



TEOIP-III

RTU(ATU)

RTU (ATU) TEQIP-III sponsored Students' Workshop (Remedial Classes) On Engineering Chemistry

# Organized by

Rajasthan Technical University, Kota &

Swami Keshvanand Institute of Technology, Management & Gramothan, Jagatpura, Jaipur

# 18-22 JANUARY,2021

# TIMING: 2:00PM TO 5:00PM

NO REGISTRATION FEES

# Register at

https://docs.google.com/forms/d/e/<u>1FAIpQLScJqxL3CPxF7BPXe4eK</u> <u>SpyIYhrWUM09p</u>-bKn40zf1xB3yXx6w/viewform?usp=sf\_link

E-Certificate will be given to all the registered participants after the successful completion of workshop with 90% attendance, submission of assignments and feedback form

# REPORT OF THE WORKSHOP

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# Swami Keshvanand Institute of Technology, Management & Gramothan, Jagatpura, Jaipur

Estd:2000, Accrediated by NBA, Consecutively Fourth time Ranked No. 1 Institute in Rajasthan by Rajasthan Technical University (RTU), Kota for academic session 2020 - 2021

Tel. : +91-0141- 5160400, 2759609, 2752165 & 2752167 Fax: +91-0141-2759555, E-mail: <u>info@skit.ac.in</u>

## **NOTIFICATION OF THE WORKSHOP BY RTU KOTA**



TEQIP III-RTU(ATU) OFFICE

Phone: 0744-2473060 Fax: 2473002 Email: rtuteqip@rtu.ac.in

No. RTU/TEQIP-III/F(56)/2020-21/5939 - 43

DATE: 01 /01/2021

Hon'ble Vice-Chancellor is pleased to approve student's workshop (remedial classes) for regular and back students of affiliated colleges under subhead 1.2.2.1 of RTU (ATU) TEQIP-III Action plan as per the mentioned schedule.

S.No.	Name of college	Title	No. of Days	Proposed Dates	RTU Coordinator
1	Poornima Institute of Engineering and Technology, Jaipur	Engineering Mathematics-I	10	27/01/2021 to 05/02/2021	Dr. Kamlesh Jangid
2	Vivekananda institute of technology.jaipur	Advanced Engineering Mathematics-I	10	11/01/2021 to 20/01/2020	Dr. S.D. Purohit
3	Anand International College of Engineering, Jaipur	Engineering Physics	05	11/01/2021 to 15/01/2020	Dr. G.P. Joshi
4	Swami Keshvanand Institute of Technology, Managemet and Gramothan	Engineering Chemistry	05	18/01/2021 to 22/01/2020	Dr. Vivek Pandey

The host institutes have to advertise the workshop throughout the rajasthan. The honorarium to the experts to be provided from the TEQIP-III RTU (ATU) project as per the norms. The institute may change the event date with approval from RTU(ATU) TEQIP-III Coordinator. The respective institute has to conduct the mentioned Workshop as per the TEQIP-III norms.

Fordinator

TEQIP III, RTU (ATU)

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1. P.S. to Hon'ble Vice Chancellor

Registrar
 Comptroller

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Principal of concerned Institute through official Email.
 Guard File

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## SUPPORT SYSTEM

#### **CHIEF PATRON**

Prof. (Dr.) R.A. Gupta Honorable Vice Chancellor, RTU, Kota

#### **PATRONS**

Mr. Raja Ram Meel, Patron SKIT Jaipur Mr. Surja Ram Meel, Chairman SKIT Jaipur

#### **ADVISORY COMMITTEE**

Mr. Jaipal Meel, Director, SKIT Jaipur Prof. S.L. Surana, Dir (Acad.), SKIT Jaipur Ms. Rachna Meel, Registrar, SKIT Jaipur Prof. R.K. Pachar, Principal, SKIT Jaipur Prof. Rohit Mukherjee, Incharge B.Tech. I Year Prof. Amber Srivastava, Head TP Cell & Maths Deptt.

### RTU (ATU) TEQIP-III COORDINATOR

Prof. (Dr.)Dhirendra Mathur, Professor, RTU, Kota

#### **RTU (ATU) TEQIP-III COMMITTEE**

Prof. K D Sambariya (Nodal OfficerProcurement, RTU, Kota)Dr. Harish Sharma (Nodal Officer Academic,RTU, Kota)Dr. S.D. Purohit (Nodal Officer Finance, RTU,Kota)

### RTU EVENT COORDINATOR Prof. (Dr.) Vivek Pandey, Dean Applied Science

SKIT TEQIP-III COORDINATOR

Prof. Mukesh Gupta (Head of Deptt of CSE)

## HEAD OF CHEMISTRY DEPARTMENT (SKIT)

Dr. Sharda Soni (Associate Professor)

# SKIT JAIPUR (HOST INSTITUTE) EVENT COORDINATOR Prof. Archana Saxena Department of Chemistry, SKIT Jaipur

ORGANIZING SECRETARIES (SKIT Jaipur) Feedback , Assignment & Moderator Prof. Sangeeta Vyas, Chemistry Department Registration, Attendance & Certificate Prof. Vinita Sharma, Chemistry Department Technical Dr. Vivek Vijay, Mathematics Department Dr. Swati Joshi, Chemistry Department Dr. Poonam Ojha, Chemistry Department Invitation & Media

Dr. Anurag Sharma, Chemistry Department

### <u>CONTACT</u>

9414460650, archanasaxena@skit.ac.in



# <u>EMINENT SPEAKERS</u>

Dr. Shweta Vyas, Assistant Professor, Department of Pure and Applied Chemistry, University of Kota, Kota

Dr. Prashant Kríplaní , Assistant professor , Department of Chemistry , Govt Mahila Engineering College Ajmer

Dr. Meena Nemíwal, Assístant Professor, Department of Chemístry, MNIT, Jaípur,

Dr. Sushíl Kumar Sharma, Assístant Professor, Department of Pure and Applied Chemistry, University of Kota, Kota,

#### ABOUT RTU

Rajasthan Technical University (RTU) is located in Kota in the state of Rajasthan. It was established in 2006 by the Government of Rajasthan to enhance the technical education in the state. The university has been established in the campus of University College of Engineering,
Kota (previously known as Engineering College, Kota), which is located on the Rawatbhata
Road, about 14 kms from Kota Railway Station and 10 kms from Kota Bus Stand.

The university currently affiliates about 68 Engineering Colleges, 03 B.Arch, 16 MCA Colleges, 39 MBA Colleges, 31 M.Tech Colleges, 01 M.Arch and 01 Hotel Management and Catering Institute. More than 1.5 lacs students study in the various institutes affiliated to the University. The University aims to provide quality technical education which may help Rajasthan in it's technical development and will boost technical environment in the country.

The University offers almost all the disciplines related to technical education including Bachelor of Technology, Master of Technology, Master of Business Administration, Master of Computer Applications, and Bachelor of Hotel Management and Catering Technology. The Honb'le Governor of Rajasthan His Excellency Shri Kalraj Mishra is the Chancellor, and Prof. R. A. Gupta is the Vice-Chancellor of the University. Thousands of students graduate from the University every year and many attain post graduation. The University is making steady progress in developing and providing best technical environment for education and will continue to serve the nation in coming years.

#### **ABOUT TEQIP**

The Technical Education Quality Improvement Programme aims to upscale and support ongoing efforts of GOI to improve quality of technical education and enhance existing capacities of the institutions.

The Project, Third phase of Technical Education Quality Improvement Programme (referred to as TEQIP-III) is fully integrated with the Twelveth Five-year Plan objectives for Technical Education as a key component for improving the quality of Engineering Education in existing institutions with a special consideration for Low Income States and Special Category States (SCS) and support to strengthen few affiliated technical universities to improve their policy, academic and management practices. The Project will focus on the following objectives:

- Improving quality and equity in engineering institutions in focus states viz. 7 Low Income States (LIS), eight states in the North-East of India, three Hill states viz. Himachal Pradesh, Jammu & Kashmir, Uttarakhand and Andaman and Nicobar Islands (a union territory (UT))
- System-level initiatives to strengthen sector governance and performance which include widening the scope of Affiliating Technical Universities (ATUs) to improve their policy, academic and management practices towards affiliated institutions, and
- Twinning Arrangements to Build Capacity and Improve Performance of institutions and ATUs participating in focus states.

### ABOUT SKIT

Swami Keshvanand Institute of Technology, Management & Gramothan (SKIT) inspired from the teachings of Swami Keshvanand Ji, was established in the year 2000 by Technocrats and Managers Society for Advanced Learning. Today the institute is recognized as one of the centers of academic excellence in Northern India. The Institute is affiliated to Rajasthan Technical University, Kota for offering Ph, D, Postgraduate and Graduate Courses in Engineering and Management. Located in the Pink City Jaipur, which is a blend of traditional history and modern outlook, SKIT is putting in efforts for making industry ready engineers and managers through effective Industry – Institute Interface. Apart from University curriculum SKIT also pursues activities for research and development in various fields. Green landscaping, aesthetic elegance of arches and the vibrant pursuit of knowledge by the young aspirants make the environment serene, pleasant and dynamic.

### **DEPARTMENT OF CHEMISTRY (SKIT)**

The department has grown with strong research interests in the Physical Chemistry, Synthetic Organic Chemistry, Inorganic Chemistry, Bioorganic Chemistry and Medicinal Chemistry. The commitment to research is reflected in the research paper publications in reputed national and international journals as well as presentations of research papers in national and international conferences/ seminars. The department is well equipped to undertake projects sponsored by the Ministry of Human Resources and Development, Department of Science and Technology, and Council of Scientific and Industrial Research. The department also encourages link with industry sponsored research. The faculty has been active in organizing scientific meetings from time to time. The department has experience of successfully organizing various conferences, symposium, FDP and workshops.

#### **OBJECTIVES OF WORKSHOP**

This Workshop (Remedial classes) is aimed at providing help to those students who have back In the subject. Students who are studying in the regular classes of their Institute will have a good revision of all the content. The workshop is designed with 15 sessions. Numerical problems will also be explained in the sessions. All these students who are studying In Different RTU institutes will take these sessions and will be benefited. This Workshop (Remedial classes) will provide the participant hands-on experience with question-driven, explanations of the topics of Engineering Chemistry. The lectures and discussions will help the participants to understand important concepts of Engineering Chemistry.



E-Certificate will be given to all the registered participants after the successful completion of Workshop with 90% attendance, submission of assignments and feedback form.

