

SCIENCE COLLEGE, Congress Nagar, Nagpur



Department of Chemistry

Short Term Course under Jeevan Shikshan Abhiyan on No Grant Basis [2023-24]



COURSE TITLE: CERTIFICATE COURSE IN "CHEMICAL AND INSTRUMENTAL ANALYSIS OF SOLID FUEL, PETROLEUM PRODUCTS, ORE AND MINERALS"

(Skill Based Certificate Course)

Duration -45 Hours (15 Weeks) (Th-33 Hrs ,P-12 Hrs)

No. of Credits:02

Course Coordinator: Dr. Vrushali R. Kinhikar







RASHTRASANT TUKADOJI MAHARAJ NAGPUR UNIVERSITY

(Established by Government of Central Provinces Education Department by Notification No. 513 dated the 1st of August 1923 & presently a State Universities governed by Maharashtra Universities Act No. VI of 2017)

DEPARTMENT OF LIFELONG LEARNING AND EXTENSION

Guru Nanak Bhavan, University Campus, Ambazari Bypass Road, Nagpur-440033 Phone: 2530860

Dr. Nishikant Raut, (Director)

Mob. No. 9422803768

No.DOLLE/738/24

Dated: 06, 02, 2024

To, The Principal

SSES Amravati's

Science College

Congress Nagar Nagpur.

Subject:

Sanction for Conducting Short Term Courses under Jeevan Shikshan

Abhiyan on No Grant Basis. (2023-24)

Sir/Madam.

With reference to your proposal for conducting Short Term courses indicated below under Jeevan Shikshan Abhiyan of this Department, this is to inform you that your proposal has been accepted and your College has been granted permission to conduct the course on the following conditions:

Details of the Course

Sr. No.	Name of the Course	Name of Course Coordinator	Duration	Credit	No.of Candidates to be admitted	Fees to be Charged per Student	Fees to be Deposited With the Deptt.
1	Certificate Course in Chemical and Instrumental Analysis of Solid Fuel, Petroleum Products, Ore and Minerals.	Dr.Vrushali R. Kinhikar.	45 hrs. T-33 hrs. P-12 hrs.	2	80	500/-	10%

Rules & Regulations of this Department regarding these courses should be strictly followed.

- This sanction is valid for this particular Batch only.
- 2. Fees for the course should be charged as per the norms prescribed.
- 3. Expenditure on the course should be incurred as per norms.
- Course should be started within a Month from the date of sanction.
 Please communicate your acceptance within a month and submit the Initial Report
- 5. Submit the List of Students admitted in the excel format attached herewith.
- 6. Geotagged Photographs clicked during theory and practical classes have to be submitted along with the final report. Other than geotagged photographs will not be accepted.
- 7. Complete details and evidences (along with geotagged photographs) for theory & pratical exam / assessment will have to be submitted. Guidelines for allottment of grades should be strictly followed.
- After Completion of the course the dates for assessment /exam should be informed to the Department at teast 10 days in advance.

Your's faithfully,



SCIENCE COLLEGE Congress Nagar, Nagpur



Accredited with CGPA of 3.51 at 'A+' Grade by NAAC Bangalore
A college with Potential for Excellence
An Institutional Member of APQN
Recognized Centre for Higher Learning & Research
A Mentor College under "Paramarsh Scheme" of UGC, New Delhi
A Mentor College under Paris Sparsh Scheme of Maharashtra State

Report On

"CHEMICAL AND INSTRUMENTAL ANALYSIS OF SOLID FUEL, PETROLEUM PRODUCTS, ORE AND MINERALS"

Department of Chemistry ,SSES Amt's Science College Congress Nagar, Nagpur has successfully conducted a skill-based course on "Chemical and Instrumental Analysis for Petrol, Oil, Minerals, and Ores". The course, spanning 45 hours, was held from March 1 to May 18, 2024. The theoretical sessions were conducted at Shri Shivaji Science College, Nagpur, while the practical sessions were held at LITU College. This comprehensive course aimed to equip participants with indepth knowledge and hands-on experience in chemical and instrumental analysis techniques. I am delighted to inform you that the course has been successfully completed, and participants have gained valuable skills and expertise in this specialized field. We appreciate the support and collaboration from both Science College ,Congress Nagar ,Nagpur and LITU College in making this course successful. Total of 80 students participated, benefiting from theoretical lectures on cement composition and properties, alongside practical sessions providing hands-on experience in determining chemical composition, Calorific value. Flash point, Fire point analysing, Aniline point of petroleum products and various properties solid fuel i.e. VM, Ash, Moisture , and. Total 80 students benefitted the course.

Our institution organized practical session on "Skill development program & Handson practice for Chemical & Instrumental Analysis of Petroleum Products and Solid Fuel" as a part of Skill Development program, at Laxminarayana Innovation Technological University, Nagpur from 24/04/2024 to 25/04/2024. The Main Objective of the Visit to enhance the industrial learning and acquaint the students about the state- of-art instruments. This visit provides opportunities to students to get knowledge about the complete analysis of Solid Fuel & various method of petroleum products. Dr. Vrushali R. Kinhikar, Asst. Prof. Dept of Chemistry, Science College Congress Nagar Nagpur coordinated the session and Dr. Amit Agrawal Asst. Prof. Department of Petrochemical Technology gave demonstration and emphasized on significance in bridging the gap between theory and practice of various experiments of Petrol and Diesel analysis and the 60 students perform the practicals

enthusiastically with enriched perspectives and invaluable insights into industry practices. Dr.Vrushali R.Kinhikar extended her gratitude to Prof Dr. R B Mankar ,Vice chancellor,Laxminarayan Innovation Technological University,Nagpur and Prof. M.P. Dhore,Principal Science College ,Congress Nagar Nagpur ,Prof R.U.Khope, Head Department of Chemistry, Dr. Girish M.Deshmukh,Head Department of Petrochemical ,LITU, Nagpur , and Dr. Amit Agrawal Asst. Prof. Department of Petrochemical Technology for their constant support and Guidance.

