



SETH GYANIRAM BANSIDHAR PODAR COLLEGE

Recognition of college under Section 2(f)/12(B), UGC Act, 1956
Affiliated to Pandit Deendayal Upadhyaya Shekhawati University, Sikar

CERTIFICATE FOR EXPERIENTIAL LEARNING DEPARTMENT OF CHEMISTRY

This certificate is awarded to

Student Name - Avinash Bugalia

in recognition of successful completion of the M.Sc. (Final) Chemistry Laboratory course

Date - 09/02/2023

This advanced practical course has further strengthened your knowledge and practical skills in various areas of chemistry, including:

Inorganic Chemistry: Preparing and characterizing inorganic compounds using diverse techniques, including handling air and moisture sensitive compounds, and analyzing them using infrared spectroscopy. Additionally, conducting quantitative analysis of complex mixtures.

Organic Chemistry: Separating, purifying, and identifying components of complex organic mixtures using advanced analytical techniques, performing multi-step syntheses involving diverse reactions, and extracting organic compounds from natural sources.

Physical Chemistry: Conducting in-depth experiments and analyzing data in various areas like thermodynamics, spectroscopy, polarography, and chemical kinetics to determine key parameters like partial molar volumes, enthalpy, activation energy, and reaction kinetics.

Avinash Bugalia has consistently demonstrated exceptional skills in advanced laboratory techniques, a thorough understanding of complex analytical methods, and the ability to apply their knowledge to design and execute experiments in various areas of physical and organic chemistry.

Signature of Instructor

Prof. Chetan Dadheech
Head of Department



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CERTIFICATE FOR EXPERIENTIAL LEARNING DEPARTMENT OF CHEMISTRY

This certificate is awarded to

Student Name - Babita

in recognition of successful completion of the M.Sc. (Final) Chemistry Laboratory course

Date - 09/02/2023

This advanced practical course has further strengthened your knowledge and practical skills in various areas of chemistry, including:

Inorganic Chemistry: Preparing and characterizing inorganic compounds using diverse techniques, including handling air and moisture sensitive compounds, and analyzing them using infrared spectroscopy. Additionally, conducting quantitative analysis of complex mixtures.

Organic Chemistry: Separating, purifying, and identifying components of complex organic mixtures using advanced analytical techniques, performing multi-step syntheses involving diverse reactions, and extracting organic compounds from natural sources.

Physical Chemistry: Conducting in-depth experiments and analyzing data in various areas like thermodynamics, spectroscopy, polarography, and chemical kinetics to determine key parameters like partial molar volumes, enthalpy, activation energy, and reaction kinetics.

Babita has consistently demonstrated exceptional skills in advanced laboratory techniques, a thorough understanding of complex analytical methods, and the ability to apply their knowledge to design and execute experiments in various areas of physical and organic chemistry.

Signature of Instructor

Prof. Chetan Dadheech

Head of Department



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CERTIFICATE FOR EXPERIENTIAL LEARNING DEPARTMENT OF CHEMISTRY

This certificate is awarded to

Student Name - Faiza Khatri

in recognition of successful completion of the M.Sc. (Final) Chemistry Laboratory course

Date - 09/02/2023

This advanced practical course has further strengthened your knowledge and practical skills in various areas of chemistry, including:

Inorganic Chemistry: Preparing and characterizing inorganic compounds using diverse techniques, including handling air and moisture sensitive compounds, and analyzing them using infrared spectroscopy. Additionally, conducting quantitative analysis of complex mixtures.

Organic Chemistry: Separating, purifying, and identifying components of complex organic mixtures using advanced analytical techniques, performing multi-step syntheses involving diverse reactions, and extracting organic compounds from natural sources.

Physical Chemistry: Conducting in-depth experiments and analyzing data in various areas like thermodynamics, spectroscopy, polarography, and chemical kinetics to determine key parameters like partial molar volumes, enthalpy, activation energy, and reaction kinetics.

Faiza Khatri has consistently demonstrated exceptional skills in advanced laboratory techniques, a thorough understanding of complex analytical methods, and the ability to apply their knowledge to design and execute experiments in various areas of physical and organic chemistry.