## **EVENT COORDINATORS**

Name: Prof. Archana Saxsena Department: Chemistry SKIT Jaipur Contact no.: 9414460650 Mail id: archanasaxena@skit.ac.in Life Memberships: LMINDA, LMISTE, LMISC Research Interests : Complexation, Corrosion, Environment & Water Google Scholar Profile Link https://scholar.google.com/citations?user=CWtGdc wAAAAJ&hl=en



She has extensive professional experience of 25 years in the field of teaching, research and administration. She is an experienced Professor with a demonstrated history of working in the higher education industry as Head of Deptt, Dean, Incharge of many deptts like B.Tech I year, Admssion and Counseling, Extracurricular activities etc. Being Skilled in E-Learning, Lecturing, Educational Technology, Curriculum Development, and Public Speaking, she has Strong education background with M.Sc., B.Ed., Ph.D. focused in Chemistry. She possesses many research papers published in journals of repute in her account. She has authored one book on Engineering Chemistry and two books Environmental Engineering on and disaster management. She has presented many papers in conferences and seminars. She has also convened many conferences, symposium, Workshop, FDPs, and Student Induction Programmes.

#### **PRESENT STATUS:**

- PROFESSOR, Department of Chemistry
- Chief Coordinator, Alumni Cell
- Coordinator ,Entrepreneurship Cell
- Coordinator, Student Counselling
- Editor, SKIT Research Journal
- Editor, SKIT Times

Prof. (Dr.) Vivek Pandey Dean, Applied Science Rajasthan Technical University, Kota Contact no.: 8619276606, Mail id: vpandey@rtu.ac.in Research Interests: Electrochemical sensor, biosensors, analytical instrumentation, electro chemistry and environmental pollution.



He has vast experience in varied fields of academics, administration and research. He had Shouldered responsibilities like additional charge of Associate Dean Academic Affairs till 2020, Additional charge of Registrar from 21-07-2015 28-10-2015, Deputy Director, Director to Academics Office associated in the process of granting affiliation to affiliated colleges of RTU as per the guidelines of AICTE. He has been Member of Board of Studies of Biotechnology, food Technology and Chemical Technology and HVC nominee DRC Civil Engineering Department, Rajasthan Technical University, Kota. He has presented papers in many conferences and seminars. He has also convened many conferences, symposium, Workshop and FDPs, He wrote four books, published many research papers in national and international journals of repute.

### **PRESENT STATUS:**

- Professor and Head of chemistry department.
- Head Deptt of Humanities, English and Applied Science
- Dean of Applied Science.







### RTU (ATU) TEQIP-III sponsored Students' Workshop (Remedial Classes) On Engineering Chemistry 18/01/2021 – 22/01/2021 <u>ANNOUNCEMENT OF THE WORKSHOP</u>

### **Dear Students**

**Greetings!** 

We are pleased to inform you that Rajasthan Technical University, Kota and Swami Keshvanand Institute of Technology, Management & Gramothan, Jagatpura, Jaipur is organizing RTU (ATU) TEQIP-III sponsored Students' Workshop (Remedial Classes) On Engineering Chemistry on 18/01/2021 - 22/01/2021.

This Workshop (Remedial classes) on Engineering Chemistry is aimed at providing help to all the students (Regular and back). Students who are studying in the regular classes of their Institute will have a good revision of all the content and will be benefited. The workshop is designed with 15 sessions. Numerical problems will also be explained and discussed in the sessions. This Workshop (Remedial classes) will provide the participant hands-on experience with question-driven, explanations of the topics of Engineering Chemistry. The lectures and discussions will help the participants to understand important concepts of Engineering Chemistry. They will be encouraged to ask problems.

# All the students who are studying in different RTU

# institutes are invited to attend the Workshop.

NO REGISTRATION FEES

E-Certificate will be given to all the registered participants after the successful completion of FDP with 90% attendance, submission of assignments and feedback form

### Register at

https://docs.google.com/forms/d/e/1FAIpQLScJqxL3CPxF7BPXe4eKSpyIYhr WUM09p-bKn40zf1xB3vXx6w/viewform?usp=sf\_link

### **Contact**

Prof. Archana Saxena, Event Coordinator, 9414460650, archanasaxena@skit.ac.in

Dr. Sharda Soni Head, Chemistry Department SKIT Jaipur Prof. (Dr. ) Vivek Pandey Dean, Applied Science Event Coordinator Rajasthan Technical University, Kota

Prof. Archana Saxena, Chemistry Department Event Coordinator SKIT Jaipur





TEQIP-III RTU(ATU)

RTU (ATU) TEQIP-III sponsored

### Students' Workshop (Remedial Classes) On Engineering Chemistry

18/01/2021 - 22/01/2021

**ACKNOWLEDGE OF REGISTRATION** 

Dear Students Greetings!

### Welcome to the workshop.

This Workshop (Remedial classes) on Engineering Chemistry is aimed at providing help to all the students (Regular and back). Students who are studying in the regular classes of their Institute will have a good revision of all the content and will be benefited. The workshop is designed with 15 sessions. Numerical problems will also be explained and discussed in the sessions. This Workshop (Remedial classes) will provide the participant hands-on experience with question-driven, explanations of the topics of Engineering Chemistry. The lectures and discussions will help the participants to understand important concepts of Engineering Chemistry. They will be encouraged to ask problems.

#### **NO REGISTRATION FEES**

# E-Certificate will be given to all the registered participants after the successful completion of FDP with 90% attendance, submission of assignments and feedback form

Date	Attendee link PASSWORD - 1234
18/01/2021	https://skitjaipur.webex.com/skitjaipur/onstage/g.php?MTID=e685bd401489e8000
	da1cc614cacae2f9
19/01/2021	https://skitjaipur.webex.com/skitjaipur/onstage/g.php?MTID=ecb55bb0592464ddb
	<u>78b44f4d08501f56</u>
20/01/2021	https://skitjaipur.webex.com/skitjaipur/onstage/g.php?MTID=e647587a168ba0ad7
	<u>2de9361141640a9c</u>
21/01/2021	https://skitjaipur.webex.com/skitjaipur/onstage/g.php?MTID=eda5dd40d9f9b5298
	2c9cf03fd8dfe321
22/01/2021	https://skitjaipur.webex.com/skitjaipur/onstage/g.php?MTID=e8e0eda0bdb4022aff
	6063825ca5b4451

Contact

archanasaxena@skit.ac.in

Prof. (Dr.) Vivek Pandey Dean, Applied Science Event Coordinator Rajasthan Technical University, Kota Prof. Archana Saxena Chemistry Department Event Coordinator SKIT Jaipur



## RTU (ATU) TEQIP-III sponsored



# Students' Workshop (Remedial Classes) On Engineering Chemistry 18/01/2021 – 22/01/2021 On-line mode, CISCO - WEBEX

# **PROGRAMME SCHEDULE**

Day – 1	Session I : 02:00pm –03:00pm				
	Dr. Dhirendra Mathur, Professor, RTU, Kota as Chief Guest				
18 <sup>th</sup> Jan 2021 Monday	Session II : 3:00pm – 04:00pm				
•	Dr. Shweta Vyas, Assistant Professor, Department of Pure and Applied Chemistry,				
	University of Kota, Kota, 9460427477,				
	Lecture – 1: Hardness, determination of hardness by complexometric (EDTA method), with numerical				
	Session III : 04:00pm –05:00pm				
	Dr. Prashant Kriplani , Assistant professor , Department of Chemistry				
	Govt mahila engineering college Ajmer ,				
	<b>Lecture – 2:</b> Gross and Net Calorific value, Determination of Calorific value of coal by				
	Bomb Calorimeter with numerical.				
Day – 2	Session VI : 02:00pm –03:00pm				
19 <sup>th</sup> Jan 2021	Dr. Shweta Vyas, Assistant Professor, Department of Pure and Applied Chemistry, University of Kota, Kota, 9460427477, <u>shwetavyas@uok.ac.in</u>				
Tuesday	Lecture - 3: Zeolite (Permutit) process with numerical, Demineralization process				
,	Session IV : 3:00pm – 04:00pm				
	Dr. Prashant Kriplani, Assistant professor, Department of Chemistry				
	Govt mahila engineering college Ajmer				
	Lecture – 4: Coal, Proximate and Ultimate analyses of coal and its significance,				
	Metallurgical coke, Carbonization processes; Otto-Hoffmann by-product oven				
	method.				
	Session V : 04:00pm –05:00pm				
	Dr. Meena Nemiwal, Assistant Professor, Department of Chemistry, MNIT, Jaipur, 9460100020,				
	Lecture – 5: Determination of calorific value of gaseous fuels by Junker's calorimeter				
	with numerical, Manufacture and Properties of Coal Gas and Oil Gas				
Day – 3	Session VI : 02:00pm –03:00pm				
	Dr. Shweta Vyas, Assistant Professor, Department of Pure and Applied Chemistry,				
20 <sup>th</sup> Jan 2021	University of Kota, Kota, 9460427477, <u>shwetavyas@uok.ac.in</u>				
Wednesday	Lecture – 6: Municipal Water Supply: Sedimentation, Filtration, Disinfection by				
-	chlorination and break point chlorination				
	SessionVII : 3:00pm – 04:00pm				
	Dr. Sushil Kumar Sharma, Assistant Professor, Department of Pure and Applied				
	Chemistry, University of Kota, Kota, 9413561491, <u>sksharmauok@gmail.com</u>				
	Lecture – 7: Degree of hardness, Lime-Soda process of softening of hard water with				
	numerical				

