

Report on
Entrepreneurship Development Programme (EDP)
“Rapid Water Cleaning using Bio-Resources & other low cost materials in
Arunachal Pradesh”

*Organized by: Centre for Entrepreneurship & Dept. of Chemistry, Rajiv Gandhi
University*



**In collaboration with National Science & Technology Entrepreneurship
Development Board, DST, GoI**



& EDII, Ahmedabad.



**ENTREPRENEURSHIP
DEVELOPMENT
INSTITUTE OF INDIA**

(23rd Oct, 2017– 23rd Nov, 2017)

Chief Patron



**Prof. Tamo Mibang
Vice Chancellor
Rajiv Gandhi University**

Patron



**Prof. Amitava Mitra
Finance Officer
Rajiv Gandhi University**

Patron



**Prof. Tamo Riba
Registrar
Rajiv Gandhi University**

Patron



**Prof. RC Parida
Chairman Advisory
Committee
Centre for Entrepreneurship
Rajiv Gandhi University**

Entrepreneurship Development Programme (EDP)

(23rd Oct, 2017– 23rd Nov, 2017)

The entrepreneurship development programme (EDP) was organized to promote entrepreneurship in the state of Arunachal Pradesh. This training programme look into the challenges the society is facing currently and how it can dealt in an entrepreneurial way. It was organized jointly by the Centre of Entrepreneurship and Department of Chemistry, Rajiv Gandhi University.

This special entrepreneurship development programme was organize to tackle the issues of arsenic water contamination and other harmful impurities in water. Arsenic water contamination is a challenge especially in Dibang valley in Arunachal Pradesh. The course takes a comprehensive approach in tackling the problem by providing potential entrepreneurs both the technical know-how and start-ups skills to the participants.

Objectives:

1. Encourage and initiate youths of Arunachal Pradesh to the scope and potential of entrepreneurship
2. Highlight the role of entrepreneurship in tackling societal issues
3. Impart sustainable purification technology for arsenic and other impurities.

Audience: Youths in Arunachal Pradesh with Science and Technology backgrounds.

Several youths from across the state were part of the training programme. For a detail list, please refer to Annexure I.

Course Content: Introduction to Entrepreneurship, Motivation & Personality issues of Entrepreneurship, Business Opportunity Identification, Business Plan &

Project Preparation, Financial Aspects of Entrepreneurship, and Technical Aspects related to sustainable water purification with bio-resources.

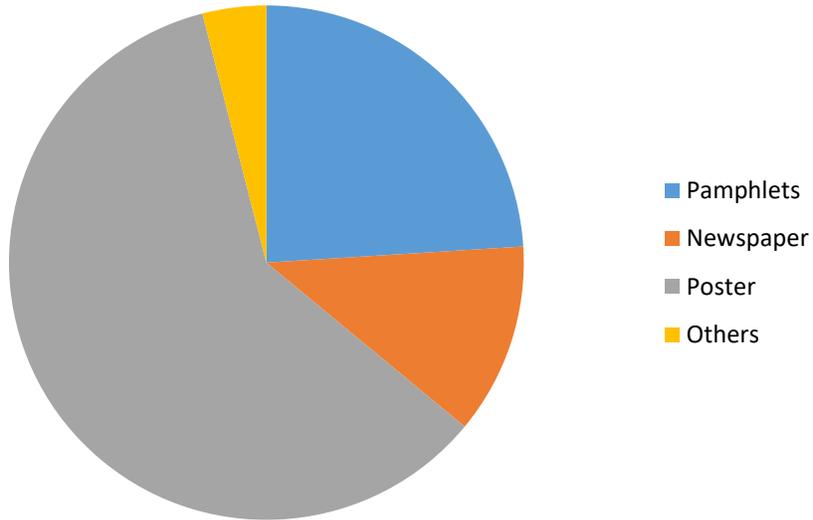
Resource Persons: The resource persons were a mix of academic and practitioners in the field of entrepreneurship. For a detail list of the resource persons, please refer to Annexure II.