Signature of Instructor

Prof. Chetan Dadheech

Head of Department



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CERTIFICATE FOR EXPERIENTIAL LEARNING DEPARTMENT OF CHEMISTRY

This certificate is awarded to

Student Name - *Ishika Verma*

in recognition of successful completion of the M.Sc. (Final) Chemistry Laboratory course

Date - 09/02/2023

This advanced practical course has further strengthened your knowledge and practical skills in various areas of chemistry, including:

Inorganic Chemistry: Preparing and characterizing inorganic compounds using diverse techniques, including handling air and moisture sensitive compounds, and analyzing them using infrared spectroscopy. Additionally, conducting quantitative analysis of complex mixtures.

Organic Chemistry: Separating, purifying, and identifying components of complex organic mixtures using advanced analytical techniques, performing multi-step syntheses involving diverse reactions, and extracting organic compounds from natural sources.

Physical Chemistry: Conducting in-depth experiments and analyzing data in various areas like thermodynamics, spectroscopy, polarography, and chemical kinetics to determine key parameters like partial molar volumes, enthalpy, activation energy, and reaction kinetics.

***Ishika Verma* has consistently demonstrated exceptional skills in advanced laboratory techniques, a thorough understanding of complex analytical methods, and the ability to apply their knowledge to design and execute experiments in various areas of physical and organic chemistry.**

Signature of Instructor

Prof. Chetan Dadheech

Head of Department



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CERTIFICATE FOR EXPERIENTIAL LEARNING DEPARTMENT OF CHEMISTRY

This certificate is awarded to

Student Name - Kalpna Saini

in recognition of successful completion of the M.Sc. (Final) Chemistry Laboratory course

Date - 09/02/2023

This advanced practical course has further strengthened your knowledge and practical skills in various areas of chemistry, including:

Inorganic Chemistry: Preparing and characterizing inorganic compounds using diverse techniques, including handling air and moisture sensitive compounds, and analyzing them using infrared spectroscopy. Additionally, conducting quantitative analysis of complex mixtures.

Organic Chemistry: Separating, purifying, and identifying components of complex organic mixtures using advanced analytical techniques, performing multi-step syntheses involving diverse reactions, and extracting organic compounds from natural sources.

Physical Chemistry: Conducting in-depth experiments and analyzing data in various areas like thermodynamics, spectroscopy, polarography, and chemical kinetics to determine key parameters like partial molar volumes, enthalpy, activation energy, and reaction kinetics.

Kalpna Saini has consistently demonstrated exceptional skills in advanced laboratory techniques, a thorough understanding of complex analytical methods, and the ability to apply their knowledge to design and execute experiments in various areas of physical and organic chemistry.

Signature of Instructor

Prof. Chetan Dadheech

Head of Department



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CERTIFICATE FOR EXPERIENTIAL LEARNING DEPARTMENT OF CHEMISTRY

This certificate is awarded to

Student Name - Kiran

in recognition of successful completion of the M.Sc. (Final) Chemistry Laboratory course

Date - 09/02/2023

This advanced practical course has further strengthened your knowledge and practical skills in various areas of chemistry, including:

Inorganic Chemistry: Preparing and characterizing inorganic compounds using diverse techniques, including handling air and moisture sensitive compounds, and analyzing them using infrared spectroscopy. Additionally, conducting quantitative analysis of complex mixtures.

Organic Chemistry: Separating, purifying, and identifying components of complex organic mixtures using advanced analytical techniques, performing multi-step syntheses involving diverse reactions, and extracting organic compounds from natural sources.

Physical Chemistry: Conducting in-depth experiments and analyzing data in various areas like thermodynamics, spectroscopy, polarography, and chemical kinetics to determine key parameters like partial molar volumes, enthalpy, activation energy, and reaction kinetics.

Kiran has consistently demonstrated exceptional skills in advanced laboratory techniques, a thorough understanding of complex analytical methods, and the ability to apply their knowledge to design and execute experiments in various areas of physical and organic chemistry.

Signature of Instructor

**Prof. Chetan Dadheech
Head of Department**



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CERTIFICATE FOR EXPERIENTIAL LEARNING DEPARTMENT OF CHEMISTRY

This certificate is awarded to

Student Name - Komal Sain

in recognition of successful completion of the M.Sc. (Final) Chemistry Laboratory course

Date - 09/02/2023

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Inorganic Chemistry: Preparing and characterizing inorganic compounds using diverse techniques, including handling air and moisture sensitive compounds, and analyzing them using infrared spectroscopy. Additionally, conducting quantitative analysis of complex mixtures.