	Session VIII : 04:00pm –05:00pm
	Dr. Meena Nemiwal, Assistant Professor, Department of Chemistry, MNIT, Jaipur,
	9460100020, meena.chy@mnit.ac.in
	Lecture – 8: Cracking, Synthetic petrol, Knocking, Octane number, Anti-knocking
	agents
Day – 4	Session IX : 02:00pm –03:00pm
	Dr. Meena Nemiwal, Assistant Professor, Department of Chemistry, MNIT, Jaipur,
21 <sup>st</sup> Jan 2021	9460100020, meena.chy@mnit.ac.in
Thursday	Lecture – 9: Calculations on Combustion & Dulong's formula Session X : 3:00pm – 04:00pm
	Dr. Sushil Kumar Sharma, Assistant Professor, Department of Pure and Applied Chemistry, University of Kota, Kota, 9413561491, <u>sksharmauok@gmail.com</u>
	<b>Lecture – 10:</b> Definition, Mechanism of chemical and electrochemical corrosion,
	protective coatings- galvanization and tinning, cathodic protection, sacrificial anode
	and modifications in design
	Session XI : 04:00pm –05:00pm
	Dr. Shweta Vyas, Assistant Professor, Department of Pure and Applied Chemistry,
	University of Kota, Kota, 9460427477, <u>shwetavyas@uok.ac.in</u>
	Lecture – 11: Definition, Manufacturing by Rotary kiln. Chemistry of setting and
	hardening of cement. Role of Gypsum. Glass: Definition, Manufacturing by tank
	furnace, significance of annealing, Types and properties of soft glass
Day – 5	Session IX : 02:00pm –03:00pm
	Dr. Prashant Kriplani , Assistant professor , Department of Chemistry
22 <sup>nd</sup> Jan 2021	Govt mahila engineering college Ajmer, prashantkriplani@gweca.ac.in
Friday	Lecture – 12: Organic reaction mechanism with examples: Substitution, Elimination,
	Addition & Rearrangement
	Session IX : 03:00pm –04:00pm
	Dr. Sushil Kumar Sharma, Assistant Professor, Department of Pure and Applied
	Chemistry, University of Kota, Kota, 9413561491, <u>sksharmauok@gmail.com</u>
	Lecture – 13: Lubricants: Classification, Mechanism, Properties; Viscosity and viscosity
	index, flash and fire point, cloud and pour point
	Session IX : 04:00pm -05:00pm
	Valedictory Session Feedback and Assignments

Qu

Prof. Dr. Vivek Pandey Dean Applied Science Event Coordinator Rajasthan Technical University, Kota 8619276606, <u>vpandey@rtu.ac.in</u> Sihara.

Prof. Arcnana Saxena Chemistry Department, SKIT Jaipur Event Coordinator, SKIT Jaipur 9414460650, <u>archanasaxena@skit.ac.in</u>

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Prof. Ramesh Kumar Pachar Principal SKIT Jaipur

### **BROCHURE**

CHIEF PATRON

Prof. (Dr.) R.A. Gupta He norable Vice Chancellor, RTU, Kota PATRONS Mr. Raja Ram Mool, Patron SKIT Jaipur Mr. Surja Ram Mool, Chairman SKIT Jaipur ADVISORY COMMITTEE Mr. Jaipal Moel, Director, SEIT Jaiput Prof. S.L. Surana, Dir (Acad.), SKIT Jaipur Ms. Rachma Mool, Registrar, SKIT Jaipur Prof. R.K. Pachar, Principal, SKIT Jaipor Prof. Rohit Mukharjee, Incharge B. Tech. I Year Prof. Amber Srivastava, Head TP Cell & Maths Deptt. RTU (ATU) TEQIP-III COORDINATOR Prof. (Dr.)Dhirandra Mathur, Professor, RTU, Kota RTU (ATU) TEQIP-III COMMITTEE Prof. K.D. Sambariya (Nodal Officer Procurement, RTU, Kota) Dr. Harish Shanna (Nodal Officer Academic, RTU, Kota) Dr. S.D. Purchit (Nodal Officer Finance, RTU, Kota) RTU EVENT COORDINATOR Prof. (Dr.) Vivek Pandey, Dean Applied Scia Rajasthan Technical University, Kota SKIT TEQIP-III COORDINATOR Prof. Mukash Gupta (Head of Deptt of CSE) HEAD OF CHEMISTRY DEPARTMENT (SKIT) Dr. Sharda Soni (Associate Professor) SKIT JAIPUR (HOST INSTITUTE) EVENT COORDINATOR Prof. Archana Sanana Department of Chemistry, SKIT Jaipur ORGANIZING SECRETARIES (SKIT Jaipur) Feedback, Assignment & Moderstor Prof. Sangoeta Vyas, Chamistry Departm Registration, Attendance & Certificate Prof. Vinita Sharma, Cha anistry Departm Technical Dr. Vivek Vijay, Mathematics Departm Dr. Swati Joshi, Chamistry Depart Dr. Poonam Ojha, Chemistry Department Invitation & Media Dr. Anurag Sharma, Chamistry Departm

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Dr. Prashant Kriplani , Assistant professor , Department of Chemistry , Govt Mahila Engineering College Ajmer

Dr. Meena Nemiwal, Assistant Professor, Department of Chemistry, MNIT, Jaipur,

Dr. Sushil Kumar Sharma, Assistant Professor, Department of Pure and Applied Chemistry, University of Kota, Kota,

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CONTACT

9414460650, archanasaxena@skit.ac.in



RTU (ATU) TEQIP-III SPONSORED STUDENTS' WORKSHOP (REMEDIAL CLASSES) ON ENGINEERING CHEMISTRY

18/01/2021 - 22/01/2021

ORGANIZED BY Rajasthan Technical University, Kom

#### æ

Swami Keshvanand Institute of Technology, Management & Gramothan, Jagatpura, Jaipur

SEIT has been ranked number 1 consecutively for the fourth year in a row in Engineering program in Rajasthan by Rajasthan Jechnical University, Kota



On-line mode, CISCO - WEBEX

NO REGISTRATION FEES

#### REGISTER AT

http://docs.google.com/form:/d/e/IFAIpQLScJqzL3CPxF 7BPXe4eKSprIYhrWUM09gbKn40zf1xB3vXxfw/viewform?usp=sf\_link

#### ABOUT RTU

Rajasthan Technical University (RTU) is located in Kota in the state of Rajasthan. It was established in 2006 by the Government of Rajasthan to enhance the technical education in the state. The university currently affiliates about 129 Engineering Colleges,04 B.Arch. 41 MCA Colleges, 95 MBA Colleges, 44 M.Tech Colleges and 03 Hotel Management and Catering Institute. More than 2.5 lacs students study in the various institutes affiliated to the University

#### ABOUT TEOIP

The Technical Education Quality Improvement Programme aims to upscale and support ongoing efforts of GOI to improve quality of technical education and enhance existing capacities of the institutions. The Project, TEQIP-III is fully integrated with the Twelfth Five-year Plan objectives for Technical Education as a key component for improving the quality of Engineering Education in existing institutions.

#### ABOUT SKIT

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#### DEPARTMENT OF CHEMISTRY (SKIT)

The department has grown with strong research interests in the Physical Chemistry. Synthetic Organic Chemistry. Inorganic Chemistry, Bioorganic Chemistry and Medicinal Chemistry. The commitment to research is reflected in the research paper publications in reputed national and international journals as well as presentations of research papers in national and international conferences/ seminars. The department is well equipped to undertake projects sponsored by the Ministry of Human Resources and Development, Department of Science and Technology, and Council of Scientific and Industrial Research. The department also encourages link with industry sponsored research. The faculty has been active in organizing scientific meetings from time to time. The department has experience of successfully organizing various conferences, symposium, FDP and workshops.

#### PROGRAMME SCHEDULE (On-line mode, CISCO - WEBEX) Day -1, 18th Jan 2021, Monday

Session II : 02:00pm -03:00pm Inaugu Session II : 3:00pm - 04:00pm Dr. Shurara 1 Dr. Shweta Vyas, Assistant Professor, Department of Pure and Applied Chemistry, University of Kota Lecture - 1: Hardness, determination of hardness by complexometric (EDTA method), with mmerical Session III : 04:00pm -05:00pm Dr. Prashant Kriplani , Assistant professor , Department of Chemistry Govt. Mahila Engineering College Ajmer Lecture - 2: Gross and Net Calorific value. Determination of Calorific

value of coal by Bomb Calorimeter with numerical

Day - 2, 19th Jan 2021, Tuesday Session IV : 02:00pm -03:00pm Dr. Shweta Vyas, Assistant Professor, Department of Pure and Applied Chemistry, University of Kota, Kota Lecture - 3: Zeolite (Permutit) process with num Demineralization process Session V: 3:00pm-04:00pm Dr. Prashant Kriplani , Assistant professor , Department of Chemistry Govt. Mahila Engineering College Ajmer Lecture - 4: Proximate and Ultimate analyses of coal Carbonization

processes: Otto-Hoffmann by-product oven method Session VI: 04:00pm -05:00p Dr. Meena Nemiwal, Assistant Professor, Department of Chemistry,

MNIT, Jaipur Lecture - 5: Determination of calorific value of gaseous fuels by

Junker's calorimeter with numerical, Coal Gas and Oil Gas

# Day - 3, 20th Jan 2021, Wednesday Session VII : 02:00mm -03:00mm

Dr. Shweta Vyas, Assistant Professor, Department of Pare and Applied Chemistry, University of Kota Lecture - 6: Sedimentation, Filtration, Disinfection of petable

water and break point chlorination

Session VIII : 3:00pm - 04:00pm

Dr. Sushil Kumar Sharma, Assistant Professor, Department of Pure and Applied Chemistry, University of Kota

Lecture - 7: Degree of hardness. Lime-Soda process of softening of hard water with numerical

Session IX: 04:00pm -05:00p

Dr. Meena Nemiwal, Assistant Professor, Department of Chemistry, MNIT, Jaipur

Lecture - 8: Cracking, Synthetic petrol. Knocking. Octane number. Anti-knocking agent

Dav - 4, 21st Jan 2021, Thursday Session X : 02:00pm -03:00pm Dr. Meena Nemiwal, Assistant Professor, Department of Chemistry, MNIT, Jaipur

Lecture – 9: Calculations on Combustion & Dulong's formula Session XI : 3:00pm – 04:00pm

Dr. Sushil Kumar Sharma, Assistant Professor, Department of Pure and Applied Chemistry, University of Kota

Lecture - 10: Chemical and Electrochemical corrosion protective coatings, protection, sacrificial anode

Session XII: 04:00pm -05:00pm

Dr. Shweta Vyas, Assistant Professor, Department of Pure and Applied Chemistry, University of Kota Lecture - 11: Manufacturing of Cement by Rotary kiln.