Pedagogy: In the EDP programme, resource persons with different backgrounds utilized various entrepreneurial education methods. Some of the selected list of methods used in the programme were lectures, experiential learning, reflection, participatory method and field visits. For a detail list of the programme content please refer to Annexure III

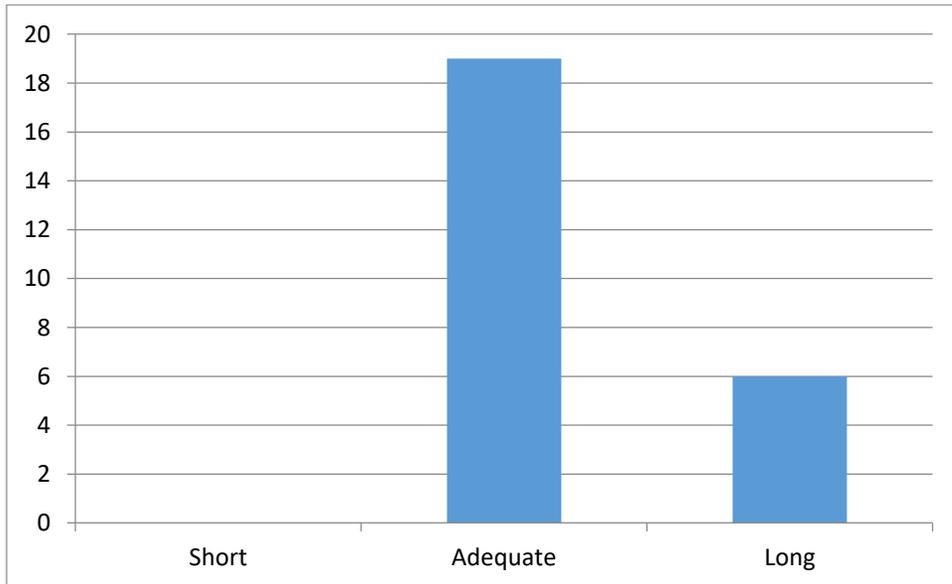
Outcome: The participants expressed and demonstrated positive attitude towards entrepreneurship and expressed plans to start ventures in the near future. The participants were engaged with funding agencies to explore entrepreneurship ventures with appropriate business plans.

Feedback Analysis of Participant

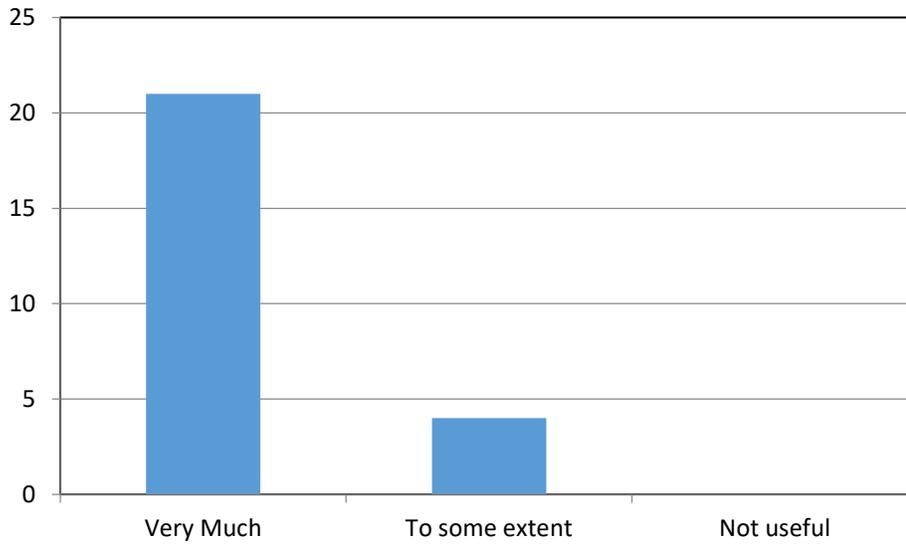
1. From where you got the information about this programme?