We look forward to conducting more such courses in the future, enhancing the skills and knowledge of our



Course Coordinator

Dr.V.R.Kinhikar

Course Coordinator

S.S.E.S.A.'s Science College
Nagpur

SSES Amt's Science College, Congress Nagar, Nagpur-12 Notice

(Skill Base Courses)

All the students are here by informed that, We have introduced a new skill base course in the college entitled "CERTIFICATE COURSE IN CHEMICAL AND INSTRUMENTAL ANALYSIS OF SOLID FUEL, PETROLEUM PRODUCTS, ORE AND MINARALS".

This course is short term course of 45 hours including theory and practicals.

The Course Fee will be Rs-500/- only

Those students who wish to have admission in the said course please contact with Course Co-Ordinator Dr. Mrs. Vrushali Kinhikar, Department of Chemistry. Last date of admission will be 24/2/2024.

Course Director

Skill Base Courses

SSES Amt,s Science College

Nagpur

	Shri Shivaji Education Societ	
	Science College Nag	y Amravati's
	List of students	ato:
Chemical	And Instrumental Analysis of Products, Ore and Mi	of Solid Fuel,Petroleum
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CHE-3	AISHWARYA MENDWADE	A Contract
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CHE-4	Aishwarya pramod bambal	ABale
CHE-5	AMIT DEEPAK SHINDE	Pon
CHE-6	ANUP TIWARI	401
CHE-7	APURVA TAPAN SAHU	Parky
CHE-8	ARYA KUNDARPAWAR	Mawa.
CHE-9	ATHARWA WANKHADE	Car
CHE-10	AVANI PREMDAS KALE AVANTI ANIRUDHA	
CHE-11	ZADGAONKAR	Do
CHE-12	CHETAN SANJAY KOLHE	11.4.00
CHE-13	CHETANA MORESHWAR KHADSE	Chade
CHE-14	DEVYANI RATNAKAR WALKE DHANSHREE NARENDRA	Denyans
CHE-15	CHOUDHARI	Phanashui
CHE-16	DIPALI NARENDRA DUDHE	Qu.
CHE-17	DIVYA ARUN DEVIKAR	Cours
CHE-18	DIVYA YUVRAJ KAKDE	akukch
CHE-19	DURGA WALDE	Que.
CHE-20	GAURI PRADIP NASARE	yawa
CHE-21	GAYATRI TEJRAM UIKEY	guiker)
	HARDIKA PANDURANG	6.60
CHE-22	SARODE	(Hararad)
CHE-23	HARSHAL MEHAR	AK
CHE-24	HARSHINI KOLHE	1 Mahin,
CHE-25	JANHAVI VIRENDRA DESHMUKH	- Banks
CHE-25	JANVI UMESH FATING	1. Carrier
CHE-27	JATIN SURESH KHARE	1
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CHE-29	JUEE UPARKAR KASHISH SUHAS LOKHANDE	Louin
CHE-31	KHUSHABU SANJAY SARVE	Musher
CHE-32		1251
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CHE-35	LISA DHARMESH DEWANGAN	dwaggan

Course Coordinator
S.S.E.S.A.'s Science College
Nagpur

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CHE	-47	POOJA RAJU HAJARE	Phyore.
CHE	-48	PRACHI SATIKOSARE	A.
CHE	-49	PRANJU ASHOK AMBULE	Ameulis
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Course Coordinator

5,5.E.S.A.'s Science College

Nagpur

SCIENCE COLLEGE

Congress Nagar, Nagpur Session 2023-24

Certificate Course in "Chemical And Instrumental Analysis of Solid Fuel, Petroleum Products, Ore and Minerals"

Department of Chemistry

Date: 07/02/2024

Notice

All the Students admitted in Certificate Course in "Chemical And Instrumental Analysis of Solid Fuel, Petroleum Products, Ore and Minerals" are here by informed that they should present for Theory and Practical start from 1 /03/2024 at 2.30 pm to 3.30 pm at C10 Classroom.

List of Admitted Students for Certificate Course of "Chemical And Instrumental Analysis of Solid Fuel, Petroleum Products, Ore and Minerals"

Sr. No	Name of Student	Sr. No.	Name of Student	Sr. No.	Name of Student
1	AAHAN DEEPAK MANWATKAR	16	DIPALI NARENDRA DUDHE	31	KHUSHABU SANJAY SARVE
2	AAKANKSHA LAHANU WASNIK	17	DIVYA ARUN DEVIKAR	32	KRITI THAKUR
3	AISHWARYA MENDWADE	18	DIVYA YUVRAJ KAKDE	33	KSHITIJ GUPTA
4	Aishwarya pramod bambal	19	DURGA WALDE	34	LEYNESHA GHUBADE
5	AMIT DEEPAK SHINDE	20	GAURI PRADIP NASARE	35	LISA DHARMESH DEWANGAN
6	ANUP TIWARI	21	GAYATRI TEJRAM UIKEY	36	MADHURIMA SHAILESH GONNADE
7	APURVA TAPAN SAHU	22	HARDIKA PANDURANG SARODE	37	MAHEK DINESH SHINDE
8	ARYA KUNDARPAWAR	23	HARSHAL MEHAR	38	MEGHA BANGADKAR
9	ATHARWA WANKHADE	24	HARSHINI KOLHE	39	MINAL SHANKAR BISEN
10	AVANI PREMDAS KALE	25	JANHAVI VIRENDRA DESHMUKH	40	MRUNALI KALE
11	AVANTI ANIRUDHA ZADGAONKAR	26	JANVI UMESH FATING	41	MUSKAN SATENDRA KUMBHARE
12	CHETAN SANJAY KOLHE	27	JATIN SURESH KHARE	42	NANDINI CHOUDHARI
13	CHETANA MORESHWAR KHADSE	28	JIWAK WASEKAR	42	
14	DEVYANI RATNAKAR WALKE	29	JUEE UPARKAR	43	NIDHI RADHESHYAM GUPTA
15	DHANSHREE NARENDRA CHOUDHARI	30	KASHISH SUHAS LOKHANDE	44	NIKHITA PANDHARI PIPARE