Manufacturing of Glass by tank furnace. Annealing, Soft glass

# Dav - 5, 22nd Jan 2021, Friday Session XIII: 02:00pm -03:00nm

Dr. Prashant Kriplani . Assistant professor . Department of Chemistry Govt. Mahila Engineering College Ajmer Lecture - 12: Organic reaction mechanism with examples: Substitution, Elimination, Addition & Rearrangement Session XIV : 03:00pm -04:00pm Dr. Sushil Kumar Sharma, Assistant Professor, Department of Pure and Applied Chemistry, University of Kota, Kota, Lecture - 13: Lubricants: Mechanism. Viscosity and viscosity. index, flash and fire point, cloud and pour point Session XV : 04:00pm -05:00pm Valedictory Session. Feedback and Assignments

### **REPORT OF THE WORKSHOP**

India is developing very fast and is leaving a good impression on global society. Science and technology have profound impact on all human activities which can be used in any enterprise. There is hardly any part of life that is not influenced, in one way or the other, by science and technology. Therefore Science becomes very important especially for engineers who will create maintain and manage the technology. Therefore all the imp subjects like phy, chem. & maths are kept in the B.Tech. I Year Syllabus.

#### Inauguration

On 18/01/2021 The workshop begane with the inauguration. Prof. Sangeeta Vyas (Dept of Chemestry , SKIT Jaipur) welcomed all the eminent guests, expert speakers and participants of the event.

In his address Prof. S.L. Surana, Director Academics, SKIT Jaipur emphasized the importanc and relevance of chemistry in all scientific endeavors and expected the positive anf fruitful outcomes of the event.

Prof Archana Saxena coordinator of this event addressed about objectives and schedule of the workshop.

Chief guest Prof. Dhirendra Mathur, Professor, RTU, Kota congratulated the organizers and team for organizing this event on such a most relevant subject.

Prof. Vivek Pandey Dean Applied Science and coordinator of this event also thrown light on the objectives of the workshop. Dr. S. D. Purohit (TEQIP Acad) also graced the occasion.

The programme ended with the vote of thanks by Dr. ShardaSoni HOD Chemistry Dept Further on all the days lectures were held.

### **Lecture Sessions**

On all the units of Engineering Chemistry Water, Fuels, Cement, Glass, Lubricants, Corrosion and Organic Reaction Mechanism thirteen lectures were held. Concept clarification, numerical problems, derivations etc were explained with the help of neat and well labeled diagrams made on wonderful ppts.

This workshop proved a success with lectures of the following faculty members Dr. ShwetaVyas, Assistant Professor, Department of Pure and Applied Chemistry, University of Kota, Kota, 9460427477, shwetavyas@uok.ac.in Dr. PrashantKriplani , Assistant professor , Department of Chemistry , GovtMahila Engineering College Ajmer , 9829149706, prashantkriplani@gweca.ac.in

Dr. MeenaNemiwal, Assistant Professor, Department of Chemistry, MNIT, Jaipur, 9460100020, meena.chy@mnit.ac.in

Dr. Sushil Kumar Sharma, Assistant Professor, Department of Pure and Applied Chemistry, University of Kota, Kota, 9413561491, sksharmauok@gmail.com

### Valedictory

Prof. Vivek Pandey Dean Applied Science and coordinator of this event thanked all the participants and exoerts and organizing team for success of this event.

Many students shared their views. Some of the feedback was also written on chats . All the experts shared their experiences and assured the students to send study material as ppts. HOD of chem. Dept SKIT Jaipur Dr. Sharda Soni delivered vote of thanks.

### **Outcomes of Workshop**

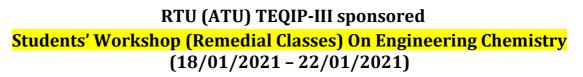
We are sure that this Workshop (Remedial classes) helped regular and back students and students who have admitted late In the Different Institute's of RTU. Students who are studying in the regular classes of their Institute also had a good glance of all the content. The workshop had 15 sessions including 13 Lectures which were delivered by four guest eminent speakers. Numerical problems were also explained in the sessions. This Workshop provided the participant hands-on experience with question-driven, explanations of the topics of Engineering Chemistry. The lectures and discussions helped the participants to understand important concepts of Engineering Chemistry. Students asked their doubts and problems.

No Registration Fees was charged from the students

These 5 days were full of interesting deliberations and discussions.

A link for assignment and feedback was mailed to all the students. E-Certificate were given to all the registered participants who have good attendance after we receive their assignments and feedback form





# <u>INAUGURATION</u>

18/01/2021 On-line mode, CISCO – WEBEX at 2:30pm

## MINUTE TO MINUTE PROGRAMME SCHEDULE

Welcome Note by Prof. (Dr.) Sangeeta Vyas, Department of Chemistry, SKIT Jaipur	5 Min
About Workshop By Prof. (Dr.) Archana Saxena, Department of	5 Min
Chemistry, SKIT Jaipur, Event Coordinator (SKIT Jaipur)	5 14111
Address by Prof. (Dr.) S.L. Surana, Dir (Academics), SKIT Jaipur	10 Min
Address by Prof. (Dr.) Vivek Pandey, Dean Applied Science Rajasthan Technical University, Kota, Event Coordinator (RTU Kota)	5 Min
Address by Chief Guest Prof. (Dr.) Dhirendra Mathur, Coordinator & Head TEQIP-III, RTU, Kota	10 Min
Vote of thanks by Dr. Sharda Soni (Associate Professor) Head of chemistry department SKIT, Jaipur	5 Min

# Link to join Inauguration session as Panelist

https://skitjaipur.webex.com/skitjaipur/onstage/g.php?MTID=e49fc5cd0cd04e1f53c32cc557d99b4c9
Password – 1234

## Link to join Inauguration session as Attendee

https://skitjaipur.webex.com/skitjaipur/onstage/g.php?MTID=e685bd401489e8000da1cc614cacae2f9
Password – 1234







RTU (ATU) TEQIP-III sponsored

Students' Workshop (Remedial Classes) On Engineering Chemistry (18/01/2021 – 22/01/2021)

# VALEDICTORY PROGRAMME

# $\label{eq:22} 22/01/2021$ On-line mode, CISCO – WEBEX at 4:30pm

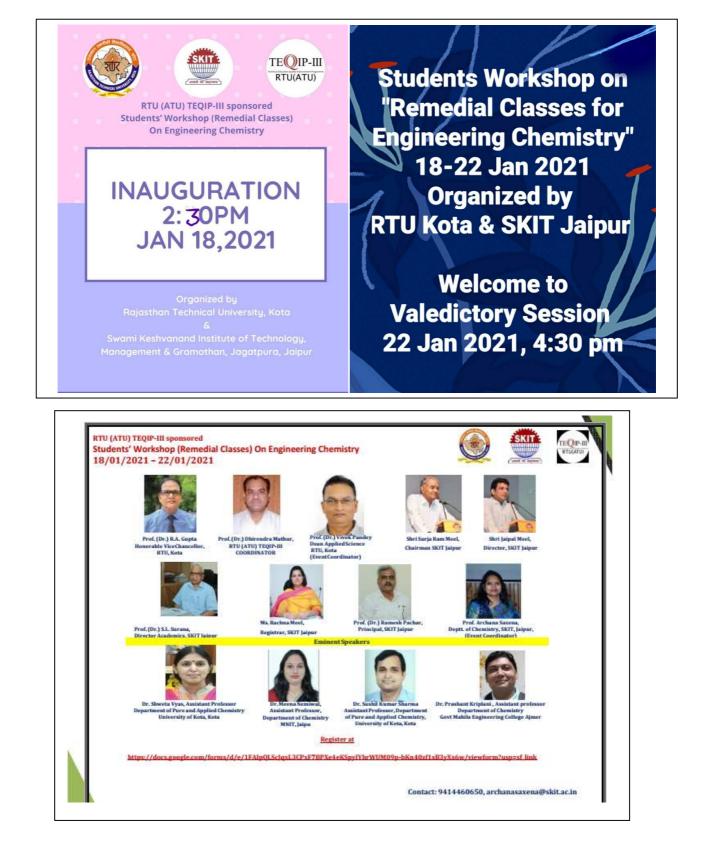
# MINUTE TO MINUTE PROGRAMME SCHEDULE

Welcome Note by Prof. (Dr.) Sangeeta Vyas, Department of Chemistry, SKIT Jaipur	5 Min
Report of 5 days Workshop By Prof. (Dr.) Archana Saxena, Department of	5 Min
Chemistry, SKIT Jaipur, Event Coordinator (SKIT Jaipur)	
Feedback by Students	10 Min
Address by Prof. (Dr.) Vivek Pandey, Dean Applied Science Rajasthan	5 Min
Technical University, Kota, Event Coordinator (RTU Kota)	
Address by Chief Guest Prof. (Dr.) Rohit Mukherjee, Incharge B.Tech. I Year, SKIT Jaipur	5 Min
Vote of thanks by Dr. Sharda Soni (Associate Professor) Head of chemistry department SKIT, Jaipur	5 Min

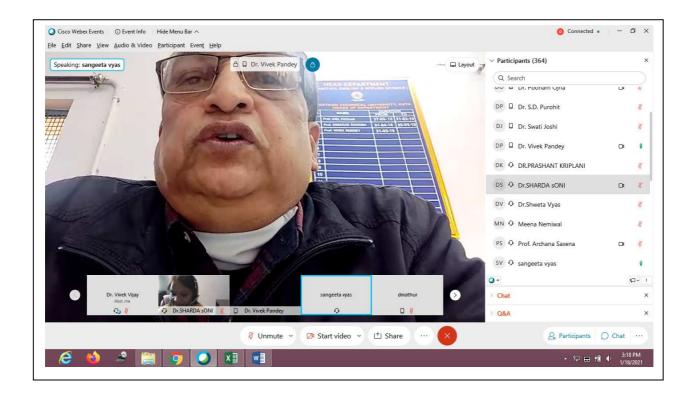
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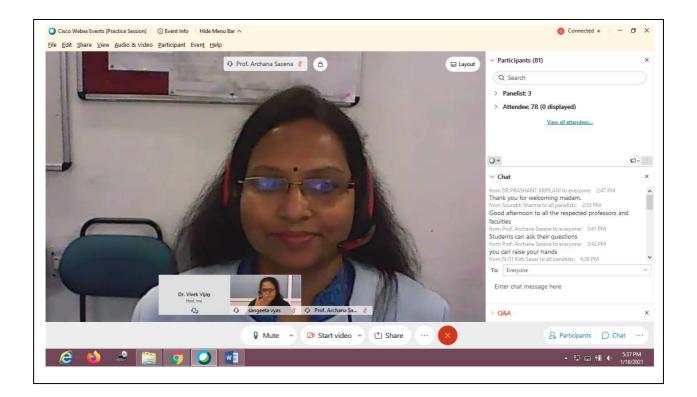
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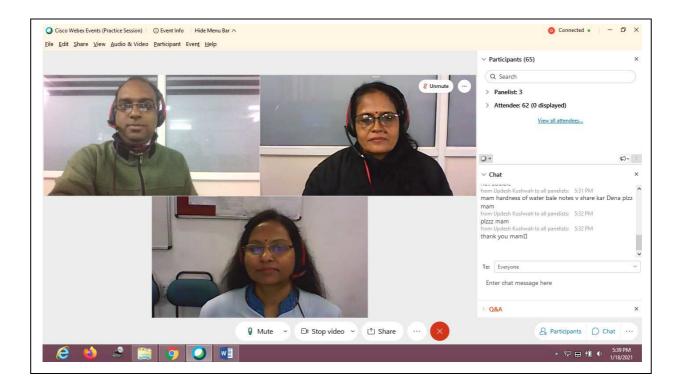
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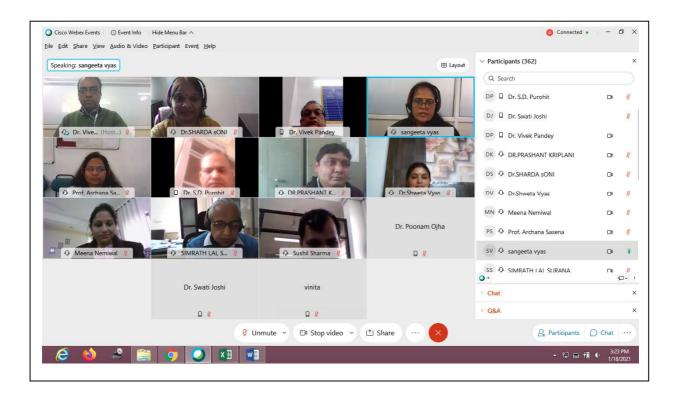