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Physical Chemistry: Conducting in-depth experiments and analyzing data in various areas like thermodynamics, spectroscopy, polarography, and chemical kinetics to determine key parameters like partial molar volumes, enthalpy, activation energy, and reaction kinetics.

Komal Sain has consistently demonstrated exceptional skills in advanced laboratory techniques, a thorough understanding of complex analytical methods, and the ability to apply their knowledge to design and execute experiments in various areas of physical and organic chemistry.

Signature of Instructor

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CERTIFICATE FOR EXPERIENTIAL LEARNING DEPARTMENT OF CHEMISTRY

This certificate is awarded to

Student Name - Lokesh Kumar

in recognition of successful completion of the M.Sc. (Final) Chemistry Laboratory course

Date - 09/02/2023

This advanced practical course has further strengthened your knowledge and practical skills in various areas of chemistry, including:

Inorganic Chemistry: Preparing and characterizing inorganic compounds using diverse techniques, including handling air and moisture sensitive compounds, and analyzing them using infrared spectroscopy. Additionally, conducting quantitative analysis of complex mixtures.

Organic Chemistry: Separating, purifying, and identifying components of complex organic mixtures using advanced analytical techniques, performing multi-step syntheses involving diverse reactions, and extracting organic compounds from natural sources.

Physical Chemistry: Conducting in-depth experiments and analyzing data in various areas like thermodynamics, spectroscopy, polarography, and chemical kinetics to determine key parameters like partial molar volumes, enthalpy, activation energy, and reaction kinetics.

Lokesh Kumar has consistently demonstrated exceptional skills in advanced laboratory techniques, a thorough understanding of complex analytical methods, and the ability to apply their knowledge to design and execute experiments in various areas of physical and organic chemistry.

Signature of Instructor

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Head of Department**



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CERTIFICATE FOR EXPERIENTIAL LEARNING DEPARTMENT OF CHEMISTRY

This certificate is awarded to

Student Name - Monika Kumai Saini

in recognition of successful completion of the M.Sc. (Final) Chemistry Laboratory course

Date - 09/02/2023

This advanced practical course has further strengthened your knowledge and practical skills in various areas of chemistry, including:

Inorganic Chemistry: Preparing and characterizing inorganic compounds using diverse techniques, including handling air and moisture sensitive compounds, and analyzing them using infrared spectroscopy. Additionally, conducting quantitative analysis of complex mixtures.

Organic Chemistry: Separating, purifying, and identifying components of complex organic mixtures using advanced analytical techniques, performing multi-step syntheses involving diverse reactions, and extracting organic compounds from natural sources.

Physical Chemistry: Conducting in-depth experiments and analyzing data in various areas like thermodynamics, spectroscopy, polarography, and chemical kinetics to determine key parameters like partial molar volumes, enthalpy, activation energy, and reaction kinetics.

Monika Kumai Saini has consistently demonstrated exceptional skills in advanced laboratory techniques, a thorough understanding of complex analytical methods, and the ability to apply their knowledge to design and execute experiments in various areas of physical and organic chemistry.

Signature of Instructor

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Head of Department**



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CERTIFICATE FOR EXPERIENTIAL LEARNING DEPARTMENT OF CHEMISTRY

This certificate is awarded to

Student Name - Ms.Monika

in recognition of successful completion of the M.Sc. (Final) Chemistry Laboratory course

Date - 09/02/2023

This advanced practical course has further strengthened your knowledge and practical skills in various areas of chemistry, including:

Inorganic Chemistry: Preparing and characterizing inorganic compounds using diverse techniques, including handling air and moisture sensitive compounds, and analyzing them using infrared spectroscopy. Additionally, conducting quantitative analysis of complex mixtures.

Organic Chemistry: Separating, purifying, and identifying components of complex organic mixtures using advanced analytical techniques, performing multi-step syntheses involving diverse reactions, and extracting organic compounds from natural sources.

Physical Chemistry: Conducting in-depth experiments and analyzing data in various areas like thermodynamics, spectroscopy, polarography, and chemical kinetics to determine key parameters like partial molar volumes, enthalpy, activation energy, and reaction kinetics.