Sr. No	Name of Student	Sr. No.	Name of Student	Sr. No.	Name of Student
45	NISHCHAL SHILPA INGLE	61	SAKSHI NARNAWARE	76	VAISHNAVI PAL
47	PARTH SANJAY GADGILWAR	62	SANCHIT JOSHI	77	VIDYA CHANDRAIAH IRGURALA
48	POOJA RAJU HAJARE	63	SANJANA JANGADE	78	VIDYA MAROTRAO UIKE
49	PRACHI SATIKOSARE	64	SANJOG DILIP ZARARIA	79	YASH SUNIL DORLE
50	PRANJU ASHOK AMBULE	65	SANYUGI HEMRAJ SHEMBEKAR	80	YASHIKA SUSHIL RANGARI
51	PRESHIT RAJESH WAHALE	66	Sejal Mahendra Bharne		
52	PRITI SATENDRA KUMBHARE	67	SEJAL SUBHASH THENGE		
53	PRIYANSHU BADWAIK	68	SHABAHAT KHAN		
54	RADHA RAJESH SOMKUWAR	69	SHARVARI PATEWAR		
55	RADHIKA GAIKWAD	70	SHRADDHA BANTE		
56	RAJVEE SAROJ SONTAKKE	71	SHRUTIKA HOMDEV UMREDKAR		
57	RAM ARUN NEMADE	72	SMITA ARVIND SAMRIT		
58	RASIKA DURBULE	73	SWEJAL PRASHANT GAJBHIYE		
59	RENUKA SUDHAKAR AYYAGARI	74	TANNU DINESH SINDURKAR		
60	RUGVED DINESH JOSHI	75	TANU TOMAR		

Course coordinator

Dr.V.R.Kinhikar



Principal
Principal
S. S.E.S. Amravati's
Science College, Nagpur.

SCIENCE COLLEGE

Congress Nagar, Nagpur Session 2023-24

Certificate Course in "Chemical And Instrumental Analysis of Solid Fuel, Petroleum Products, Ore and Minerals"

Department of Chemistry

Time Table

Room no.C10

w.e.f. Date: 27/02/2024

Day	2.30 pm to 3.30 pm	3.30 pmto 4.30 pm
Monday		VRK (Theory)
Tuesday	VRK (P	Practical)
Wednesday		VRK (Theory)
Thursday	VRK(Practical)
Friday		VRK (Theory)
Saturday	VRK(Practical)

Course coordinator

Dr.V.R.Kinhikar

SEAL SEAL MINES

Principal Principal S. S.E.S. Amravati's Science College, Nagpur









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Course Coordinator
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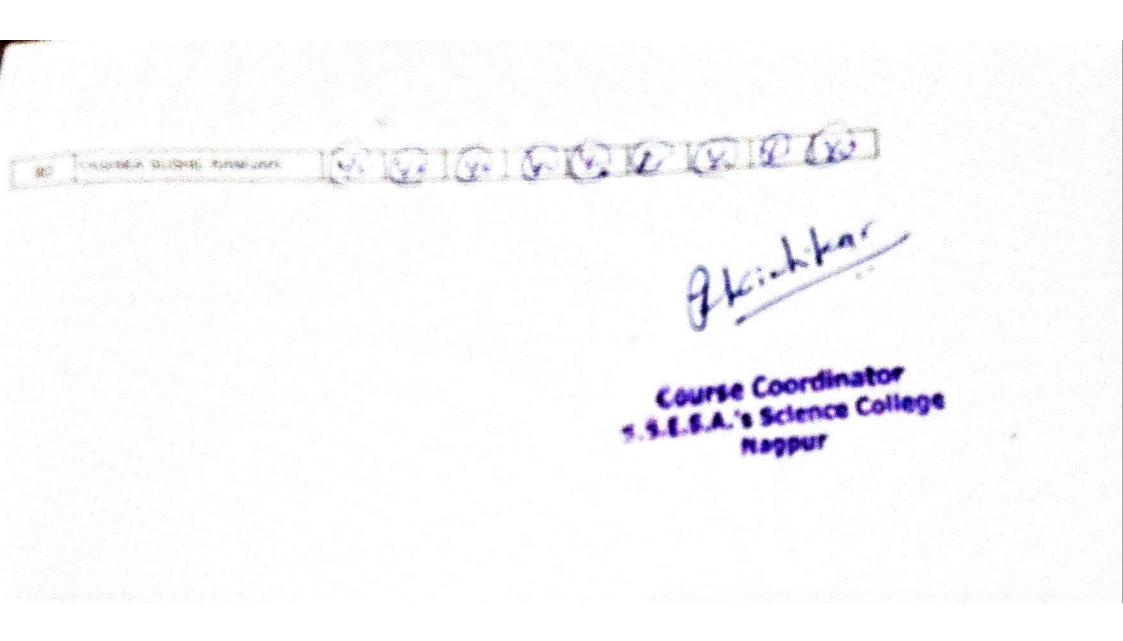
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Course Coordinator S.S.E.S.A.'s Science Colle

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Course Coordinator S.S.E.S.A.'s Science Colle-Nagpur

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Course Coordinator S.S.E.S.A.'s Science Colle

Course Coordinator

S.S.E.S.A.'s Science College

Nagpur

S. S. E. S. Amt's Science College, Congress Nagar, Nagpur-12 Exam schedule of RTMNU, DLLE Skill Base Courses 2023-2024 Time Table