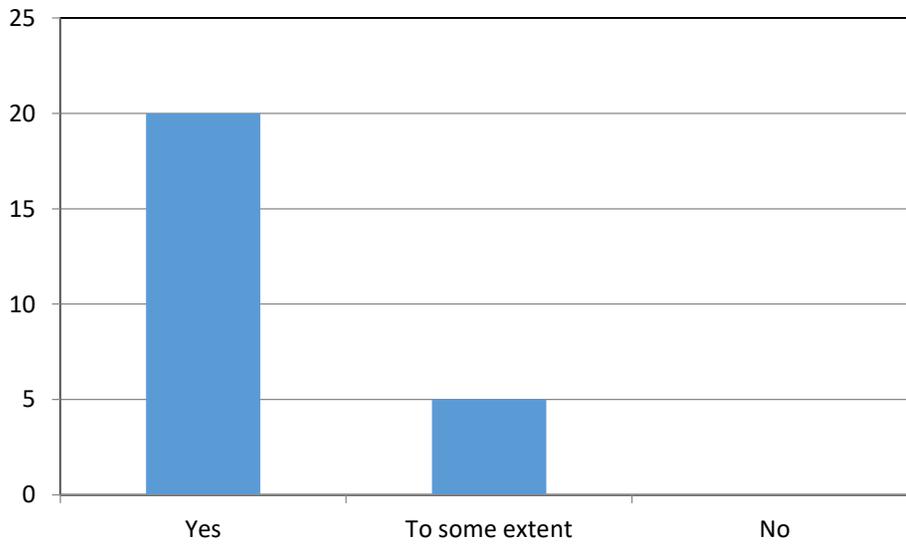
2. What is your opinion about the duration of Programme?



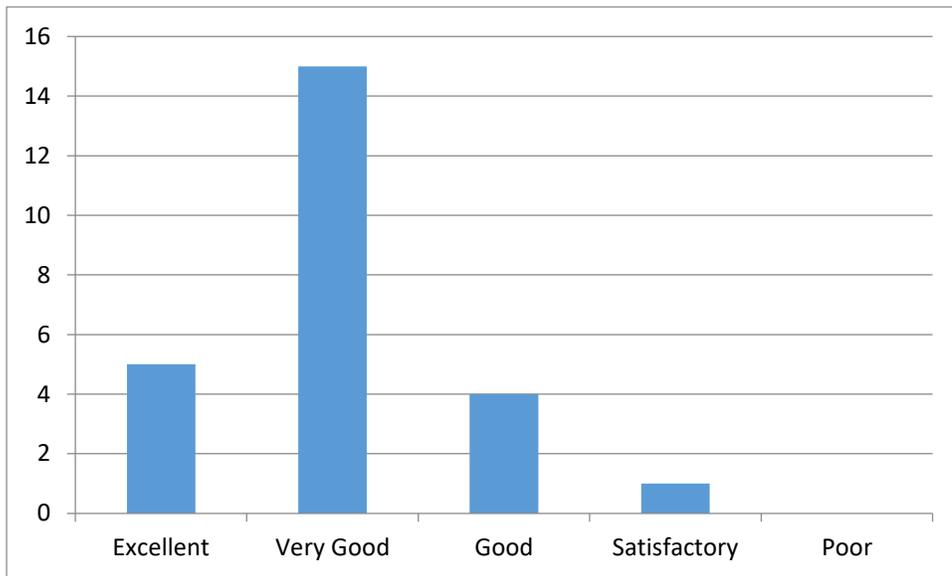
3. Did you find the programme useful?