Ms.Monika has consistently demonstrated exceptional skills in advanced laboratory techniques, a thorough understanding of complex analytical methods, and the ability to apply their knowledge to design and execute experiments in various areas of physical and organic chemistry.

Signature of Instructor

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Head of Department



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CERTIFICATE FOR EXPERIENTIAL LEARNING DEPARTMENT OF CHEMISTRY

This certificate is awarded to

Student Name - Ms.Nisha Surolia

in recognition of successful completion of the M.Sc. (Final) Chemistry Laboratory course

Date - 09/02/2023

This advanced practical course has further strengthened your knowledge and practical skills in various areas of chemistry, including:

Inorganic Chemistry: Preparing and characterizing inorganic compounds using diverse techniques, including handling air and moisture sensitive compounds, and analyzing them using infrared spectroscopy. Additionally, conducting quantitative analysis of complex mixtures.

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Physical Chemistry: Conducting in-depth experiments and analyzing data in various areas like thermodynamics, spectroscopy, polarography, and chemical kinetics to determine key parameters like partial molar volumes, enthalpy, activation energy, and reaction kinetics.

Ms.Nisha Surolia has consistently demonstrated exceptional skills in advanced laboratory techniques, a thorough understanding of complex analytical methods, and the ability to apply their knowledge to design and execute experiments in various areas of physical and organic chemistry.

Signature of Instructor

**Prof. Chetan Dadheech
Head of Department**



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CERTIFICATE FOR EXPERIENTIAL LEARNING DEPARTMENT OF CHEMISTRY

This certificate is awarded to

Student Name - Ms. Ronak Mahala

in recognition of successful completion of the M.Sc. (Final) Chemistry Laboratory course

Date - 09/02/2023

This advanced practical course has further strengthened your knowledge and practical skills in various areas of chemistry, including:

Inorganic Chemistry: Preparing and characterizing inorganic compounds using diverse techniques, including handling air and moisture sensitive compounds, and analyzing them using infrared spectroscopy. Additionally, conducting quantitative analysis of complex mixtures.

Organic Chemistry: Separating, purifying, and identifying components of complex organic mixtures using advanced analytical techniques, performing multi-step syntheses involving diverse reactions, and extracting organic compounds from natural sources.

Physical Chemistry: Conducting in-depth experiments and analyzing data in various areas like thermodynamics, spectroscopy, polarography, and chemical kinetics to determine key parameters like partial molar volumes, enthalpy, activation energy, and reaction kinetics.

Ms. Ronak Mahala has consistently demonstrated exceptional skills in advanced laboratory techniques, a thorough understanding of complex analytical methods, and the ability to apply their knowledge to design and execute experiments in various areas of physical and organic chemistry.

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CERTIFICATE FOR EXPERIENTIAL LEARNING DEPARTMENT OF CHEMISTRY

This certificate is awarded to

Student Name - Muskan

in recognition of successful completion of the M.Sc. (Final) Chemistry Laboratory course

Date - 09/02/2023

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Inorganic Chemistry: Preparing and characterizing inorganic compounds using diverse techniques, including handling air and moisture sensitive compounds, and analyzing them using infrared spectroscopy. Additionally, conducting quantitative analysis of complex mixtures.

Organic Chemistry: Separating, purifying, and identifying components of complex organic mixtures using advanced analytical techniques, performing multi-step syntheses involving diverse reactions, and extracting organic compounds from natural sources.

Physical Chemistry: Conducting in-depth experiments and analyzing data in various areas like thermodynamics, spectroscopy, polarography, and chemical kinetics to determine key parameters like partial molar volumes, enthalpy, activation energy, and reaction kinetics.

Muskan has consistently demonstrated exceptional skills in advanced laboratory techniques, a thorough understanding of complex analytical methods, and the ability to apply their knowledge to design and execute experiments in various areas of physical and organic chemistry.

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CERTIFICATE FOR EXPERIENTIAL LEARNING DEPARTMENT OF CHEMISTRY

This certificate is awarded to

Student Name - Narendra Kumar

in recognition of successful completion of the M.Sc. (Final) Chemistry Laboratory course

Date - 09/02/2023

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Inorganic Chemistry: Preparing and characterizing inorganic compounds using diverse techniques, including handling air and moisture sensitive compounds, and analyzing them using infrared spectroscopy. Additionally, conducting quantitative analysis of complex mixtures.