S. N.	Name of skill base Certificate course	Date of Exam	Name of Invigilators	Time	Room No.	Name of Course Coordinator
Ī	Ground Water Exploration	10/07/2024	Ms. Mansi Borkar, Dr. Lankesh Bhaisare, Ms. Sarika Tekade			Dr. Ms. Pushpa Zamarkar
2	Environment and Water Management	11/07/2024	Ms. Pallvi Butle, Ms. Ankita Manapure, Ms. Anjali Pogade			Dr. Ms. P. N. Deshmukh
3	Web Technology	12/07/2024	Dr. Ms. Puja Dhade, Dr. Ms. Versha Pande, Ms. Achala Waghmare, Ms. Priya Gaidhane, Ms. Payal Talekar, Ms. Aishwrya Zure	11.00	C5, C6,	Dr. J. k. Keche
4	Fruit processing and wine technology	13/07/2024	Dr. Lankesh Bhaisare, Ms. Mansi Gawande, Ms. Shruti Agrawal, Ms. Piyush Sharma, Ms. Pallyi Butle.	AM to 12.30 PM	C7. C8. C9 C10.	Dr. Mrs. Pranita Gulhane
5	Biofertilizers and biopesticides	15/07/2024	aa Ms. Mansi Borkar, Ms. Sapna Bhaghel, Sarika Tekade, Ms. Ankita Manapure			Dr. Mrs. Pranita Gulhane
6	Immunology and immunodiagnostics	16/07/2024	Ms. Payal Talekar, Ms. Sapna Bhaghel, Ms. Sarika Tekade, Ms. Tinku Kumar		12	Dr. Mrs. Pranita Gulhane
7	Mushroom cultivation	18/07/2024	Dr. Piyush Sharma, Ms.Aishwrya Zure, Ms. Pallvi Butle.			Dr. Mrs. Rupali Mahakhode
8	Chemicals and Instrumental analysisMinerals	19/07/2024	Ms. Khushboo Sheikh, Ms. Shubhangi Kene, Dr. Shilpa Katre, Ms. Sarika Tekade			Dr. Mrs. Vrushali Kinhikar

^{*}All invigilators are informed to report the concerning course coordinators at given date at 10.30 AM.

Director of RTMNU. DLLE. courses
(Prof. A. D. Bobdey)

SSES Amt's Science College Congress Nagar, Nagpur-12

^{*}All course coordinators are informed that whose practical examinations are not conducted, they have to conduct their concerning practical examinations on same day of theory exam papers after 1.30 pm

^{*}Please make one desk bench one student seating arrangement for the same. We are using 06 class rooms for the examinations.

SCIENCE COLLEGE

Congress Nagar, Nagpur Session 2023-24

Theory Examination Certificate Course in "Chemical And Instrumental Analysis of Solid Fuel, Petroleum Products, Ore and Minerals"

Date of Examination 19/07/2024

Time: 11.00 am to 12.30 pm

Department of Chemistry

Invigilation Chart

Room No.	Name of Teacher	Total Students	7
C 10	Dr. Shubhangi J. Kene		ak
	Ms. Khushboo Sheikh	CHE1- to CHE40	
C5	Dr. Shilpa Katre	CHE 41 to CHE60	361
C6	Ms. Sarika Tekade	CHE61 to CHE80	Fetz

Course Coordinator

Dr.V.R.Kinhikar

Course Coordinator S.S.E.S.A.'s Science College Nagpur

Science College Congress Nagar Nagpur

Academic session 2023-24(19/07/24)

Examination - Certificate Course

Title of Course: "Chemical And Instrumental Analysis of Solid Fuel, Petroleum Products ,Oil and minerals"

Time: 1.30 hrs	Maximum Marks: 50
Roll.No. of student	Marks Obtained:
Name of Student	
Class <u>B.Sc./ M.Sc</u> . Sem Group	
Sign of Invigilator	
Instruction:	
• Solve any 25 questions out of 30 question	
 Tick(√) on correct answer Explain the answer in two line 	
• Each question carrying 2 mark (1mark for correct as	nswer and 1 mark for explanation)
	<u> </u>
Que. 1: What is the property of necessary for a separation?	n ore to be concentrated by electrostatic
a) The ore particles should be heavier than the	gangue particles,b) The ore particles should
be magnetic in nature,c) The ores should condu	ct electricity,d) It should be a sulphide ore
Answer:	
Explanation:	
Que.2:Which plateau is known as the mineral ha) Bhander Plateau, b) Chota Nagpur Plateau, c	
Answer:	
Evnlonation	

Que. 3: Which country is largest producer of crude steel in the world?

a) Japan,b) China,c) USA,d) More than above

Answer:
Explanation:
Que. 4 Lignite is also called as a) black coal, b) brown coal, c) char coal, d) crude oil
Answer: Explanation:
Que.5: For the generation of electricity, which source is used largely throughout the world?
a) coal,b) hydro power,c) wood,) solar energy Answer: Explanation:
Que.6: Most available form of solid fuel is a) coal,b) wood,c) petrol,d) lignite Answer: Explanation:
Que 7: The formation of coal is explained by a) ex-situ theory,b) in-situ theory,c) molecular theory,d) nuclear theory Answer: Explanation:
Que.8: Which of the following process is correct in the process of conversion of wood into coal?
a) wood \rightarrow peat \rightarrow lignite \rightarrow bituminous coal
b) peat \rightarrow wood \rightarrow lignite \rightarrow bituminous coal
c) lignite \rightarrow peat \rightarrow wood \rightarrow bituminous coal
d) wood → lignite → peat → bituminous coal
Answer:
Explanation:

Que.9: Which of the following fuels has the highest calorific value? a) lignite, b) wood, c) bituminous,d) anthracite	
Answer: Explanation:	
Que.10: What are the main applications of lignite? a) domestic fuel,b) railway engines,c) used for steam generation in the d) in vehicles Answer: Explanation:	rmal power plant
Que.11: Which of the following fuel is formed from industrial waste? a) Lignite,b) Briquetted fuel,c) Spent tan,d) Rice husk View Answer Answer: Explanation:	
Que.12: Which of the following industrial waste gas is used in creating a) Nitrogen dioxide,b) Carbon monoxide,c) Sulphur di oxide d) Hydrogen di sulphide Answer: Explanation:	jet fuel?
Que.13: Which of the following is a renewable energy resource? a) Coal,b) Cow dunk,c) Charcoal,d) Wood Answer: Explanation:	
Que. 14: . By which process does the wood charcoal is obtained? a) Destructive distillation, b) Steam distillation c) Vacuum distillation,) Simple distillation Answer: Explanation:	

Que.15: . Which of the following does require wood charcoal for its production? a) Steel alloys,b) Activated carbon,c) Alloys of tin
d) Plaster of Paris
Answer:
Explanation :
Que.16: Which type of coal is generated by the action of fungi and bacteria? a) Peat,b) Bituminous,c) Lignite,d) Anthracite Answer:
Explanation:
Que.17: Which of the following content does upland type of peat consist? a) Leaves,b) Twigs,c) Decomposed heaths and mosses d) Sedges and grasses
Answer:
Explanation:
Que.18:What happens when we carbonise peat?
a) Charcoal is produced,b) Coke is produced,c) Peat is converted into lignite,d) Peat is converted into bituminous
Answer:
Explanation:
Que.19: For what purpose does the dried peat is used?
a) Thermal insulation,b) Liquid purification,c) Destructive distillation,d) For production of calcium carbide
Answer: Explanation :
Que.20: How much moisture content is present in lignite? a) 60-75%, b) 10-25%, c) 35-50%,d) 75-100%
Answer:
Explanation:

a) Open cast mining,b) High wall mining,c) Drift mining,d) Slope min Answer:	
Explanation:	-
Que.22: Which of the following coal have highest volatile matter? a) Peat, b) Lignite,c) Bituminous,d) Anthracite	
Answer: Explanation:	-
Que.23: are used as rocket propellants in olden days. a) solid fuels,b) liquid fuels,c) petroleum,d) gaseous fuels Answer: Explanation:	-
Que.24:Most available form of solid fuel is a) coal, b) wood, c) petrol, d) lignite Answer: Explanation:	_
Que.25: What is the property of necessary for an ore to be concentra separation? a) The ore particles should be heavier than the gangue particles,b) The magnetic in nature, c) The ores should conduct electricity,d) It sho Answer: Explanation:	e ore particles should
Que.26:Which of the following are collectors used in the froth floatatia)Aniline b)Pine oil, c) Ethylxanthate ,d)Potassium ethylxanthates,Answer: Explanation:	on process?

Que.27: What is the role of the rotating paddle in froth floatation? a) Enhances wet ability of gangue particles,b) Stabilizes the froth c) Draws in air causing frothing,d) Enhances non-wet ability of the ore particles Answer: Explanation:
Que.28: Which is the backbone of modern civilization?
a) Bauxite, b) Chromite, c) Copper, d) Iron Ore
Answer:
Explanation:
Que.29:One of the disadvantages of solid fuel is
a) clinker formation,b) moderate ignition temperature,c) storage d) transportation
Answer: Explanation:
Que.30: One of the advantages of solid fuel is a) low calorific value,b) requirement of excess air c) ash formation,d) ease of transport Answer: Explanation:

Shri Shivaji Education Society Amravati's Science College Congress Nagar Nagpur

Academic session 2023-24(19/07/24)

Examination - Certificate Course

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,Oil and minerals"

Marks Obtained: 50
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nstruction:

- Solve any 25 questions out of 30 question
- Tick(√) on correct answer
- · Explain the answer in two line
- Each question carrying 2 mark (1 mark for correct answer and 1 mark for explanation)

Que. 1: What is the property of necessary for an ore to be concentrated by electrostatic separation?

a) The ore particles should be heavier than the gangue particles,b) The ore particles should be magnetic in nature,c) The ores should conduct electricity,d) It should be a sulphide ore

Answer: (

Explanation: Electrostatic separation is done for concentration of one which are good conductor of electricity. When electric field is applied one get charged and repetted by electrode having same Que.2: Which plateau is known as the mineral heart land of India?

a) Bhander Plateau, by Chota Nagpur Plateau,c) Deccan Plateau,d) Tibetan Plateau

Answer: b

Explanation: Choto Nagpur Plateau is Storehouse of minerals such as mica, bauxite, limestone, coke, iron ore, copper

Que. 3: Which country is largest producer of crude steel in the world? a) Japan, b) China, c) USA, d) More than above Answer: b Explanation: In 2000 China was the first country to produce one billion tonnes of steel. Que. 4 Lignite is also called as a) black coal, b) brown coal, c) char coal, d) crude oil Answer: b Explanation: Lignite is also called as brown coal. It is used for domestic different from charcoal Charcoal is purpose. Que.5: For the generation of electricity, which source is used largely throughout the (a) coal,b) hydro power,c) wood,) solar energy Answer: 9 Explanation: Nearly 92% of coal is used for generation of electricity. Electricity can be generated by hydro power, solar energy but in small amount.

Que.6: Most available form of solid fuel is _____ a) coal,b) wood,c) petrol,d) lignite Answer: b Or Explanation: wood is most available form of solid Fuel wood is obtained from trees. When trees dies and decomposed For Several Oyears, coal is produced.

