

Nashik Gramin Shikshan Prasarak Mandal's,
College of Pharmacy
Brahma valley educational campus,
Anjaneri, Nashik – 422 213
Phone No. : (02594) 220146, 220147

DETAILS OF CERTIFICATE /ADD-ON COURSES

ACADEMIC YEAR-2021-22

**(Summary of Add-on Courses, Notice
Brochure, List of Students Enrolled,
Attendance, Specimen Certificates)**



NASHIK GRAMIN SHIKSHAN PRASARAK MANDAL'S

College of Pharmacy

BRAHMA VALLEY EDUCATIONAL CAMPUS

Anjaneri, Nashik – 422 213

Phone No. : (02594) 220146, 220147

Established in 2006-07

List of Add on / Certificate Programs

Academic Year – 2021-22

Sr.No	Name of Add on / Certificate programs	Date & Duration (start date –End date)	No of student enrolled in the year	No.of times offered during the same year	Duration of course	Conducting Agency / Institution	Name of faculty coordinator & specialization
1	Communication Skills	17/ 1/22-26/2/22	55	One	36 Hrs	NGSPM's College of Pharmacy Anjaneri Nashik	Mr.Rohit.P.Mali (Pharmacognosy)
2	Unit operations	17/ 1/22-26/2/22	72	One	36 Hrs	NGSPM's College of Pharmacy Anjaneri Nashik	Dr.V.D. Wagh (Pharmaceutics)
3	Hands on Training on Analytical instruments	12/7/21-21/8/21	36	One	36 Hrs	NGSPM's College of Pharmacy Anjaneri Nashik	Mr.S.D.Bhandare (Pharm.chemistry)
4	Care, Handling and use of Small Laboratory Animal	12/7/21-21/8/21	35	One	36 Hrs	NGSPM's college of Pharmacy Anjaneri Nashik	Mr.P.T.Deshmukh (Pharmacology)
5	Tablet manufacturing	17/ 1/22-26/2/22	39	One	36 Hrs	NGSPM's College of Pharmacy Anjaneri Nashik	Mrs.H.S.Ishi (Pharm.chemistry)
6	General Course on IPR	17/ 1/22-26/2/22	37	One	36 Hrs	NGSPM's College of Pharmacy Anjaneri Nashik	Ms.S.S.Gaikwad (Pharm.Chemistry)

R. Anand

In-charge



V. Wagh

Principal
PRINCIPAL

NGSPM's College of Pharmacy
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Assessment Procedure of Add On / Certificate Programs
Academic Year -2021-2022

Sr.no	Name of Add on / Certificate programs	Assessment Procedures
1	Communication Skills	<ul style="list-style-type: none">• MCQ Based Exam• Practical Experiment• Viva Voce
2	Unit operations Care	
3	Hands on Training on analytical instruments Tablet manufacturing	
4	Care, Handling and use of small laboratory animals	<ul style="list-style-type: none">• MCQ Based Exam• Practical Experiment• Viva Voce
5	Tablet Manufacturing	
6	General Course on IPR	

R. P. msl

In-charge



V. M. B.

Principal

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Brochure of Certificate / Add on Course 2021-2022