Organic Chemistry: Separating, purifying, and identifying components of complex organic mixtures using advanced analytical techniques, performing multi-step syntheses involving diverse reactions, and extracting organic compounds from natural sources.

Physical Chemistry: Conducting in-depth experiments and analyzing data in various areas like thermodynamics, spectroscopy, polarography, and chemical kinetics to determine key parameters like partial molar volumes, enthalpy, activation energy, and reaction kinetics.

Narendra Kumar has consistently demonstrated exceptional skills in advanced laboratory techniques, a thorough understanding of complex analytical methods, and the ability to apply their knowledge to design and execute experiments in various areas of physical and organic chemistry.

Signature of Instructor

Prof. Chetan Dadheech

Head of Department



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CERTIFICATE FOR EXPERIENTIAL LEARNING DEPARTMENT OF CHEMISTRY

This certificate is awarded to

Student Name - Nisha

in recognition of successful completion of the M.Sc. (Final) Chemistry Laboratory course

Date - 09/02/2023

This advanced practical course has further strengthened your knowledge and practical skills in various areas of chemistry, including:

Inorganic Chemistry: Preparing and characterizing inorganic compounds using diverse techniques, including handling air and moisture sensitive compounds, and analyzing them using infrared spectroscopy. Additionally, conducting quantitative analysis of complex mixtures.

Organic Chemistry: Separating, purifying, and identifying components of complex organic mixtures using advanced analytical techniques, performing multi-step syntheses involving diverse reactions, and extracting organic compounds from natural sources.

Physical Chemistry: Conducting in-depth experiments and analyzing data in various areas like thermodynamics, spectroscopy, polarography, and chemical kinetics to determine key parameters like partial molar volumes, enthalpy, activation energy, and reaction kinetics.

Nisha has consistently demonstrated exceptional skills in advanced laboratory techniques, a thorough understanding of complex analytical methods, and the ability to apply their knowledge to design and execute experiments in various areas of physical and organic chemistry.

Signature of Instructor

Prof. Chetan Dadheech

Head of Department



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CERTIFICATE FOR EXPERIENTIAL LEARNING DEPARTMENT OF CHEMISTRY

This certificate is awarded to

Student Name - Nisha Saini

in recognition of successful completion of the M.Sc. (Final) Chemistry Laboratory course

Date - 09/02/2023

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Physical Chemistry: Conducting in-depth experiments and analyzing data in various areas like thermodynamics, spectroscopy, polarography, and chemical kinetics to determine key parameters like partial molar volumes, enthalpy, activation energy, and reaction kinetics.

Nisha Saini has consistently demonstrated exceptional skills in advanced laboratory techniques, a thorough understanding of complex analytical methods, and the ability to apply their knowledge to design and execute experiments in various areas of physical and organic chemistry.

Signature of Instructor

Prof. Chetan Dadheech

Head of Department



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CERTIFICATE FOR EXPERIENTIAL LEARNING DEPARTMENT OF CHEMISTRY

This certificate is awarded to

Student Name - Nitin Surolia

in recognition of successful completion of the M.Sc. (Final) Chemistry Laboratory course

Date - 09/02/2023

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Organic Chemistry: Separating, purifying, and identifying components of complex organic mixtures using advanced analytical techniques, performing multi-step syntheses involving diverse reactions, and extracting organic compounds from natural sources.

Physical Chemistry: Conducting in-depth experiments and analyzing data in various areas like thermodynamics, spectroscopy, polarography, and chemical kinetics to determine key parameters like partial molar volumes, enthalpy, activation energy, and reaction kinetics.

Nitin Surolia has consistently demonstrated exceptional skills in advanced laboratory techniques, a thorough understanding of complex analytical methods, and the ability to apply their knowledge to design and execute experiments in various areas of physical and organic chemistry.