Que 7: The formation of coal is explained by a) ex-situ theory,b) in-situ theory,c) molecular theory,d) nuclear theory Answer: b Explanation: in-sity theory explains formation of coal. Drift theory also explains formation of coal. According to in-situ theory' coal is produced only at place where vegetation grew. Que.8: Which of the following process is correct in the process of conversion of wood into coal? wood → peat → lignite → bituminous coal b) peat → wood → lignite → bituminous coal c) lignite → peat → wood → bituminous coal d) wood → lignite → peat → bituminous coal Answer: 9 Explanation: wood is converted to bituminous coal in stepwise manner. It is as follows wood - peat - lignite - bituminous coa Bituminous coal is then converted or graphite.

a) lignite, b) wood, c) bituminous d) anthracite Answer: d Explanation: anthracite has calorific value of 8650-8700 K(al/Kg) wood - 4000-4500 K(al/Kg) lignite - 6500-7100 K(al/Kg) bituminous coal Que. 10: What are the main applications of limites Que.10: What are the main applications of fignite? a) domestic fuel,b) railway engines,c) used for steam generation in thermal power plant d) in vehicles Answer: C Explanation: Lignite is used for steam generation in thermal power Plant. Lignite is also used for production of producer gas.

Calorific value of Lignite is 6500-7100 Kcalkg

Que. 11: Which of the following fuel is formed from industrial waste? a) Lignite,b) Briquetted fuel,c) Spent tan,d) Rice husk View Answer o Answer: c Explanation: Spent tan is nuclear quel obtained from nuclear reactor. Rice husk is obtained from animal waste. Briquetted fuel is compressed block of coal dust Que.12: Which of the following industrial waste gas is used in creating jet fuel? a) Nitrogen dioxide, b) Carbon monoxide,c) Sulphur di oxide d) Hydrogen di sulphide Answer: b Explanation: Carbon monoxide is fermented by gas fermentation which Forms alcohol and this alcohol is converted to jet fuel by dehydration Que.13: Which of the following is a renewable energy resource? a) Coal,b) Cow dunk,c) Charcoal,d) Wood Answer: d Explanation: wood is obtained from trees and trees can be replanted thus it is renewable form of energy. Example of wood - Pine, cedar etc. Que. 14: . By which process does the wood charcoal is obtained? a) Destructive distillation, b) Steam distillation c) Vacuum distillation,) Simple distillation Answer: 9 Explanation: In Destructive distillation, destruction of Feedstock of wood is done at higher temperature. The wood Charcoal obtained by this process is of good quality.

Que.9: Which of the following fuels has the highest calorific value?

Que.15: . Which of the following does require wood charcoal for its production? a) Steel alloys, Activated carbon,c) Alloys of tin d) Plaster of Paris Explanation: Activated carebon is extensively used in Que.16: Which type of coal is generated by the action of fungi and bacteria? (a) Peat,b) Bituminous,c) Lignite,d) Anthracite Explanation: It is a first conversion of vegetable debris to Coal in water logged condition by action of Fungi and bacteria.

Peat has moisture content of 90%. It is gound at high altitude.

Que.17: Which of the following content does upland type of peat consist? a) Leaves,b) Twigs,c) Decomposed heaths and mosses d) Sedges and grasses Answer: C Explanation: Upland type of peat is topmost peat consist of dead material which include decomposed heaths and mosses. Que.18: What happens when we carbonise peat? a) Charcoal is produced, b) Coke is produced, c) Peat is converted into lignite, d) Peat is converted into bituminous Answer: b Explanation: Under proper condition of temperature and pressure, Que. 19: For what purpose does the dried peat is used? Troduced Thermal insulation,b) Liquid purification,c) Destructive distillation,d) For production of calcium carbide Answer: a Explanation: Thermal insulation is reduction of heat transfer bet object which is under radiative influence. Peat is used For thermal insulation. Que.20: How much moisture content is present in lignite? a) 60-75%, b) 10-25%, c) 35-50%,d) 75-100% Answer: c Explanation: Lignite has moisture content of 35-50%. Peat contains about 90% of moisture.

Que 21: From which of the mining technique lignite can be extracted? (a) Open cast mining,b) High wall mining,c) Drift mining,d) Slope mining Answer: 9 Explanation: Open cast mining is used for commercially the surface of earth. which are near Que.22: Which of the following coal have highest volatile matter? a) Peat, b) Lignite,c) Bituminous,d) Anthracite 62 Explanation: Lignite burns with long smooky Flame which shows Answer: b its highest volatile matter. Lignite burns with oxygen on exposure of air. are used as rocket propellants in olden day's. a) solid fuels,b) liquid fuels,c) petroleum,d) gaseous fuels Explanation: Grun powder is the main solid fuel which is used Answer: 9 of as rocket propellant in older days. Now it is replaced by liquid fuel which are more efficient than solid fuel. Que.24:Most available form of solid fuel is ___ a) coal, b) wood, c) petrol, d) lignite Answer: 6 Explanation: wood is must available form of solid fuel. wood is obtained from trees. Que.25: What is the property of necessary for an ore to be concentrated by electrostatic a) The ore particles should be heavier than the gangue particles,b) The ore particles should be magnetic in nature, c) The ores should conduct electricity,d) It should be a sulphide ore Explanation: In electrostatic separation, electric field is applied particle of one which are conductor of electricity get charged and repelled by electrode having some charge and all are thrown away. Que.26: Which of the following are collectors used in the froth floatation process? a)Aniline b)Pine oil, c) Ethylxanthate, d)Potassium ethylxanthates, Answer: 9 Explanation: Froth Flouration process is used for concentration of sulphide one. It is box based on Fact that sulphied one are wetted by oil and ganque particle are wetted by water. To a suspension of vrushed once, collector is added to chance non-wettability of one particle.