4. Did it fulfill your expectations?



5. Planning of the Programme



A Few Moments from the EDP



Figure 1 EDP Participants in the Conference Room



Figure 2 EDP Participants field visit



Figure 3 EDP Participants during technical session

EDP Organizing Team

Convenor of the Workshop

Gautam Huidrom

Coordinator

Centre for Entrepreneurship (Department of Management)

Rajiv Gandhi University, Rono Hills, Doimukh

Email: ghuidrom@gmail.com

Ph: 9402275973

Co-Convenor of the Workshop

Dr. Rajesh Charkarbarty

Department of Chemistry

Rajiv Gandhi University, Rono Hills, Doimukh

Email: chakrabarty.rajesh@gmail.com

Ph: 7308405946

Deputy Convenor of the Workshop

Odang Tayeng

Deputy Coordinator

Centre for Entrepreneurship (Department of Management)

Rajiv Gandhi University, Rono Hills, Doimukh

Email: odangbai@gmail.com

Ph: 9436079220

Annexure I

EDP Participants List

Sl. No	Name	Age	Male/ Female	Education	Category: General/ST/ SC/OBC/ Minority	Adhaar No.	Project/Product
1	Obinam Dupak	23	Female	BSc	ST	374940902989	Rapid Water Cleaning
2	Seema Khanum	30	Female	BE	GEN	884652250390	Rapid Water Cleaning
3	Nang Pinni Mein	26	Female	BSc	ST	948321244025	Rapid Water Cleaning
4	Nina Lego	28	Female	BTech	ST	220877435184	Handicrafts
5	Millo Asha	23	Female	BSc	ST	997569698507	Rapid Water Cleaning
6	Nabam Peinea	24	Female	BSc	ST	824993364758	Food Service
7	Rekhamoni Das	28	Female	BSc	GEN	283885801437	Rapid Water Cleaning
8	Rangne Sorang	25	Female	BSc	ST	247374499356	Rapid Water Cleaning
9	Tana Peter	25	Male	BSc	ST	336372851473	Roofing Material

10	Bath Budh	26	Male	BE	ST	756764334504	Rapid Water Cleaning
11	Rakesh Chowdhury	30	Male	MSc	GEN	564401529986	Rapid Water Cleaning
12	Kipa Robin	27	Male	BTech	ST	594915555327	Rapid Water Cleaning
13	Uday Sankar Das	30	Male	BCA	GEN	Assam Exempt	ICT
14	Chukhu Teyi	23	Male	BSc	ST	676741148629	Rapid Water Cleaning
15	Leegang Thari	25	Male	BE	ST	945275414218	Leegang Thari
16	Pritam Sarkar	26	Male	BE	GEN	617520761016	Food Processing
17	Kalyan Biswas	28	Male	BE	GEN	461378230890	Rapid Water Cleaning
18	Mudang Tagiya	29	Male	BCA	ST	979958114579	Rapid Water Cleaning
19	Ajay Camder Tok	29	Male	BE	ST	423027260154	Rapid Water Cleaning
20	Jill Likha	25	Male	BE	ST	413697289035	Rapid Water Cleaning

21	Joram Kuru	21	Male	BE	ST	393775088271	Joram Kuru
22	Liagi Tassang	32	Male	BSc	ST	267031889305	Bakery & Other Food related
23	Sipa Yachu	23	Male	BE	ST	892181776104	Rapid Water Cleaning
24	Phuntso Gyalisen	23	Male	B Planning	ST	294809155396	Tourism
25	Kipa Radhe	24	Male	BSc	ST	730086672647	Rapid Water Cleaning

Annexure II

List of Faculty/Resource Person (EDP)

Sr No.	Name & Address	Designation	Organization
1	Dr. Sukamal Deb	CEO	KVIB, Govt of AP
2	Gautam Huidrom	Assistant Professor	Rajiv Gandhi University
3	Arindam Charkrabarty	Assistant Professor	Rajiv Gandhi University
4	Devi Baruah	Assistant Professor	Rajiv Gandhi University
5	Mr. Karmakar	AGM	NABARD
6	Dr. Shibabrata Choudhury	Assistant Professor	NERIST
7	Dr. Manmohan Mall	Assistant Professor	NERIST