Signature of Instructor

Prof. Chetan Dadheech

Head of Department



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CERTIFICATE FOR EXPERIENTIAL LEARNING DEPARTMENT OF CHEMISTRY

This certificate is awarded to

Student Name - Pankaj Sharma

in recognition of successful completion of the M.Sc. (Final) Chemistry Laboratory course

Date - 09/02/2023

This advanced practical course has further strengthened your knowledge and practical skills in various areas of chemistry, including:

Inorganic Chemistry: Preparing and characterizing inorganic compounds using diverse techniques, including handling air and moisture sensitive compounds, and analyzing them using infrared spectroscopy. Additionally, conducting quantitative analysis of complex mixtures.

Organic Chemistry: Separating, purifying, and identifying components of complex organic mixtures using advanced analytical techniques, performing multi-step syntheses involving diverse reactions, and extracting organic compounds from natural sources.

Physical Chemistry: Conducting in-depth experiments and analyzing data in various areas like thermodynamics, spectroscopy, polarography, and chemical kinetics to determine key parameters like partial molar volumes, enthalpy, activation energy, and reaction kinetics.

Pankaj Sharma has consistently demonstrated exceptional skills in advanced laboratory techniques, a thorough understanding of complex analytical methods, and the ability to apply their knowledge to design and execute experiments in various areas of physical and organic chemistry.

Signature of Instructor

Prof. Chetan Dadheech

Head of Department



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CERTIFICATE FOR EXPERIENTIAL LEARNING DEPARTMENT OF CHEMISTRY

This certificate is awarded to

Student Name - Pintu Kumari

in recognition of successful completion of the M.Sc. (Final) Chemistry Laboratory course

Date - 09/02/2023

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Inorganic Chemistry: Preparing and characterizing inorganic compounds using diverse techniques, including handling air and moisture sensitive compounds, and analyzing them using infrared spectroscopy. Additionally, conducting quantitative analysis of complex mixtures.

Organic Chemistry: Separating, purifying, and identifying components of complex organic mixtures using advanced analytical techniques, performing multi-step syntheses involving diverse reactions, and extracting organic compounds from natural sources.

Physical Chemistry: Conducting in-depth experiments and analyzing data in various areas like thermodynamics, spectroscopy, polarography, and chemical kinetics to determine key parameters like partial molar volumes, enthalpy, activation energy, and reaction kinetics.

Pintu Kumari has consistently demonstrated exceptional skills in advanced laboratory techniques, a thorough understanding of complex analytical methods, and the ability to apply their knowledge to design and execute experiments in various areas of physical and organic chemistry.

Signature of Instructor

Prof. Chetan Dadheech

Head of Department



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CERTIFICATE FOR EXPERIENTIAL LEARNING DEPARTMENT OF CHEMISTRY

This certificate is awarded to

Student Name - Pooja Kumari

in recognition of successful completion of the M.Sc. (Final) Chemistry Laboratory course

Date - 09/02/2023

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Inorganic Chemistry: Preparing and characterizing inorganic compounds using diverse techniques, including handling air and moisture sensitive compounds, and analyzing them using infrared spectroscopy. Additionally, conducting quantitative analysis of complex mixtures.

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Physical Chemistry: Conducting in-depth experiments and analyzing data in various areas like thermodynamics, spectroscopy, polarography, and chemical kinetics to determine key parameters like partial molar volumes, enthalpy, activation energy, and reaction kinetics.

Pooja Kumari has consistently demonstrated exceptional skills in advanced laboratory techniques, a thorough understanding of complex analytical methods, and the ability to apply their knowledge to design and execute experiments in various areas of physical and organic chemistry.

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Head of Department



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CERTIFICATE FOR EXPERIENTIAL LEARNING DEPARTMENT OF CHEMISTRY

This certificate is awarded to

Student Name - Pramod Saini

in recognition of successful completion of the M.Sc. (Final) Chemistry Laboratory course

Date - 09/02/2023

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Physical Chemistry: Conducting in-depth experiments and analyzing data in various areas like thermodynamics, spectroscopy, polarography, and chemical kinetics to determine key parameters like partial molar volumes, enthalpy, activation energy, and reaction kinetics.

Pramod Saini has consistently demonstrated exceptional skills in advanced laboratory techniques, a thorough understanding of complex analytical methods, and the ability to apply their knowledge to design and execute experiments in various areas of physical and organic chemistry.