Que.27: What is the role of the rotating paddle in froth floatation? a) Enhances wet ability of gangue particles,b) Stabilizes the froth er Draws in air causing frothing,d) Enhances non-wet ability of the ore particles Answer: C Explanation: In Froth Floatation, powder are is mixed with water Que.28: Which is the backbone of modern civilization? With the help of rotating a) Bauxite, b) Chromite, c) Copper, d) Iron Ore Answer: d Explanation: Largest hegmatite distribution Que.29: One of the disadvantages of solid fuel is a) clinker formation,b) moderate ignition temperature,c) storage d) transportation Answer: 9 Explanation: Clinker garmation is the main disadvantage of solid fuel. Solid fuel can be stoured, easily transported and have moderate ignition temperature so that we can control rate of combustion. Que.30: One of the advantages of solid fuel is a) low calorific value,b) requirement of excess air c) ash formation, dy ease of transport Answer: d Explanation: Solid Fuel are easy to transport as compared to liquid and gaseous Judi. Gareous fuels are difficult transport highly inflamable and



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Recognized Centre for Higher Learning & Research
A Mentor College under "Paramarsh Scheme" of UGC, New Delhi
A Mentor College under Paris Sparsh Scheme of Maharashtra State

Skill Based Course on

Chemical And Instrumental Analysis of Solid Fuel, Petroleum Products, Ore and Minerals

Date of Examination -19-07-2024

Marklist

Sr. No.	Roll No.	Name of Students	Theory (50 marks)	Practical (40 marks)	Internal Assignment (10 marks)	Total	Grade
1	CHE-1	AAHAN DEEPAK MANWATKAR	37	30	9	76	А
2	CHE-2	AAKANKSHA LAHANU WASNIK	50	31	8	89	A+
3	CHE-3	AISHWARYA MENDWADE	50	31	8	89	A+
4	CHE-4	AISHWARYA PRAMOD BAMBAL	46	29	10	85	A+
5	CHE-5	AMIT DEEPAK SHINDE	АВ	AB	6	AB	AB
6	CHE-6	ANUP TIWARI	50	31	8	89	A+
7	CHE-7	APURVA TAPAN SAHU	42	29	10	81	A+
8	CHE-8	ARYA KUNDARPAWAR	48	29	10	87	A+
9	CHE-9	ATHARWA WANKHADE	AB	30	9	AB	AB

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10	CHE-10	AVANI PREMDAS KALE	50	31	10	91	0
11	CHE-11	AVANTI ANIRUDHA ZADGAONKAR	50	39	10	89	A+
12	CHE-12	CHETAN SANJAY KOLHE	50	39	10	89	A+
13	CHE-13	CHETANA MORESHWAR KHADSE	35	30	9	74	A
4	CHE-14	DEVYANI RATNAKAR WALKE	44	31	8	83	A+
15	CHE-15	DHANSHREE NARENDRA CHOUDHARI	50	31	8	89	A+
16	CHE-16	DIPALI NARENDRA DUDHE	AB	39	9	AB	AB
17	CHE-17	DIVYA ARUN DEVIKAR	АВ	38	10	AB	AB
18	CHE-18	DIVYA YUVRAJ KAKDE	50	29	8	87	A+
19	CHE-19	DURGA WALDE	42	36	7	81	A+
20	CHE-20	GAURI PRADIP NASARE	50	29	10	89	A+
21	CHE-21	GAYATRI TEJRAM UIKEY	30	32	9	71	А
22	CHE-22	HARDIKA PANDURANG SARODE	50	29	10	89	A+
23	CHE-23	HARSHAL MEHAR	48	30	9	87	A+
24	CHE-24	HARSHINI KOLHE	50	29	10	89	A+
25	CHE-25	JANHAVI VIRENDRA DESHMUKH	32	29	10	71	А
26	CHE-26	JANVI UMESH FATING	50	29	10	89	A+
27	CHE-27	JATIN SURESH KHARE	50	29	10	89	A+
28	CHE-28	JIWAK WASEKAR	25	29	10	64	B+
9	CHE-29	JUEE UPARKAR	50	31	8	89	A+
30	CHE-30	KASHISH SUHAS LOKHANDE	АВ	20	6	AB	АВ
31	CHE-31	KHUSHABU SANJAY SARVE	50	31	8	89	A+
32	CHE-32	KRITI THAKUR	АВ	38	9	AB	AB
33	CHE-33	KSHITIJ GUPTA	48	30	9	87	A+
34	CHE-34	LEYNESHA GHUBADE	АВ	20	7	AB	АВ
35	CHE-35	LISA DHARMESH DEWANGAN	50	30	9	89	A+

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36	CHE-36	MADHURIMA SHAILESH GONNADE	50	30	9	89	A+
36	CHE-37	MAHEK DINESH SHINDE	35	29	10	74	А
8	CHE-38	MEGHA BANGADKAR	45	31	8	84	A+
9	CHE-39	MINAL SHANKAR BISEN	45	30	8	83	A+
0	CHE-40	MRUNALI KALE	28	24	9	71	А
1	CHE-41	MUSKAN SATENDRA KUMBHARE	50	30	9	89	A+
12	CHE-42	NANDINI CHOUDHARI	44	29	10	83	A+
13	CHE-43	NIDHI RADHESHYAM GUPTA	50	30	9	89	A+
44	CHE-44	NIKHITA PANDHARI PIPARE	50	30	9	89	A+
45	CHE-45	NISHCHAL SHILPA INGLE	48	30	9	87	A+
45 46	CHE-46	PARTH SANJAY GADGILWAR	АВ	AB	АВ	AB	АВ
46 47	CHE-47	POOJA RAJU HAJARE	26	30	9	65	B+
48	CHE-48	PRACHI SATIKOSARE	45	31	8	84	A+
49	CHE-49	PRANJU ASHOK AMBULE	50	30	9	89	A+
50	CHE-50	PRESHIT RAJESH WAHALE	50	30	9	89	A+
51	CHE-51	PRITI SATENDRA KUMBHARE	50	30	9	89	A+
52	CHE-52	PRIYANSHU BADWAIK	48	30	9	87	A+
3	CHE-53	RADHA RAJESH SOMKUWAR	AB	AB	AB	AB	AB
54	CHE-54	RADHIKA GAIKWAD	AB	30	8	AB	АВ
55	CHE-55	RAJVEE SAROJ SONTAKKE	50	39	7	89	A+
6	CHE-56	RAM ARUN NEMADE	42	31	8	81	A+
57	CHE-57	RASIKA DURBULE	50	30	9	89	A+
58	CHE-58	RENUKA SUDHAKAR AYYAGARI	48	30	9	87	A+
59	CHE-59	ROHITA VISHNU PARDHI	50	30	9	89	A+
60	CHE-60	RUGVED DINESH JOSHI	50	30	9	89	A+
61	CHE-61	SAKSHI NARNAWARE	50	30	9	89	A+