8	KS Chand	Assistant Professor	Rajiv Gandhi University
9	Anup Dutta	AGM	SBI, Naharlagun
10	Dr. Momocha Singh	Assistant Professor	NIT, AP
11	Dr. A. Dinamani Singh	Associate Professor	NERIST
12	Odang Tayeng	Assistant Professor	Rajiv Gandhi University
13	Sunil Nandi	Assistant Professor	Rajiv Gandhi University
14	Dr. Tasi Kaye	Professor	Rajiv Gandhi University
15	B.P. Sarma Barua	Assistant Professor	Rajiv Gandhi University
16	Dr. Otem Padung	Professor	Rajiv Gandhi University
17	Dr. Rajesh Chakrabarty	Associate Professor	Rajiv Gandhi University
18	Dr. Gautam Kumar Sarma	Post Doctoral Fellow	Rajiv Gandhi University
19	Dr. Dwipen Kakati	Assistant Professor	Rajiv Gandhi University
20	Dr. Md Harunar Rashid	Assistant Professor	Rajiv Gandhi University
21	Dr. Lakhinath Saikia	Assistant Professor	Rajiv Gandhi University
22	Dr. Robin Kumar Dutta	Professor	Tezpur University
23	Dr. K.G. Bhattacharya	Professor	Gauhati University
24	Dr. Arunima Sharma	Professor	Morigaon College
25	Muyir Riba	Assistant Professor	Rajiv Gandhi University

26	Arindam Garg	Associate Professor	Rajiv Gandhi University
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Annexure III

Programme Schedule (EDP)

Entrepreneurship Development Programme on “Rapid Water Cleaning using Bio-Resources in Arunachal Pradesh” 23rd Oct-23rd Nov, 2017

	10am -11am	11am -12 Noon	12 Noon - 1pm	1 pm- 2pm	2 pm – 3pm
23- 10- 17, Mon	Inauguration by the Honorable Vice Chancellor of Rajiv Gandhi University Prof. Tamo Mibang	Who is an Entrepreneur? & Charms of Being an Entrepreneur: Dr. Sukamal Deb, CEO, KVIB Govt. of A.P	Lunch	Who is an Entrepreneur? & Charms of Being an Entrepreneur: Dr. Sukamal Deb, CEO, KVIB Govt. of A.P.	Programme Objectives: Expectations from trainees, Final Goal of the Programme Mr. Gautam Huidrom Coordinator CE, RGU
24- 10- 17, Tue	Developing Entrepreneurial Competencies (Achievement Motivation Training) Mr.Arindam Charkarvarthy Department of Management, RGU	Developing Entrepreneurial Competencies (Achievement Motivation Training) Mr.Arindam Charkarvarthy Department of Management, RGU	Lunch	Marketing Management Ms. Devi Baruah Department of Commerce, RGU	Marketing Management Ms. Devi Baruah Department of Commerce, RGU

25-10-17, Wed	<p>Business opportunity identification in entrepreneurship</p> <p>Dr. Sukamal Deb, CEO, KVIB</p> <p>Govt. of A.P</p>	<p>Business Opportunity Guidance</p> <p>Interactions with Rep. From SFC, KVIC, Consultant etc.</p> <p>Dr. Sukamal Deb, CEO, KVIB</p> <p>Govt. of A.P</p>	Lunch	<p>Schemes of Assistance for MSMEs:</p> <p>Financial Agencies / Institutions</p> <p>Mr. Karmakar, AGM, NABARD</p>	<p>Schemes of Assistance for MSMEs:</p> <p>NSIC, SIDBI, DIC and Other Support Agencies</p> <p>Mr. Karmakar, AGM, NABARD</p>
26-10-17, Thu	<p>Production Planning</p> <p>Dr. Manmohan Mall</p> <p>Centre for Management Studies</p> <p>NERIST</p>	<p>Purchase Techniques</p> <p>Dr. Manmohan Mall</p> <p>Centre for Management Studies</p> <p>NERIST</p>	Lunch	<p>Introduction to Financial Management</p> <p>Dr. Shibabrata Choudhury</p> <p>Centre for Management Studies</p> <p>NERIST</p>	<p>Financial Management for Entrepreneurship</p> <p>Dr. Shibabrata Choudhury</p> <p>Centre for Management Studies</p> <p>NERIST</p>
27-10-17, Fri	<p>Marketing Research for Entrepreneurship</p> <p>Dr. KS Chand</p> <p>Department of Management, RGU</p>	<p>Marketing Research for Entrepreneurship</p> <p>Dr. KS Chand</p> <p>Department of Management, RGU</p>	Lunch	<p>Business Opportunity Guidance</p> <p>Interactions with DIC, SISI, Bank, KVIC etc</p> <p>Mr. Anup Dutta</p> <p>AGM, SBI, Naharlagun</p>	<p>Legal Issues in Entrepreneurship: How set up a SSI Unit</p> <p>Mr. Anup Dutta</p> <p>AGM, SBI, Naharlagun</p>