Signature of Instructor

Prof. Chetan Dadheech

Head of Department



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CERTIFICATE FOR EXPERIENTIAL LEARNING DEPARTMENT OF CHEMISTRY

This certificate is awarded to

Student Name - Praveen Kumar Gurjar

in recognition of successful completion of the M.Sc. (Final) Chemistry Laboratory course

Date - 09/02/2023

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Inorganic Chemistry: Preparing and characterizing inorganic compounds using diverse techniques, including handling air and moisture sensitive compounds, and analyzing them using infrared spectroscopy. Additionally, conducting quantitative analysis of complex mixtures.

Organic Chemistry: Separating, purifying, and identifying components of complex organic mixtures using advanced analytical techniques, performing multi-step syntheses involving diverse reactions, and extracting organic compounds from natural sources.

Physical Chemistry: Conducting in-depth experiments and analyzing data in various areas like thermodynamics, spectroscopy, polarography, and chemical kinetics to determine key parameters like partial molar volumes, enthalpy, activation energy, and reaction kinetics.

Praveen Kumar Gurjar has consistently demonstrated exceptional skills in advanced laboratory techniques, a thorough understanding of complex analytical methods, and the ability to apply their knowledge to design and execute experiments in various areas of physical and organic chemistry.

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Head of Department



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CERTIFICATE FOR EXPERIENTIAL LEARNING DEPARTMENT OF CHEMISTRY

This certificate is awarded to

Student Name - Priyanka Kumari Barjatia

in recognition of successful completion of the M.Sc. (Final) Chemistry Laboratory course

Date - 09/02/2023

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Physical Chemistry: Conducting in-depth experiments and analyzing data in various areas like thermodynamics, spectroscopy, polarography, and chemical kinetics to determine key parameters like partial molar volumes, enthalpy, activation energy, and reaction kinetics.

Priyanka Kumari Barjatia has consistently demonstrated exceptional skills in advanced laboratory techniques, a thorough understanding of complex analytical methods, and the ability to apply their knowledge to design and execute experiments in various areas of physical and organic chemistry.

Signature of Instructor

Prof. Chetan Dadheech

Head of Department



SETH GYANIRAM BANSIDHAR PODAR COLLEGE

Recognition of college under Section 2(f)/12(B), UGC Act, 1956
Affiliated to Pandit Deendayal Upadhyaya Shekhawati University, Sikar

CERTIFICATE FOR EXPERIENTIAL LEARNING DEPARTMENT OF CHEMISTRY

This certificate is awarded to

Student Name - Rahul Saini

in recognition of successful completion of the M.Sc. (Final) Chemistry Laboratory course

Date - 09/02/2023

This advanced practical course has further strengthened your knowledge and practical skills in various areas of chemistry, including:

Inorganic Chemistry: Preparing and characterizing inorganic compounds using diverse techniques, including handling air and moisture sensitive compounds, and analyzing them using infrared spectroscopy. Additionally, conducting quantitative analysis of complex mixtures.

Organic Chemistry: Separating, purifying, and identifying components of complex organic mixtures using advanced analytical techniques, performing multi-step syntheses involving diverse reactions, and extracting organic compounds from natural sources.

Physical Chemistry: Conducting in-depth experiments and analyzing data in various areas like thermodynamics, spectroscopy, polarography, and chemical kinetics to determine key parameters like partial molar volumes, enthalpy, activation energy, and reaction kinetics.

Rahul Saini has consistently demonstrated exceptional skills in advanced laboratory techniques, a thorough understanding of complex analytical methods, and the ability to apply their knowledge to design and execute experiments in various areas of physical and organic chemistry.

Signature of Instructor

Prof. Chetan Dadheech

Head of Department



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CERTIFICATE FOR EXPERIENTIAL LEARNING DEPARTMENT OF CHEMISTRY

This certificate is awarded to

Student Name - Rajesh Kumar

in recognition of successful completion of the M.Sc. (Final) Chemistry Laboratory course

Date - 09/02/2023

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Physical Chemistry: Conducting in-depth experiments and analyzing data in various areas like thermodynamics, spectroscopy, polarography, and chemical kinetics to determine key parameters like partial molar volumes, enthalpy, activation energy, and reaction kinetics.

Rajesh Kumar has consistently demonstrated exceptional skills in advanced laboratory techniques, a thorough understanding of complex analytical methods, and the ability to apply their knowledge to design and execute experiments in various areas of physical and organic chemistry.

