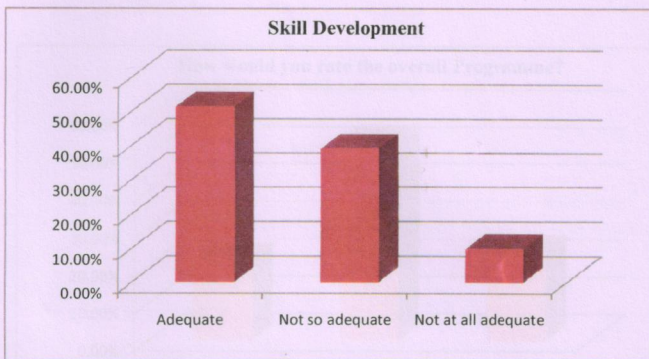
1 Broadening the approach	To a great extent	21.95%
	To some extent	56.10%
	Not at all	21.95%



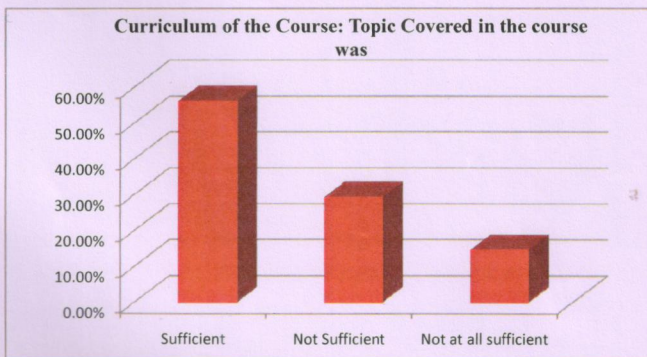
2 Inspiring	To a great extent	17.07%
	To some extent	73.17%
	Not at all	9.76%



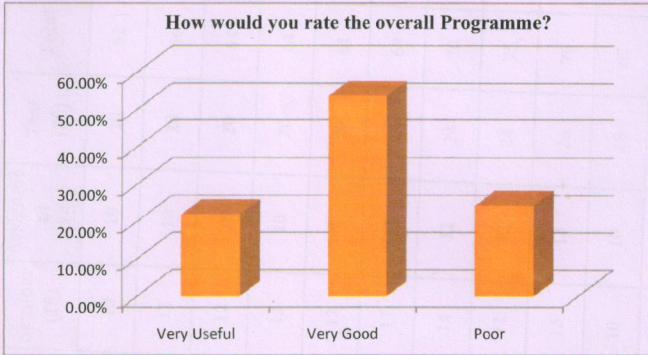
3 Skill Development	Adequate	51.22%
	Not so adequate	39.02%
	Not at all adequate	9.76%



4 Curriculum of the Course: Topics Covered in the course was	Sufficient	56.10%
	Not Sufficient	29.27%
	Not at all sufficient	14.63%



5	How would you rate the overall programme?	Very Useful	21.95%
		Very Good	53.66%
		Poor	24.39%



Refresher Course in Environmental Studies

08/06/2016 to 28/06/2016

Seminar Marks List

SN	Person Name	College Name	Poster (30)	Seminar (15)	Assignment (15)	Test (30)	Total	Grade	New Marks	Avg	G
1	Shelake Nilesh Kedari	Dr. Gahli College Gadhinlaj , Shivaji University Maharashtra	22	10	10	20	62	B	71.92	72	A
2	Megha Pandey ✓	SS Pontical Science and Public Administration , Vikram University , Ujjain	24	12	10	20	66	B	76.56	77	A
3	Vinod Kondiba Barote ✓	Dr. Bāoa Saheb Ambedkar Marathwada University, Aurangabad	22	12	10	20	64	B	74.24	75	A
4	Shrikrushna S Parihar ✓	Dr. Baba Saheb Ambedkar Marathwada University, Aurangabad	22	12	10	20	64	B	74.24	75	A
5	Dr. Rajesh Sakwar ✓	Govt. College Suwasra, Mandsaur	20	12	9	20	61	B	70.76	71	A
6	Pawan Singh	Dept. of Computer Science , Indra Gandhi National Tribal University , Amarkantak	20	13	12	24	69	B	80.04	80	A
7	Shantilal Erwar	Govt. P.G. College Manduar	20	14	12	24	70	B	81.2	81	A
8	Deepak Kumar Rana	HNB Garhwal University. Srinagar	27	12	12	24	75	A	87	75	A
9	Seema Rawat	Dept. of Botany and Microbiology, HNB Garhwal University, Srinagar	24	13	13	26	76	A	88.16	76	A
10	Dr. Sabyasachi Dasgupta ✓	Dept. of Forestry and Natural Resources, HNB Garhwal University, Srinagar	27	10	10	28	67	B	77.72	78	A
1	Dr. Rajesh Masatkar	Govt Degree College , Nainpur, Mandla	19	9	12	24	64	B	74.24	75	A
2	Sudesh Kumar ✓	Dept. of Computer Science , Indra Gandhi National Tribal University , Amarkantak	20	13	14	28	69	B	80.04	80	A
	Biswajit Maji ✓	Dept. of Chemistry , Indra Gandhi National Tribal University , Amarkantak	20	14	13	28	73	B	84.68	85	A