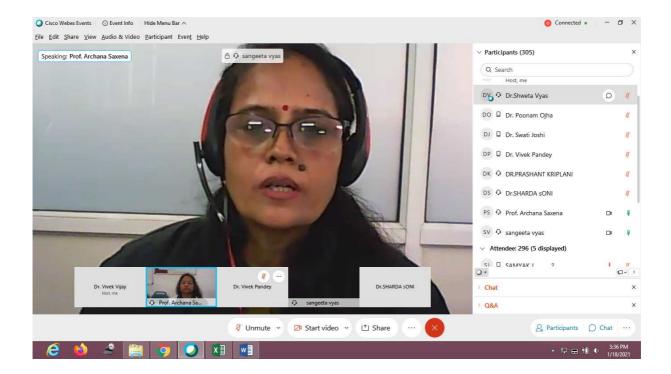
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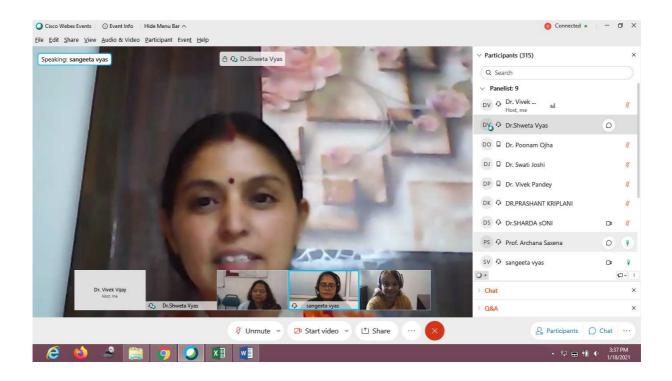


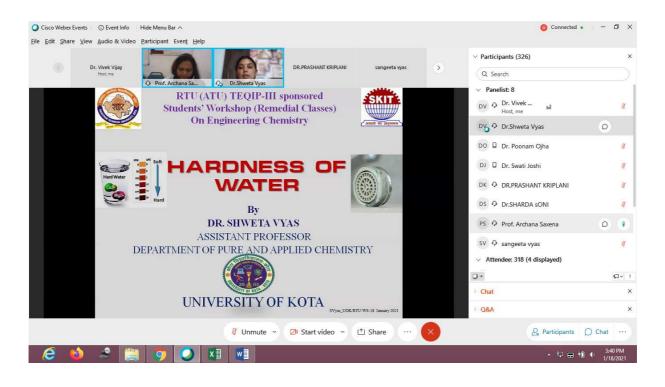






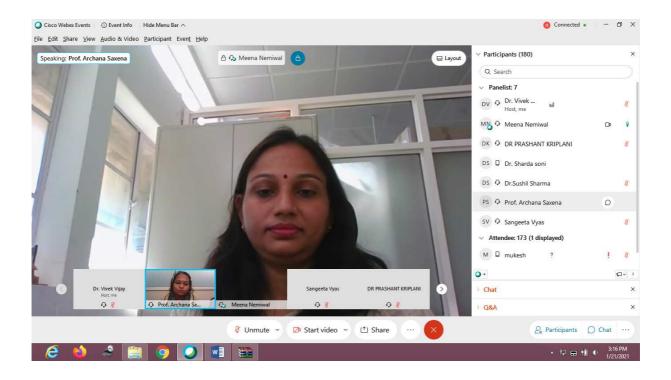


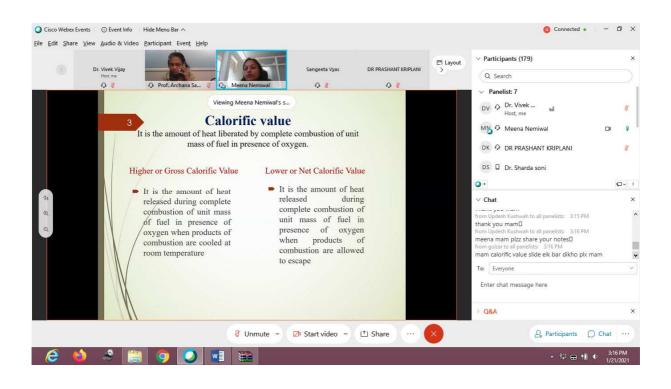






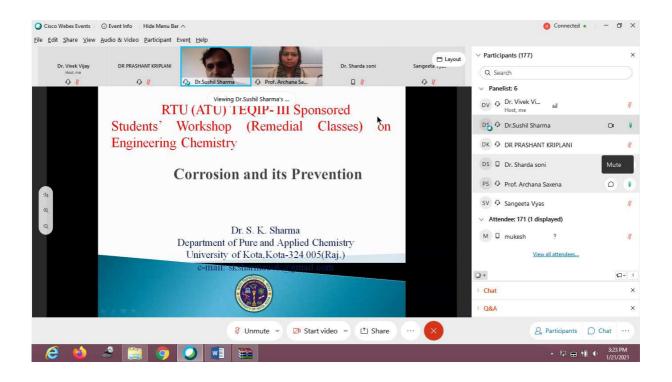






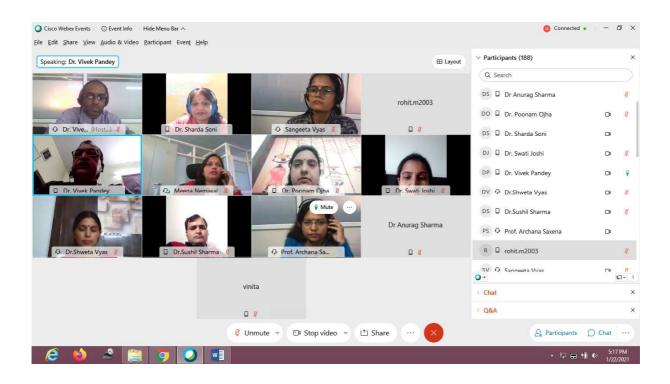
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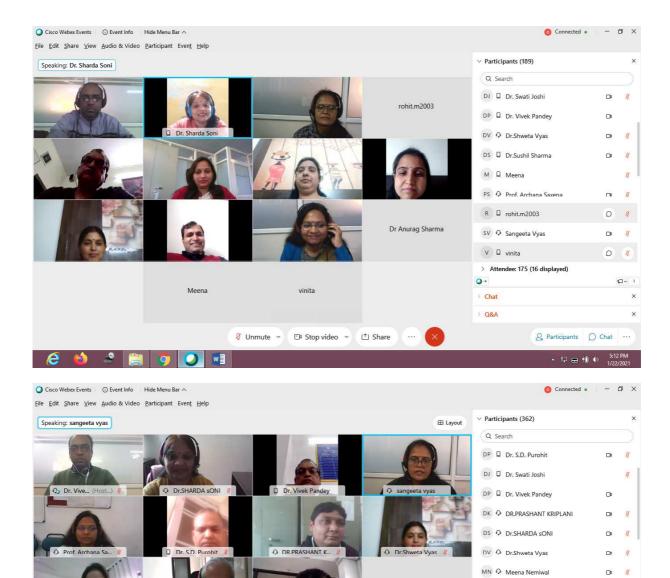
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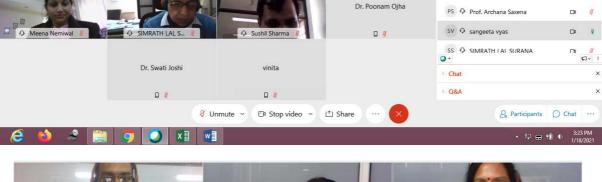




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## **NEWS**

# एसकेआईटी में पांच दिवसीय टीईक्यूआईपी स्पॉन्सर्ड स्टूडेंट वर्कशॉप का शुभारम्भ



स्वामी केशवानंद जयपुर। इंस्टीटयुट टेक्नोलॉजी ऑफ मैनेजमेंट एंड ग्रामोत्थान (एस.के.आई.टी) रामनगरिया. जगतपुरा, जयपुर को सोमवार 18 जनवरी 2021 को रसायन शास्त्र विभाग के द्वारा पांच दिवसीय टीईक्यूआईपी स्पॉन्सर्ड स्टूडेंट वर्कशॉप का शुभारम्भ हुआ। इसका विषय इंजीनियरिंग केमिस्ट्री ( रेमेडिअल क्लासेज) था। इस कार्यक्रम के मुख्य अधिति प्रो. (डॉ) धीरेन्द्र माथुर कोऑर्डिनेटर एंड हैड टीईक्यूआईपी आरटीयू, कोटा थे। कार्यक्रम की शुरूआत में प्रो. संगीता व्यास डिपार्टमेंट ऑफ केमिस्ट्री ने सभी आगंतुओ का स्वागत किया। इसके बाद प्रोग्राम की संयोजक प्रो. अर्चना सक्सेना ने पांच दिवसीय कार्यशाला के के बारे में विस्तार से बताया। संस्था के डायरेक्टर एकेडमिक्स डॉ एस.एल. सुराना ने इस कार्यशाला को स्टूडेंट्स के लिए लाभकारी बताया। इस अवसर पर प्रो. (डॉ) विवेक पांडे इवेंट कोऑर्डिनेटर आरटीयू, कोटा ने भी अपने विचार रखे। अंत में केमिस्ट्री डिपार्टमेंट की हैड डॉ शारदा सोनी ने धन्यवाद ज्ञापित किया।