Name of Certificate/ Add on Course		Communication Skills (CS2/1)
Name of Coordinator		Mr.Rohit P.Mali (Assistant Professor)
Duration of Activity		(17/1/22- 26/2/22)
Class		First Year B.Pharm
Contact Hours/ Schedule		36 Hrs
Aim/Objective : Towards the completion of this course, students should be able to learn how to communicate more effectively at work and achieve your goals. Communication skills is an essential and course designed to give both the tools you need to improve your communication skills and the most successful strategies for using them to your advantages.		
Learning Outcomes: On successful completion of this course, a student will be expected to be able to :		
Lower order	30%	▪ To understand the importance of effective communication, and how to harness the power of setting goals to improve your performance.
Middle order	60%	▪ To create memorable and persuasive messages, ask thoughtful questions, engage in active listening, and choose the right medium (face to face conversation, video conference ,phone cell, or email) for your messages.
Higher order	10%	▪ To communicate effectively using the right medium and use goal setting to increase your productivity and boost your performance ▪ To understand what others, want respond strategically to their wants, and needs ,craft convincing and clear messages and develop the critical communication skills you need to get ahead in business and in life
Course contents/Curriculum – (Topics Covered/ Activities and hands on training etc.)		
▪ Communication Skills <ul style="list-style-type: none">➤ What is personality, Greetings➤ What employers wants➤ Verbal and Non-Verbal➤ Stages & Barriers of Communication➤ Do's & Don'ts of positive Impression➤ Gesture & Posture, Way of Shaking Hand & Body Language		
▪ Basic English Usage <ul style="list-style-type: none">➤ Basic parts of Speech & Tenses➤ Construction of sentences, Uses of Articles➤ How to construct short meaningful sentences		
▪ Written Communication <ul style="list-style-type: none">➤ Different Types of Written Communication➤ Structure of Business Letter		
Assessment procedure : The assessment is done on the following parameters.		
▪ MCQ Base Examination - 50 %	▪ Practical experiment - 25 %	▪ Viva Voce - 25 %

R. Patel

In-charge



W. J. ...

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Brochure of Certificate / Add on Course

2021-2022

Name of Certificate/ Add on Course	Unit Operation (PCG4/1)	
Name of Coordinator	Dr.V.D.Wagh	
Duration of Activity	(17/1/22 – 26/2/22)	
Class	Second Year B.Pharm	
Contact Hours/ Schedule	36 Hrs	
Aim/Objective : Towards the completion of this course, students should be able to understand the theoretical basis of unit operation and develop skill set in unit operations		
Learning Outcomes: On successful completion of this course, a student will be expected to be able to :		
Lower order	30%	<ul style="list-style-type: none">Describe various types unit operations used in laboratories.Understand the theoretical basis of unit operationSkill set required for setup of assembly for unit operation
Middle order	60%	<ul style="list-style-type: none">Demonstrate the skill sets for various unit operationDesign experimental methodologies.
Higher order	10%	<ul style="list-style-type: none">Explain the basic operations involved in the synthesis, purification of chemicalApply the skill set for various unit operations.Decide the most suitable unit operation for given process.Work independently and become an effective team player
Course contents/Curriculum – (Topics Covered/ Activities and hands on training etc.) <ul style="list-style-type: none">DistillationFractional DistillationVacuum DistillationUse of Rotary Vacuum evaporatorSteam DistillationColumn chromatographyUse of overhead stirrer for various reactions.Liquid-Liquid extractionMethods of generating and drying various laboratory gases.		
Assessment procedure : The assessment is done on the following parameters. <ul style="list-style-type: none">MCQ Base Examination - 50 %Practical experiment - 25 %Viva Voce - 25 %		

R. B. Mali

In-charge



V. D. Wagh

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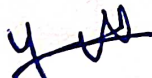
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Brochure of Certificate / Add on Course
2021-2022

Name of Certificate/ Add on Course	Care, Handling and use of Small Laboratory Animals (PL5/2)	
Name of Coordinator	Mr.Pradip.T.Deshmukh (Assistant Professor)	
Duration of Activity	(12/7/21- 21/8/21)	
Class	T.Y.B.Pharmacy	
Contact Hours/ Schedule	36 Hrs.	
Aim/Objective : To inculcate compassionate care, efficient handling & proficient use of the small laboratory animals among learner.		
Learning Outcomes: On successful completion of this course, a student will be expected to be able to :		
Lower order	30%	<ul style="list-style-type: none">Describe human care of animalsUnderstand harm to animalsIdentify different types of small laboratory animals and their uses in the research.
Middle order	60%	<ul style="list-style-type: none">Explain specific & minimum standard for care/handling of rat, mice and guinea pigDemonstrate use of minimum standard for nutrition, water provision, Enclosure/housing, space requirement ,nesting etc.Maintenance of ambience of animals rooms for proper research output.Able to administer drugs through different routes of administration in routine use.
Higher order	10%	<ul style="list-style-type: none">To anaesthetized animals for retro-orbital blood collectionTo prepare container for blood collectionTo collect blood without haemolysisTo understand proper storage of blood during and after collection blood
Course contents/Curriculum – (Topics Covered/ Activities and hands on training etc.) <ul style="list-style-type: none">Discussion about humane use of animalsDiscussion about harm to animalsDiscussion of different types of small laboratory animals and their uses in the research.Discussion and hands on specific requirement for handling of small laboratory animals.Discussion and hands on minimum standard requirement for nutrition, water provision etcExplanation of requirement for blood collectionDiscussion and hands on of blood collection from tail vein		
Assessment procedure : The assessment is done on the following parameters. <ul style="list-style-type: none">MCQ Base Examination - 50 %Practical experiment - 25 %Viva Voce - 25 %		