Signature of Instructor

Prof. Chetan Dadheech

Head of Department



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CERTIFICATE FOR EXPERIENTIAL LEARNING DEPARTMENT OF CHEMISTRY

This certificate is awarded to

Student Name - Rajnish Kumar Saini

in recognition of successful completion of the M.Sc. (Final) Chemistry Laboratory course

Date - 09/02/2023

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Physical Chemistry: Conducting in-depth experiments and analyzing data in various areas like thermodynamics, spectroscopy, polarography, and chemical kinetics to determine key parameters like partial molar volumes, enthalpy, activation energy, and reaction kinetics.

Rajnish Kumar Saini has consistently demonstrated exceptional skills in advanced laboratory techniques, a thorough understanding of complex analytical methods, and the ability to apply their knowledge to design and execute experiments in various areas of physical and organic chemistry.

Signature of Instructor

**Prof. Chetan Dadheech
Head of Department**



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CERTIFICATE FOR EXPERIENTIAL LEARNING DEPARTMENT OF CHEMISTRY

This certificate is awarded to

Student Name - Renu Kumari

in recognition of successful completion of the M.Sc. (Final) Chemistry Laboratory course

Date - 09/02/2023

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Physical Chemistry: Conducting in-depth experiments and analyzing data in various areas like thermodynamics, spectroscopy, polarography, and chemical kinetics to determine key parameters like partial molar volumes, enthalpy, activation energy, and reaction kinetics.

Renu Kumari has consistently demonstrated exceptional skills in advanced laboratory techniques, a thorough understanding of complex analytical methods, and the ability to apply their knowledge to design and execute experiments in various areas of physical and organic chemistry.

Signature of Instructor

Prof. Chetan Dadheech

Head of Department



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CERTIFICATE FOR EXPERIENTIAL LEARNING DEPARTMENT OF CHEMISTRY

This certificate is awarded to

Student Name - Vandana Boyal

in recognition of successful completion of the M.Sc. (Final) Chemistry Laboratory course

Date - 09/02/2023

This advanced practical course has further strengthened your knowledge and practical skills in various areas of chemistry, including:

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Physical Chemistry: Conducting in-depth experiments and analyzing data in various areas like thermodynamics, spectroscopy, polarography, and chemical kinetics to determine key parameters like partial molar volumes, enthalpy, activation energy, and reaction kinetics.

Vandana Boyal has consistently demonstrated exceptional skills in advanced laboratory techniques, a thorough understanding of complex analytical methods, and the ability to apply their knowledge to design and execute experiments in various areas of physical and organic chemistry.

Signature of Instructor

**Prof. Chetan Dadheech
Head of Department**



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CERTIFICATE FOR EXPERIENTIAL LEARNING DEPARTMENT OF CHEMISTRY

This certificate is awarded to

Student Name - Vikash Sharma

in recognition of successful completion of the M.Sc. (Final) Chemistry Laboratory course

Date - 09/02/2023

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Physical Chemistry: Conducting in-depth experiments and analyzing data in various areas like thermodynamics, spectroscopy, polarography, and chemical kinetics to determine key parameters like partial molar volumes, enthalpy, activation energy, and reaction kinetics.

Vikash Sharma has consistently demonstrated exceptional skills in advanced laboratory techniques, a thorough understanding of complex analytical methods, and the ability to apply their knowledge to design and execute experiments in various areas of physical and organic chemistry.

Signature of Instructor

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CERTIFICATE FOR EXPERIENTIAL LEARNING DEPARTMENT OF CHEMISTRY

This certificate is awarded to

Student Name - Yogendra Parihar

in recognition of successful completion of the M.Sc. (Final) Chemistry Laboratory course

Date - 09/02/2023

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Physical Chemistry: Conducting in-depth experiments and analyzing data in various areas like thermodynamics, spectroscopy, polarography, and chemical kinetics to determine key parameters like partial molar volumes, enthalpy, activation energy, and reaction kinetics.

Yogendra Parihar has consistently demonstrated exceptional skills in advanced laboratory techniques, a thorough understanding of complex analytical methods, and the ability to apply their knowledge to design and execute experiments in various areas of physical and organic chemistry.

Signature of Instructor

**Prof. Chetan Dadheech
Head of Department**