# एसकेआईटी मे पांच दिवसीय टीईक्यूआईपी स्पॉन्सर्ड स्टूडेंट वर्कशॉप का शुभारम्भ

शुरुवात में प्रो. संगीता व्यास डिपार्टमेंट ऑफ़ केमिस्ट्री ने सभी आगंतुओ का स्वागत किया।

इसके बाद प्रोग्राम की संयोजक प्रो. अर्चना सक्सेना ने पांच दिवसीय कार्यशाला के के बारे में विस्तार से बताया ढूसंस्था के डायरेक्टर एकेडमिक्स डॉ एस.एल. सुराना ने इस कार्यशाला को स्टूडेंट्स के लिए लाभकारी बताया ढू इस अवसर पर प्रो. (डॉ) विवेक पांडे इवेंट कोऑर्डिनेटर आरटीयू, कोटा ने भी अपने विचार रखे ढू अंत में केमिस्ट्री डिपार्टमेंट की हैड डॉ शारदा सोनी ने धन्यवाद ज्ञापित किया ढू

P3 Police Public Politics जयपुर । स्वामी केशवानंद इंस्टीट्यूट ऑफ़ टेक्नोलॉजी मैनेजमेंट एंड ग्रामोत्थान (एस.के.आई.टी) रा

स. .... शास्त्र विभाग के द्वारा पांच दिवसीय टीईक्यूआईपी स्पॉन्सर्ड स्टूडेंट वर्कशॉप का शुभारम्भ हुआ ढ्रु इसका विषय इंजीनियरिंग केमिस्ट्री ( रेमेडिअल क्लासेज) था ढ्रु इस कार्यक्रम के मुख्य अथिति प्रो. (डॉ) धीरेन्द्र माथुर कोऑर्डिनेटर एंड हैड टीईक्यूआईपी आरटीयू, कोटा रहे ढ्रु कार्यक्रम की

# एसकेआईटी में टीईक्यूआईपी स्पॉन्सर्ड स्टूडेंट वर्कशॉप का समापन



जयपुर (कासं.)। स्वामी केशवानंद इंस्टीट्यूट ऑफ टेक्नोलॉजी मैनेजमेंट एंड ग्रामोत्थान (एस.के.आई.टी) रामनगरिया, जगतपुरा, जयपुर में आरटीयू कोटा व एस.के.आई.टी के संयुक्त तत्वाधान में पांच दिवसीय टीईक्यूआईपी स्पॉन्सर्ड स्टूडेंट वर्कशॉप का समापन हुआ। इसका विषय 'रेमेडिअल क्लासेज फॉर इंजीनियरिंग' था। मुख्य अतिथि इंचार्ज बीटेक फर्स्ट इयर प्रो. (डॉ) रोहित मुखर्जी थे।

कार्यक्रम की शुरुआत में प्रो. (डॉ) संगीता व्यास डिपार्टमेंट ऑफ केमिस्ट्री ने सभी आगंतुओ का स्वागत किया। इसके बाद प्रोग्राम संयोजक प्रो. (डॉ) अर्चना सक्सेना ने पांच दिवसीय कार्यशाला की रिपोर्ट प्रस्तुत की व स्टूडेंट्स के फीडबैक को शेयर करते बताया कि सभी स्टूडेंट्स ने इस कार्यशाला को फायदेमंद बताया। डायरेक्टर एकेडमिक्स डॉ एस.एल. सुराना ने इस तरह की कार्यशालाओं का आयोजन भविष्य में भी करवाने की बात बोली। इस अवसर पर प्रो. (डॉ) विवेक पांडे इवेंट कोऑर्डिनेटर आरटीयू , कोटा ने बताया कि अभी ये शुरुआत है, आगे भी एसे आयोजन किए जाएंगे। केमिस्ट्री डिपार्टमेंट की हैड डॉ शारदा सोनी ने धन्यवाद ज्ञापित किया।



# एसकेआईटी में पांच दिवसीय टीईक्यूआईपी स्पॉन्सर्ड स्टूडेंट वर्कशॉप का समापन

जयपुर । स्वामी केशवानंद इंस्टीट्यूट ऑफ़ टेक्नोलॉजी मैनेजमेंट एंड ग्रामोत्थान (एस.के.आई.टी) रामनगरिया, जगतपुरा, जयपुर में आरटीयू कोटा व एस.के.आई.टी के संयुक्त तत्वाधान में पांच दिवसीय टीईक्यूआईपी स्पॉन्सर्ड स्टूडेंट वर्कशॉप का समापन हुआ । इसका विषय ÷रेमेडिअल क्लासेज फॉर इंजीनियरिंग÷ था । इस कार्यक्रम के मुख्य अथिति इंचार्ज बीटेक फर्स्ट इयर प्रो. (डॉ) रोहित मुखर्जी थे ।

कार्यऋम की शुरुवात में प्रो. (डॉ) संगीता व्यास डिपार्टमेंट ऑफ़ केमिस्ट्री ने सभी आगंतुओ का स्वागत किया ढू इसके बाद प्रोग्राम की संयोजक प्रो. (डॉ)

अर्चना सक्सेना ने पांच दिवसीय कार्यशाला की रिपोर्ट प्रस्तुत की व स्ट्रडेंट्स के फीडबैक को शेयर करते बताया की सभी स्टूडेंट्स ने इस कार्यशाला को फायदेमंद बताया ढू डायरेक्टर एकेडमिक्स डॉ एस.एल. सुराना ने इस तरह की कार्यशालाओं का आयोजन भविष्य में भी करवाने की बात बोली ढू इस अवसर पर प्रो. (डॉ) विवेक पांडे इवेंट कोऑर्डिनेटर आरटीयू , कोटा ने बताया की अभी ये शुरुवात है, आगे भी एसे आयोजन करे जायेंगे ताकि स्ट्रडेंट्स अधिक से अधिक लाभान्वित हो दू अंत में केमिस्ट्री डिपार्टमेंट की हैड डॉ शारदा सोनी ने धन्यवाद ज्ञापित किया ढू इस कार्यशाला के दोरान डॉ विवेक विजय असिस्टेंट प्रोफेसर ने टेक्निकल टीम को लीड किया

# पांच दिवसीय टीईक्यूआईपी स्पॉन्सर्ड स्टूडेंट वर्कशॉप का आयोजन

जसपुर। स्वामी केशवानंद इंस्टीट्यूट ऑफ टेक्नोलॉजी मैनेजमेंट एंड ग्रामोत्थान के रसायन शास्त्र विभाग की ओर से पांच दिवसीय टीईक्यूआईपी स्पॉन्सर्ड स्टूडेंट वर्कशॉप का शुभारम्भ हुआ। इसका विषय इंजीनियरिंग केमिस्ट्री ( रेमेडिअल क्लासेज) था।

इस कार्यक्रम के मुख्य अथिति प्रो. (डॉ.) धीरेन्द्र माथुर कोऑर्डिनेटर एंड हैड टीईक्यूआईपी आरटीयू कोटा थे। कार्यक्रम की शुरूआत में प्रो. संगीता व्यास डिपार्टमेंट ऑफ केमिस्ट्री ने सभी आगंतुओ का स्वागत किया। इसके बाद प्रोग्राम की संयोजक प्रो. अर्चना सक्सेना ने पांच दिवसीय कार्यशाला के बारे में विस्तार से बताया।

संस्था के डायरेक्टर एकेडमिक्स डॉ. एस.एल. सुराना ने इस कार्यशाला को स्टूडेंट्स के लिए लाभकारी बताया।

इस अवसर पर प्रो. (डॉ) विवेक पांडे इवेंट कोऑर्डिनेटर आरटीयू, कोटा ने भी अपने विचार रखे। अंत में केमिस्ट्री डिपार्टमेंट की हैड डॉ. शारदा सोनी ने धन्यवाद ज्ञापित किया।

स्टूडेंट वर्कशॉप का हुआ आयोजन
डेली न्यूज, mix रिपोर्टर,
जयपुर। स्वामी केशवानंद
इंस्टीट्यूट ऑफ टेक्नोलॉजी
मैनेजमेंट एंड ग्रामोत्थान जगतपुरा,
जयपुर में आरटीयू कोटा व
एसके आईटी की ओर से पांच
दिवसीय स्टूडेंट वर्कशॉप का
आयोजन हुआ। 'रेमेडिअल
क्लासेज फॉर इंजीनियरिंग' विषय पर हुई वर्कशॉप में मुख्य अथिति
इंचार्ज बीटेक फर्स्ट इयर प्रो. (डॉ)
रोहित मुखर्जी थे। प्रोग्राम की
संयोजक प्रो. अर्चना सक्सेना ने
पांच दिवसीय कार्यशाला की रिपोर्ट
प्रस्तुत की व फीडबैंक को शेयर
करते बताया की सभी स्टूडेंट्स ने इस कार्यशाला को फायदेमंद
इस कायशाला का फायदमद बताया। डायरेक्टर एकेडमिक्स डॉ
एस.एल. सुराना ने इस तरह की
कार्यशालाओं का आयोजन भविष्य
में भी करवाने की बात कही।