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Brochure of Certificate / Add on Course
2021 -2022

Name of Certificate/ Add on Course	Hands on training on Analytical Instruments (PC5/1)	
Name of Coordinator	Mr. SaurabhD. Bhandari (Assistant Professor)	
Duration of Activity	(12/7/21- 21/8/21)	
Class	Third Year B. Pharmacy	
Contact Hours/ Schedule	36 Hrs.	
Aim/Objective : Towards the completion of this course, students should be able to understand the theoretical basis and operation of modern instruments used in chemical analysis and apply them in the analysis of real samples.		
Learning Outcomes: On successful completion of this course, a student will be expected to be able to :		
Lower order	30%	<ul style="list-style-type: none">Describe various types of instrumental techniques used in chemistryUnderstand the theoretical basis of chemical instrumentsIdentify the components and uses of various parts of chemical instruments.
Middle order	60%	<ul style="list-style-type: none">Apply the use of instruments in chemical analysisDesign experimental methodologies using proper instrumentsCollect, analyse and manage experimental data using chemical instruments.
Higher order	10%	<ul style="list-style-type: none">To evaluate & statistically analyse the data gathered using various instrumental techniquesInterpret the results of chemical analysisProduce scientific reports based on laboratory dataWork independently and become an effective team player
Course contents/Curriculum – (Topics Covered/ Activities and hands on training etc.) <ul style="list-style-type: none">Overview of Instrumental Analysis and Measurements<ul style="list-style-type: none">Types of instruments for analysisInstrumental componentsCalibrationSignal to noise enhancementUV-Visible absorption spectrometryInfrared spectrometry (FTIR)Chromatographic methods (HPLC)Differential Scanning Calorimetry (DSC)		
Assessment procedure: The assessment is done on the following parameters. <ul style="list-style-type: none">MCQ Base Examination - 50 %Practical experiment - 25 %Viva Voce - 25 %		

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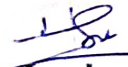
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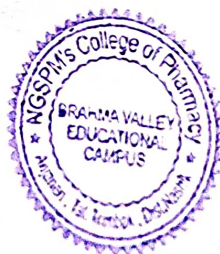
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Brochure of Certificate / Add on Course
2021-2022

Name of Certificate/ Add on Course	Tablet Manufacturing (PH8/1)	
Name of Coordinator	Mrs.H.S.Ishi (Assistant Professor)	
Duration of Activity	(17/1/22 – 20/2/22)	
Class	Final Year B. Pharmacy	
Contact Hours/ Schedule	36 Hrs.	
Aim/Objective : Towards the completion of this course, students should be able to understand the basics of tablet compression, consolidation, coating and hands on experience working on tablet compression machine as well as in vitro characterization of tablet in detail.		
Learning Outcomes: On successful completion of this course, a student will be expected to be able to :		
Lower order	30%	<ul style="list-style-type: none">Understand the physics of tablet compressionUnderstand the mechanism of tablet compressionLearn various methods of tablet compression, coating and excipient selection
Middle order	60%	<ul style="list-style-type: none">Operation and assembling of tablet compression machineSelection of tablet excipients on the basis of physical properties.
Higher order	10%	<ul style="list-style-type: none">To evaluate the prepared tablets for in vitro parametersTo overcome the tablet manufacturing defects
Course contents/Curriculum – (Topics Covered/ Activities and hands on training etc.) <ul style="list-style-type: none">Introduction to tablet, Definition, Types of Tablets, GranulationPre compression and post compression parametersGranulation by wet granulationGranulation by dry granulationStudy of tablet compression machineAssemble tablet machine for tablet preparationTablet compressionEvaluation of Prepared TabletsCalculation of dissolution studyIntroduction to Tablet Coating MachineCoating of tabletsEvaluation of coated tablet		
Assessment procedure: The assessment is done on the following parameters. <ul style="list-style-type: none">MCQ Base Examination - 50 %Practical experiment - 25 %Viva Voce - 25 %		