30-10-17, Mon	<p>Feasibility Study & Preliminary Project Report</p> <p>Dr. M. Momocha Singh</p> <p>Department of Humanities & Management</p> <p>NIT, A.P.</p>	<p>Feasibility Study & Preliminary Project Report</p> <p>Dr. M. Momocha Singh</p> <p>Department of Humanities & Management</p> <p>NIT, A.P..</p>	Lunch	<p>Preparation of Preliminary Project Report</p> <p>Mr. Gautam Huidrom</p> <p>Department of Management, RGU</p>	<p>Preparation of Preliminary Project Report</p> <p>Mr. Odang Tayeng</p> <p>Department of Management, RGU</p>
31-10-17, Tue	<p>Technology and entrepreneurship</p> <p>Dr. A. Dinamani Singh</p> <p>Department of Electronics & Communication</p> <p>NERIST</p>	<p>Technology and entrepreneurship</p> <p>Dr. A. Dinamani Singh</p> <p>Department of Electronics & Communication</p> <p>NERIST</p>	Lunch	<p>Taxation: Various Taxes Applicable to MSME</p> <p>Dr. Sunil Nandi</p> <p>Department of Commerce, RGU</p>	<p>Taxation: Various Taxes Applicable to MSME</p> <p>Dr. Sunil Nandi Assistant</p> <p>Department of Commerce, RGU</p>
01-11-17, Wed	<p>Working Capital Assessment & Management in SSI</p> <p>Prof. Tasi Kaye</p> <p>Department of Commerce, RGU</p>	<p>Working Capital Assessment & Management in SSI</p> <p>Mr. Odang Tayeng</p> <p>Department of Management, RGU</p>	Lunch	<p>Break Even Point</p> <p>Mr. Odang Tayeng</p> <p>Department of Management, RGU</p>	<p>Product Costing and Cost Consciousness</p> <p>Mr. Odang Tayeng</p> <p>Department of Management, RGU</p>
02-11-17, Thu	<p>Cash Flow</p> <p>Mr. B.P. Sarma Barua</p> <p>Department of Management, RGU</p>	<p>Cash Flow</p> <p>Mr. B.P. Sarma Barua</p> <p>Department of Management, RGU</p>	Lunch	<p>Balance Sheet & Profitability</p> <p>Dr. Sunil Nandi</p> <p>Department of Commerce, RGU</p>	<p>Balance Sheet & Profitability</p> <p>Dr. Sunil Nandi</p>

					Department of Commerce, RGU
03- 11- 17, Fri	Business Plan: An Introduction Prof. Otem Padung Department of Commerce, RGU	Business Plan: An Introduction Prof. Otem Padung Department of Commerce, RGU	Lunch	Business Plan Preparation Mr. Gautam Huidrom Department of Management, RGU	Business Plan Preparation Mr. Odang Tayeng Department of Management, RGU
Technical Session					
	10 am – 11am	11am – 12 Noon		2 pm – 3 pm	
06- 11- 17, Mon	Introductory background about water contamination Dr. Rajesh Chakrabarty, Department of Chemistry, RGU	Water Pollution and water quality Dr. Gautam Kumar Sarma, Department of Chemistry, RGU	Lunch	Measurement protocol for hardness and alkalinity Dr. Rajesh Chakrabarty, Department of Chemistry, RGU	
07- 11- 17, Tue	Water contamination: Agricultural & Pesticidal pollutants Dr. Gautam Kumar Sarma, Department of Chemistry, RGU	Water contamination: Industrial and Domestic effluents Dr. Gautam Kumar Sarma, Department of Chemistry, RGU	Lunch	Practical Demonstration and training - Measurement protocol for carbonate, bicarbonate and dissolved oxygen Dr. Rajesh Chakrabarty, Department of Chemistry, RGU	