### **CERTIFICATE**



### **ASSIGNMENT QUESTIONS**

- 1. Mention two important industrial uses of water.
- 2. What do you understand by hardness of water?
- 3. Which method is used for determination of hardness of water?
- 4. Which method is used for softening of water?
- 5. Write the units for determination of hardness in water.
- 6. Write the formula for multiplication factor.
- 7. Write the formula for converting hardness of any salt in terms of CaCO3 equivalents.
- 8. Write the formula for lime and soda requirement in water softening method.
- 9. Why do we always determine hardness in terms of equivalents of CaCO3.
- 10. Write the names of the boiler problems, which arise due to hard water
- 11. Which alkali is mainly responsible for caustic embrittlement.
- 12. Write the formula of Permutit (Zeolite).
- 13. Write the names of different varieties of coal.
- 14. Give one advantage of gaseous fuel over solid and liquid fuels.
- 15. How will you determine calorific value of gaseous fuels?
- 16. What is Proximate Analysis?
- 17. Write the formula for determination of Gross and Net calorific value of fuels.
- 18. In Ultimate Analysis determination of which constituents is done.
- 19. Write the name of method used for manufacturing of metallurgical coke.
- 20. Write Dulongs formula for determination of HCV.
- 21. What do you understand by Octane Number.
- 22. Give the names of two types of cracking.
- 23. Give the name Write the two important types of corrosion.of one antiknocking agent.
- 24. Give the names of two important types of protective coatings.
- 25. Give examples of two important methods of corrosion protection
- 26. What do you understand by localized corrosion
- 27. What do you understand by galvanic cell corrosion..
- 28. Write in short about sacrificial anodic protection method.
- 29. Who discovered Portland Cement.
- 30. What are the main constituents of Portland Cement.
- 31. Define Setting of cement.
- 32. Rotary Kiln Method is used for-
- 33. Define Hardening of cement
- 34. Write the formula of Gypsum
- 35. Give the role of Gypsum in manufacturing of Portland Cement.
- 36. Tank Furnace is used for.
- 37. Define Annealing process in Glass manufacturing.
- 38. Give chemical composition of soft glass.
- 39. Give chemical composition of hard glass.
- 40. Write one important use of optical fibre.
- 41. Define Lubricants.
- 42. Give one examples of solid lubricant.
- 43. Give two examples of liquid lubricants.
- 44. Give one examples of semi solid lubricant Write the names of three mechanisms of lubrication
- 45. Define Viscosity
- 46. Define Viscosity Index.
- 47. Write the name of the apparatus by which Viscosity can be measured.
- 48. Write the name of the apparatus by which Flash and Fire point can be measured.
- 49. Write the uses of Paracetamol.
- 50. Give an example of addition reaction.

# **FEEDBACK**

Following questions were given to the students through a Google form. Their answers were analyzed as below.

	Question	Reply	
1	How was the workshop? (E is eventions)	4.9	
1.	How was the workshop? (5 is excellent)	4.8	
2.	Communication about the workshop. (5 is excellent)	4.6	
3.	Ease of joining online sessions (5 is excellent)	4.6	
4.	Delivery of content ( 5 is excellent )	4.7	
5.	PPT shown ( 5 is excelllent )	4.7	
6.	Do you wish to join more sessions like this?	Yes	
7.	How were the speakers?	4.7	
8.	Level of effort [Level of effort you put into the course]	Mostly Very Good	
9.	What aspects of this course were most useful or valuable?	Reflections are given below	

- This course is very useful
- Revision for mid term
- Most useful and valuable
- It completely revised me all the important topics
- This course was very much wonderful for learning or revision of impotant topics of engineering Chemistry
- which were very useful and ultimately valuable
- Hardness of water, fuel, cement and many topics. thank you all teachers and specially thank you for Archna mam..
- This was a wonderful workshop. The way teachers express there views on each topic was wonderful. It will help me to clear my main exam with good marks. These aspects of this course were most useful or valuable.
- The lecture delivery and way of explaining in online class was very good and asking students for their queries again and again
- Cleared my previous doubts within span of 5 days . And also innovative aspects were shown by teachers.
- All the topics were covered within a short a span of time, very quickly and we got a great chance to interact with various teachers from various colleges
- Everything on the webex session was very helpful and informative .

- in regular classes we have only one teacher throughout the semester if he/she is teaching
- good enough but also then you are not able to understand what he/she teach us in the lecture ,
- you don't have any option rather than felling sad or some students may go under depression because
- of lack of knowledge what to do where to go for help as we all are in the 1st semester.
   So these kind of
- Remedial classes give us the option that if you are not able to understand from one teacher then you have other options too. At last i want to say that all the lecture are really good enough and all teachers explain all the concepts in a excellent way in such a short period of time span .Cover all the concepts in the exam point of view and these lectures helps us in building our concepts more strong enough. Thanks a lot from deep of my heart to all the respected faculty of RTU, kota and SKIT, Jaipur and event coordinators for organizing such workshop through virtual mode in such a excellent manner.
- In this session the notes and ppt are very good and the numerical problem is very excellent and the teacher are explained the topic with so much interest
- All doubts are cleared after these sessions. concepts of the important topics are revised and will help in
- Making notes. Looking forward to join next one.
- The sessions were very helpful, explanations of topics were detailed and the numericals were well explained by the teachers and overall the five days workshop was very helpful.
- Discussion between the teachers was interesting and inspiring.
- Excellent

	<u>rtu (</u> 2	ATU) TEQIP-III sponsored	
Students' W	orkshop (R	emedial Classes) On Engineering Ch	emistry
	(18/	/01/2021 - 22/01/2021)	
20ESKCE001	Sec-I	Aakanksha Sharma	Р
20ESKCE002	Sec-I	Abhinandan Sharma	Р
20ESKCE003	Sec-I	Abhishek Bansal	Р
20ESKCE004	Sec-I	Abhishek Choudhary	Р
20ESKCE005	Sec-I	Abhishek Sharma	Р
20ESKCE006	Sec-I	Aditya Bagdi	Р
20ESKCE008	Sec-I	Aman Jain	Р
20ESKCE009	Sec-I	Aman Kumar Meena	Р
20ESKCE010	Sec-I	Aman Sharma	Р
20ESKCE011	Sec-I	Amit Kumar	Р
20ESKCE013	Sec-I	Anil Meena	Р
20ESKCE015	Sec-I	Ankesh Raj	Р
20ESKCE016	Sec-I	Ankit Yadav	Р
20ESKCE017	Sec-I	Anupam Meena	Р
20ESKCE018	Sec-I	Archana Meena	Р
20ESKCE019	Sec-I	Arpit Aanjana	Р
20ESKCE021	Sec-I	Arvind Yadav	Р
20ESKCE022	Sec-I	Aryan Choudhary	Р
20ESKCE023	Sec-I	Aryan Verma	Р
20ESKCE024	Sec-I	Ashish Kumar Meena	Р
20ESKCE025	Sec-I	Avdesh Meena	Р
20ESKCE026	Sec-I	Bhanu Pratap Singh Kanawat	Р
20ESKCE027	Sec-I	Bharat Lodwal	Р
20ESKCE029	Sec-I	Devansh Sattavan	Р
20ESKCE030	Sec-I	Devendra Meena	Р
20ESKCE032	Sec-I	Dhanraj Meena	Р
20ESKCE033	Sec-I	Dharmik Choudhary	Р
20ESKCE034	Sec-I	Dilkhush Meena	Р
20ESKCE035	Sec-I	Divya Meena	Р
20ESKCE036	Sec-I	Gaurav Meena	Р
20ESKCE037	Sec-I	Gaurav Sharma	Р
20ESKCE038	Sec-I	Gourav Pooniya	Р
20ESKCE040	Sec-I	Hardik Sharma	Р
20ESKCE041	Sec-I	Hemant Kumar Mina	Р
20ESKCE042	Sec-I	Himanshu Meena	P
20ESKCE044	Sec-I	Indrajeet Dangi	Р
20ESKCE045	Sec-I	Jay Bamanawt	P
20ESKCE046	Sec-I	K Satvik Nawla	P
20ESKCE048	Sec-I	Kamlesh Choudhary	P
20ESKCE049	Sec-I	Kanak Sharma	P
20ESKCE051	Sec-I	Kanishk Sharma	P
20ESKCE052	Sec-I	Kartik Choudhary	P
20ESKCE053	Sec-I	Khem Chand Koli	P
20ESKCE055	Sec-I	Komal Kanwar Korawat	P
			ľ

20ESKCE057	Sec-I	Kuldoon	Р
		Kuldeep Kunal Banshiwal	P
20ESKCE058	Sec-I		P
20ESKCE059	Sec-I	Kunal Meena	P P
20ESKCE060	Sec-I	Kunal Sharma	P
20ESKCE064	Sec-I	Libin M T	P P
20ESKCE065	Sec-I	Maahi Kaur Disanj	-
20ESKCE066	Sec-I	Mahil Meel	P
20ESKCE067	Sec-J	Manish Kumar	P
20ESKCE068	Sec-J	Manish Kumar Dhanwant	P
20ESKCE070	Sec-J	Manisha Kukna	P
20ESKCE071	Sec-J	Manjeet Bijarniya	P
20ESKCE072	Sec-J	Manjeet Suman	P
20ESKCE073	Sec-J	Mitali Saini	P
20ESKCE074	Sec-J	Mohit Chaudhary	P
20ESKCE078	Sec-J	Navneet Singh	P
20ESKCE079	Sec-J	Neeraj Derwal	P
20ESKCE080	Sec-J	Neha Meena	P
20ESKCE086	Sec-J	Prafful Choudhary	Р
20ESKCE087	Sec-J	Pragya Goyal	Р
20ESKCE088	Sec-J	Prakhar Chauhan	Р
20ESKCE089	Sec-J	Prakhar Pareek	Р
20ESKCE090	Sec-J	Prashant Meena	Р
20ESKCE091	Sec-J	Pretesh Kakhani	Р
20ESKCE092	Sec-J	R S Laxman Meena	Р
20ESKCE093	Sec-J	Rahul Choudhary	Р
20ESKCE101	Sec-J	Ritik Sharma	Р
20ESKCE102	Sec-J	Rohit Godara	Р
20ESKCE103	Sec-J	Rohit Lamba	Р
20ESKCE104	Sec-J	Rohit Meena	Р
20ESKCE105	Sec-J	Sachin Meena	Р
20ESKCE106	Sec-J	Sailesh Mathur	Р
20ESKCE107	Sec-J	Saksham Gupta	Р
20ESKCE108	Sec-J	Sakshi Agarwal	Р
20ESKCE109	Sec-J	Shashank Verma	Р
20ESKCE111	Sec-J	Siddharth Manavtal	Р
20ESKCE112	Sec-J	Soham Sharma	Р
20ESKCE113	Sec-J	Soheb Balkhi	Р
20ESKCE114	Sec-J	Somik Choudhary	Р
20ESKCE115	Sec-J	Sujal Garg	Р
20ESKCE116	Sec-J	Sumit Kumar	Р
20ESKCE117	Sec-J	Suryansh Meena	Р
20ESKCE118	Sec-J	Suryanshu Sharma	Р
20ESKCE119	Sec-J	Tarun Prakash Saini	Р
20ESKCE120	Sec-J	Tushar Kumar Verma	Р
20ESKCE122	Sec-J	Vansh Choudhary	Р
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20ESKCE126	Sec-J	Vinod Dewasi	Р