SW B

	Prem Chand	National Law University Delhi										
5	Dr. Ashok Rawat ✓	Govt. College , Sailana , Ratlam	20	9	9	22	56	C	64.96	65	B	
6	Masheer Ahmed Khan	School of Pharmacy, DAVV , Indore	23	13	13	26	75	A	87	75	A	
7	Ganesh Rathor	Govt. College , Alote , Ratlam	20	10	10	20	60	B	69.6	70	B	
18	Vijay Parmanik ✓	Indra Gandhi National Tribal University , Amarkantak	20	12	13	26	71	B	82.36	82	A	
19	Anita Gupta ✓	Saifia Arts and Commerce College , Bhopal	24	9	8	16	57	C	66.12	66	B	
20	Haribhau Machindra Pawar ✓	Maharaja JPV ASC College , Dhadgaon, Nandurbar	22	9	8	16	55	C	63.8	64	B	
21	Sayyed Rizwan Ahemad Ali ✓	Sir Sayyed College of Arts and Commerce & Science , Aurangabad	20	10	12	24	66	B	76.56	77	A	
22	P. Thangavel	Periyar University , Salem , Tamil Nadu	27	12	13	26	78	A	90.48	78	A	
23	Ajay Singh Kusre ✓	Swami Vivekanand Govt College , Lakhdon. Jabalpur	19	10	10	20	59	C	68.44	69	B	
24	Dr. Meenu Varshney	School of Physics, DAVV Indore	23	14	13	26	76	A	88.16	76	A	
25	Prof. Rani Waskel ✓	SBN Govt PG College Barwani	20	12	12	24	68	B	78.88	79	A	
26	Sangeeta Dongre ✓	Govt MLB Kila Maidan , Indore	23	12	12	24	71	B	82.36	82	A	
27	Dr. Pramila Sadhav ✓	Holkar Science College, Indore	23	12	12	28	71	B	82.36	82	A	
28	Dr. Mona Yadav	Dev Sanskriti Vishwavidhyalaya, Haridwar	24	12	8	16	60	B	69.6	70	B	
29	Dr. Gopal Singh Kharadi	Govt Arts and Science College , Ratlam	20	10	10	20	60	B	69.6	70	B	
30	Dr. Dharendra Kerwal ✓	Govt Arts and Science College , Ratlam	21	10	10	20	61	B	70.76	75	A	

S E

1	Dr. Sushil Manderia ✓	UTD Jiwaji University , Gwalior	21	13	13	26	73	B	84.68		
2	Dr. Arti Baurasi ✓	Govt P.G. College Dhar	20	13	10	20	63	B	73.08	75	A
3	Dr. Meenakshi Rawal ✓	Govt P.G. College Dhar	20	10	8	16	54	C	62.64	63	B
4	Mamta Pathrade ✓	MJB Govt Girls P.G. College, Indore	21	12	12	24	69	B	80.04	80	A
5	Anita Chauhan ✓	MJB Govt Girls P.G. College, Indore	21	12	12	24	69	B	80.04	80	A
6	Dr. Anita Solanki ✓	Govt. P.G. College, Mhow	21	12	12	24	69	B	80.04	80	A
7	Dr. Umesh Kumar Kakeshwar	Govt. College. Anjad	19	13	10	20	62	B	71.92	72	B
8	Rahul Krishna Kamble ✓	Sardar Patel College , Gondwana University, Gadchiroli, Maharashtra	21	13	13	28	73	B	84.68	85	A
9	Dr. Radheshyam Daheriya ✓	Swami Vivekanand Govt College , Lakhdon. Jabalpur	19	10	10	20	59	C	68.44	68	B
10	Dr. Sandhya Batwe ✓	Govt. P.G. College, Khargone	21	12	12	24	69	B	80.04	80	A
11	Prof. Sapna Malviya ✓	BLP Govt P.G. College. Mhow	21	12	12	24	69	B	80.04	80	A

R. K. Manderia
Course Coordinator

Evaluator

1

S. P. Singh

Evaluator

2

N. M. Malviya

Human Resource Development Centre,
Devi Ahilya Vishwavidyalaya, Indore
Refresher Course in Environmental Studies (08/06/2016 to 28/06/2016)



1st Row:- Dr. Gopal Singh Kharadi , Dr. Ganesh Rathor, Sudesh Kumar , Dr. Masheer Ahmed Khan , Prof. R.N. Singh , Prof. Bhumesh Gupta, Prof. S. P. Singh , Mr. Rajendra Singh Namrata Sharma (Director) , Dr. Rubina Choudhary(Course Coordinator) , Dr. Jayshri Bansal , Dr. P. Thangavel Dr. Shantilal Erwar , Dr. Umesh Kumar Kakeshwar

2nd Row:- Dr. Biswajit Maji , Dr. Vijay Parmanik , Dr. Rajesh Masatkar, Dr. Radheshyam Daheriya, Dr. Mona Yadav, Prof. Sapna Malviya, Dr. Anita Gupta, Dr. Seema Rawat, Dr. a Solanki, Mrs. Sangeeta Dongre, Dr. Pramila Sadhav, Prof. Rani Waskel, Dr. Meenakshi Rawal, Dr. Arti Baurasi, Ms. Anita Chauhan, Dr. Sandhya Batwe, Dr. Meenu Varshney, Ms. ta Pathrade, Ms. Megha Pandey

3rd Row:- Dr. Sayyed Rizwan Ahemad Ali, Mr. Shrikrushna S. Parihar, Dr. Haribhau Machindra Pawar, Dr. Rahul Krishna Kamble, Mr. Pawan Singh, Dr. Rajesh Sakwar, Dr. Susha deriya, Dr. Deepak Kumar Rana, Dr. Dharendra Kerwal, Dr. Prem Chand, Dr. Sabyasachi Das Gupta, Dr. Vinod Kondiba Barote, Mr. Shelanke Nilesh Kedari, Dr. Ajay Singh Kusre, Dr. k Rawat