08-11-17, Wed	Wastewater treatment processes: Primary and Secondary methods Dr. Gautam Kumar Sarma , Department of Chemistry, RGU	Wastewater treatment processes: Tertiary methods Dr. Gautam Kumar Sarma , Department of Chemistry, RGU	Lunch	Community wastewater treatment Dr. Rajesh Chakrabarty , Department of Chemistry, RGU
09-11-17, Thu	Brief theoretical introduction on analytical techniques-GC, HPLC Dr. Dwipen Kakati , Department of Chemistry, RGU	Brief theoretical introduction on analytical techniques-XRD, SEM, TEM Dr. Md. Harunar Rashid , Department of Chemistry, RGU	Lunch	Practical demonstration and training of the analytical techniques-GC, HPLC Dr. Dwipen Kakati , Department of Chemistry, RGU
10-11-17, Fri	Brief theoretical introduction on analytical techniques-UV-Vis Dr. Lakhinath Saikia , Department of Chemistry, RGU	Brief theoretical introduction on analytical techniques-AAS Dr. Md. Harunar Rashid , Department of Chemistry, RGU	Lunch	Practical demonstration and training of the analytical techniques-UV-vis and AAS for anions and metals Dr. Dwipen Kakati , Department of Chemistry, RGU

13-11-17, Mon	Synthesis of low-cost materials for removal of arsenic from contaminated water by adsorption- Part A Prof. Robin Dutta , Department of Chemistry, TU	Lunch	Practical demonstration and training Prof. Robin Dutta , Department of Chemistry, TU
14-11-17, Tue	Synthesis of low-cost materials for removal of arsenic from contaminated water by adsorption- Part B Prof. Robin Dutta , Department of Chemistry, TU	Lunch	Practical demonstration and training Prof. Robin Dutta , Department of Chemistry, TU
15-11-17, Wed	Synthesis of low cost materials for removal of fluoride from water Prof. Robin Dutta , Department of Chemistry, TU	Lunch	Practical demonstration and training Prof. Robin Dutta , Department of Chemistry, TU
16-11-17, Thu	Synthetic technique for plant-based materials for rapid water removal of heavy metals from water Prof. K. G. Bhattacharya , Department of Chemistry, GU	Lunch	Practical demonstration and training Prof. K. G. Bhattacharya , Department of Chemistry, GU
17-11-	Synthetic technique for plant-based materials for rapid removal of heavy metals from water	Lunch	Practical demonstration and training

17, Mon	Dr. Arunima Sharma , Department of Chemistry, Morigaon College, Morigaon, Assam			Dr. Arunima Sharma , Department of Chemistry, Morigaon College, Morigaon, Assam	
End of Technical Session					
20-11-17, Mon	Factory Visit	Factory Visit		Factory Visit	Factory Visit
21-11-17, Tue	Preparation of Detail Project Report Mr. Gautam Huidrom , Department of Management, RGU	Preparation of Detail Project Report Mr. Gautam Huidrom Department of Management, RGU	Lunch	Preparation of Detail Project Report Mr. Odang Tayeng Department of Management, RGU	Preparation of Detail Project Report Mr. Odang Tayeng Department of Management, RGU
22-11-17, Wed	Soft Skill for Entrepreneurship Ms. Muiyir Riba Institute of Distance Education, RGU	Soft Skill for Entrepreneurship Ms. Muiyir Riba Institute of Distance Education, RGU	Lunch	Intellectual Property Rights Mr. Arindam Garg Department of Management, RGU	Copy Rights, Trade Marks, GI etc Mr. Arindam Garg Department of Management, RGU
23-11-17, Thu	Interfacing with Leading Institutions for Business Plan Appraisal	Interfacing with Leading Institutions for Business Plan Appraisal	Lunch	Feedback from Participants	Valedictory