20ESKCE131	Sec-J	Vivek Choudhary	Р
20ESKCE131 20ESKCE133	Sec-J	Yatin Meena	P
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	Sec-K		P
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	Sec-K		P
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20ESKEE060	Sec-K	Lakshya	P
20ESKEE061	Sec-K	Lalit Soni	P
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20ESKEE063	Sec-K	Lokesh Kumar Kumawat	Р
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20ESKEE103	Sec-L	Rajkumar Sain	Р
20ESKEE104	Sec-L	Ranjan Kumar Tiwari	Р
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20ESKEE117	Sec-L	Sahil Khandelwal	P
20ESKEE118	Sec-L	Sakshi Jain	P
20ESKEE118	Sec-L	Sandeep Kumar Yadav	P
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20ESKEE121	Sec-L	Sarla Karwasara	Р
			Р Р
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20ESKEE123	Sec-L	Saurabh Garg	P P
20ESKEE124	Sec-L	Saurav Kumar Saini	-
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20ESKEE128	Sec-L	Shahrukh Mohammd	P
20ESKEE129	Sec-L	Shital	P
20ESKEE130	Sec-L	Shivam Kumar	Р
20ESKEE131	Sec-L	Shivkesh Meena	Р
20ESKEE132	Sec-L	Shreya Pandey	Р
20ESKEE133	Sec-L	Shubham	Р
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20ESKEC007	Sec-M	Abhishek Singh (JS)	Р
20ESKEC008	Sec-M	Abhishek Singh (SS)	Р
20ESKEC009	Sec-M	Adarsh Sain	Р
20ESKEC010	Sec-M	Aditya Kumar Meena	Р
20ESKEC011	Sec-M	Aditya Narayan	Р
20ESKEC012	Sec-M	Ajay Kumar Sharma	Р
20ESKEC014	Sec-M	Akash Kumar	Р
20ESKEC015	Sec-M	Amartia Anand	Р
20ESKEC016	Sec-M	Amol Kumari	Р
20ESKEC017	Sec-M	Ankit Kumar	Р
20ESKEC018	Sec-M	Ankit Rajwania	Р
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20ESKEC020	Sec-M	Anshuman Singh Rathore	Р
20ESKEC021	Sec-M	Anushka Jain	Р
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20ESKEC023	Sec-M	Arun Singh	Р
20ESKEC025	Sec-M	Ashish Gurjar	Р
20ESKEC026	Sec-M	Ashutosh Jangir	Р
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20ESKEC031	Sec-M	Chakshit Gunidia	Р
20ESKEC032	Sec-M	Charvi Dadhich	Р
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20ESKEC034	Sec-M	Chitaansh	P
20ESKEC035	Sec-M	Chitvan Tak	P
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20ESKEC040	Sec-M	Divyansh Gupta	P
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20131110043	JCC-111		P

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20ESKEC048	Sec-M	Hiren Vaishnav	P
20ESKEC049	Sec-M		P
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20ESKEC051	Sec-M		P
		Jayesh Vashishtha	P
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20ESKEC055	Sec-M	Kanak Singhal	P P
20ESKEC056	Sec-M	Kartik Tiwari	-
20ESKEC057	Sec-M	Kashish Arora	P
20ESKEC058	Sec-M	Kashish Jagwani	P
20ESKEC059	Sec-M	Kashish Karamchandani	Р
20ESKEC060	Sec-M	Kashish Sharma	Р
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20ESKEC062	Sec-M	Khushi Garg	Р
20ESKEC065	Sec-N	Kushal Tambi	Р
20ESKEC066	Sec-N	Lakshit Jain	Р
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20ESKEC090	Sec-N	Prajjawal Nirvan	Р
20ESKEC091	Sec-N	Prashansha Khandelwal	Р
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20ESKEC093	Sec-N	Prince Singhal	Р
20ESKEC094	Sec-N	Priya Gupta	Р
20ESKEC095	Sec-N	Pulkit Sharma	Р
20ESKEC097	Sec-N	Radhika Ojha	Р
20ESKEC098	Sec-N	Raghav Dhaka	Р
20ESKEC099	Sec-N	Raghav Gupta	Р
20ESKEC100	Sec-N	Ritu Yadav	Р
20ESKEC101	Sec-N	Rohit Jarwal	P
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20ESKEC105	Sec-N	Samridhi	P
20ESKEC106	Sec-N	Samyak Jain	P
20ESKEC107	Sec-N	Sanchit Agrawal	P
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20ESKEC109	Sec-N	Shikha Kumari	Р
			P
20ESKEC110	Sec-N	Shivani Lamba	P P
20ESKEC111	Sec-N	Siddharth Choabey	-
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20ESKEC114	Sec-N	Suraj Singh Shekhawat	P
20ESKEC115	Sec-N	Swati Aggarwal	P
20ESKEC116	Sec-N	Tanish Khandal	Р
20ESKEC117	Sec-N	Tushar Vijayvargia	P
20ESKEC118	Sec-N	Umang Sharma	Р
20ESKEC119	Sec-N	Utkarsh Bhargava	Р
20ESKEC120	Sec-N	Utkarsh Gautam	Р
20ESKEC121	Sec-N	Utkarsh Khandelwal	Р
20ESKEC122	Sec-N	Vaibhav Kunal	Р
20ESKEC124	Sec-N	Vishal Moud	Р
20ESKEC125	Sec-N	Yash Bairwa	Р
20ESKEC126	Sec-N	Yash Sharma	Р
20ESKIT005	Sec-O	Aditya Agarwal	Р
20ESKIT006	Sec-O	Aditya Shri Shrimal	Р
20ESKIT007	Sec-O	Akshat Jaiman	Р
20ESKIT008	Sec-O	Akshat Jain	Р
20ESKIT009	Sec-O	Akshat Kumar Lakhara	Р
20ESKIT010	Sec-P	Akshat Sharma	Р
20ESKIT011	Sec-O	Amey Vijaywargiya	Р
20ESKIT013	Sec-O	Anirudh Shekhawat	Р
20ESKIT014	Sec-O	Ankit Sharma	Р
20ESKIT017	Sec-O	Anu Kumari	Р
20ESKIT018	Sec-P	Arun Sharma	Р
20ESKIT019	Sec-O	Arup Majumder	Р
20ESKIT021	Sec-O	Ashvani Khandelwal	Р
20ESKIT022	Sec-O	Atishayee Singh	Р
20ESKIT023	Sec-O	Ayush Ranjan	Р
20ESKIT024	Sec-O	Ayush Singhal	Р
20ESKIT025	Sec-O	Ayushi Agrawal	Р
20ESKIT026	Sec-O	Badal Singh Rathore	Р
20ESKIT027	Sec-O	Charu Tiwari	Р
20ESKIT028	Sec-O	Chirag Moud	Р
20ESKIT029	Sec-P	Deepanshu	Р
20ESKIT032	Sec-O	Disha Tyagi	P
20ESKIT033	Sec-O	Dishank Agrawal	P
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20ESKIT036	Sec-O	Gaurav Jangid	P
20ESKIT037	Sec-O	Geetam	P
20ESKIT037	Sec-O	Giritra Saraswat	P
20ESKIT038	Sec-O	Gungun Wadhwa	P
20ESKIT039	Sec-O	Harsh Jain	P
20ESKIT040	Sec-P	Harshit Gupta	P
20ESKIT041	Sec-P	Harshit Sharma	P
20ESKIT043	Sec-D	Himanshi Sharma	P
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20ESKIT046	Sec-O	Isha Agarwal	Р
20ESKIT040	Sec-O	Isha Sharma	P
20ESKIT047 20ESKIT048	Sec-O		P
20ESKIT048 20ESKIT049	Sec-D	Ishita Vyas	P
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	Sec-O		P
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	Sec-O		Р Р
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20ESKIT068	Sec-O	Navneet Tanwar	Р
20ESKIT069	Sec-O	Neetu Choudhary	Р
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20ESKIT092	Sec-P	Shray Rathore	Р
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20ESKIT096	Sec-P	Shubham Gupta	Р
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20ESKIT098	Sec-P	Sohail Gull	Р
20ESKIT099	Sec-P	Srishti Ajmera	Р
20ESKIT100	Sec-P	Tanisha Jain	Р
20ESKIT101	Sec-P	Udit Vashishth	Р

20ESKIT103	Sec-P	Vanshika Gupta	Р
20ESKIT105	Sec-P	Yash Gupta	Р
20ESKEE134	Sec-P	Shubham Dhakad	Р
20ESKEE135	Sec-P	Shubhendra Singh Kelwa	Р
20ESKEE136	Sec-P	Shyanu Kumar Sharma	Р
20ESKEE137	Sec-P	Siddharth Agarwal	Р
20ESKEE138	Sec-P	Sourbh Saharan	Р
20ESKEE139	Sec-P	Sumit Verma	Р
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20ESKEE141	Sec-P	Suryansh Arya	Р
20ESKEE142	Sec-P	Tanishq Rathore	Р
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20ESKEE146	Sec-P	Vaibhav Sharma	Р
20ESKEE147	Sec-P	Vaidehi Mudgal	Р
20ESKEE148	Sec-P	Vanshika Nirwan	Р
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20ESKEE152	Sec-P	Vishal Verma	Р
20ESKEE153	Sec-P	Vishalkumar Goyal	Р
20ESKEE154	Sec-P	Yash Jindal	Р
20ESKEE159	Sec-P	Yathartha Solanki	Р
20ESKEE160	Sec-P	Yukti Yadav	Р
20ESKEE161	Sec-P	Yuvraj Pandit	Р
20ESKEE162	Sec-P	Yuvraj Singh	Р
20ESKEE163	Sec-P	Yuvraj Singh Tanwar	Р

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With Best Regards

Prof. (Dr.) Vivek Pandey, Dean Applied Science
RTU Event Coordinator
Prof. (Dr.) Archana Saxena, Department of Chemistry, SKIT Jaipur
SKIT JAIPUR (Host Institute) Event Coordinator

# **Thank You All On Successful Completion of Students** Workshop on **Remedial Classes on** ENGG CHEM