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62	CHE-62	SANCHIT JOSHI	46	30	9	85	A+
53	CHE-63	SANJANA JANGADE	40	31	8	79	Α
+	CHE-64	SANJOG DILIP ZARARIA	AB	25	7	AB	АВ
54	CHE-65	SANYUGI HEMRAJ SHEMBEKAR	50	31	8	89	A+
55	CHE-66	SEJAL MAHENDRA BHARNE	50	32	7	89	A+
66	CHE-67	SEJAL SUBHASH THENGE	50	32	7	89	A+
57	CHE-68	SHABAHAT KHAN	AB	29	8	АВ	АВ
68	CHE-69	SHARVARI PATEWAR	40	30	9	79	Α
69	CHE-70	SHRADDHA BANTE	50	32	7	89	A+
70	CHE-71	SHRUTIKA HOMDEV UMREDKAR	AB	20	5	AB	AB
71	CHE-72	SMITA ARVIND SAMRIT	50	30	9	89	A+
72	CHE-73	SWEJAL PRASHANT GAJBHIYE	50	32	7	89	A+
73	CHE-74	TANNU DINESH SINDURKAR	50	32	7	89	A+
74	CHE-75	TANU TOMAR	50	38	9	89	A+
75	CHE-76	VAISHNAVI PAL	AB	AB	AB	AB	AB
76	CHE-77	VIDYA CHANDRAIAH IRGURALA	39	30	9	78	А
77	CHE-78	VIDYA MAROTRAO UIKE	38	34	9	77	А
78	CHE-79	YASH SUNIL DORLE	50	30	9	89	A
79 80	CHE-80	YASHIKA SUSHIL RANGARI	46	30	9	85	Α-

Course Coordinator

Dr.V.R.Kinhikar

Course Coordinator

S.S.E.S.A.'s Science College
Nagpur



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Action Taken Report:

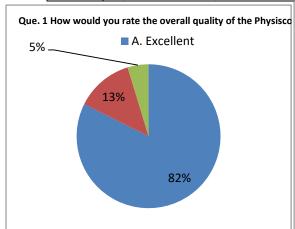
Department of Chemistry ,SSES Amt's Science College Congress Nagar, Nagpur has successfully conducted a skill-based course on "Chemical and Instrumental Analysis for Petrol, Oil, Minerals, and Ores". The course, spanning 45 hours, was held from March 1 to May 18, 2024. The theoretical sessions were conducted at Shri Shivaji Science College, Nagpur, while the practical sessions were held at LITU College. This comprehensive course aimed to equip participants with indepth knowledge and hands-on experience in chemical and instrumental analysis techniques. I am delighted to inform you that the course has been successfully completed, and participants have gained valuable skills and expertise in this specialized field. We appreciate the support and collaboration from both Science College ,Congress Nagar ,Nagpur and LITU College in making this course successful. Total of 80 students participated, benefiting from theoretical lectures on cement composition and properties, alongside practical sessions providing hands-on experience in determining chemical composition, Calorific value. Flash point, Fire point analysing, Aniline point of petroleum products and various properties solid fuel i.e. VM, Ash, Moisture , and. Total 80 students benefitted the course.

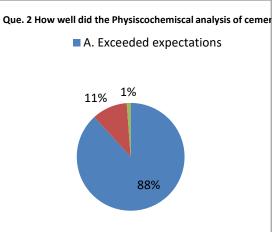
Feedback Analysis

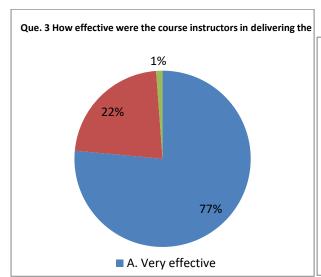
- 1) No. of students Registered & Admitted for the Course: 86
- 2) No. of students Participate in Course and submitted the feedback: 85
- 3) Question wise Analysis of the Feedback:

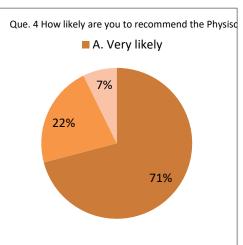
Sr.No.	Questions	Response in Percent (%)				
1	How would you rate the overall quality of the Physicochemical analysis of cement?	Excellent	Good	Average		
	cement?	82%	13%	5%		
2	How well did the Physicochemical	Exceeded	Met	Below		
	analysis of cement content meet your expectations	expectations	expectations	expectations		
		87%	11%	1%		
3	How effective were the course	Very	Effective	Ineffective		
	instructors in delivering the Physicochemical analysis of cement?	effective				
		76%	23%	1%		
4	How likely are you to recommend the	Very likely	Likely	Unlikely		

	Physicochemical analysis of cement to others?	39%	12%	4%
5	How satisfied are you with the	Very satisfied	Satisfied	Dissatisfied
	practical sessions of the	82%	16%	2%
	Physicochemical analysis of cement?			









Que.5How satisfied are you with the practical sessions of the Physiscochemiscal analysis of cement?

A. Very satisfied B. Satisfied

C. Dissatisfied

Internal Quality Assurance Cell
(IQAC)

S. S. E. S. A. Science College
Congress Nagar, Nagpur.



Principal
S. S. E. S. Amravati's
Science College, Nagpur.