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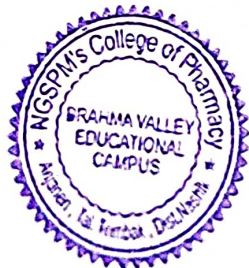
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Brochure of Certificate / Add on Course

2021-2022

Name of Certificate/ Add on Course	General Course on IPR (IP8/2)	
Name of Coordinator	Miss .Sakshi.S.Gaikwad (Assistant Professor)	
Duration of Activity	(17/1/22 – 26/2/22)	
Class	Final Year B.Pharm	
Contact Hours/ Schedule	36 Hrs	
Aim/Objective : The objective of this course is to provide in depth knowledge of the laws and process related to Trademarks, Copyright and other forms of IPs with focus on Patents, the Indian and International Patent filing procedure, drafting patent application and conducting prior art searches.		
Learning Outcomes: On successful completion of this course, a student will be expected to be able to :		
Lower order	30%	▪ To understand key basic concepts of IP like Patents, Copy right, Trademarks, Industrial design etc
Middle order	60%	▪ To understand the conventions and treaties for implementation of IP like Patent, Copy right, Trademarks, Industrial design etc. ▪ To understand and explore the uses of IPR in Pharmaceuticals.
Higher order	10%	▪ To use various IPRs and try to explore these for their commercial aspects.
Course contents/Curriculum – (Topics Covered/ Activities and hands on training etc.) <ul style="list-style-type: none">▪ Introduction to all IPs▪ International conventions and treaties▪ Patent filling application▪ Patent compulsory Licensing▪ Patent Case Studies▪ Copy rights▪ Trademarks▪ Industrial designs▪ Geographical Indication		
Assessment procedure : The assessment is done on the following parameters. <ul style="list-style-type: none">▪ MCQ Base Examination - 50 %▪ Practical experiment - 25 %▪ Viva Voce - 25 %		

S.S. Gaikwad
In-charge



[Signature]
Principal

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DETAILS OF CERTIFICATE /ADD-ON COURSES

ACADEMIC YEAR-2020-21

**(Summary of Add-on Courses, Notice
Brochure, List of Students Enrolled,
Attendance, Specimen Certificates)**



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List of Add on / Certificate Programs
Academic Year – 2020-21

Sr.No	Name of Add on / Certificate programs	Date & Duration (start date –End date)	No of student enrolled in the year	No.of times offered during the same year	Duration of course	Conducting Agency / Institution	Name of faculty coordinator & specialization
1	Hands on Training on analytical instruments	17/8/20-26/9/20	40	One	36 Hrs	NGSPM's College of Pharmacy Anjaneri Nashik	Mr.Saurabh D.Bhandare (Pharm chemistry)
2	Care, Handling and use of small laboratory animals	17/8/20-26/9/20	40	One	36 Hrs	NGSPM's College of Pharmacy Anjaneri Nashik	Mr.Pradip.T. Deshmukh (Pharmacology)
5	General Course on IPR	25/1/21-6/3/21	68	One	36 Hrs	NGSPM's College of Pharmacy Anjaneri Nashik	Miss.Sakshi.S. Gaikwad (Pharm.chemistry)

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**Assessment Procedure of Add On / Certificate Programs
Academic Year -2020-2021**

Sr.no	Name of Add on / Certificate programs	Assessment Procedures
1	Hands on Training on analytical instruments	<ul style="list-style-type: none">• MCQ Based Exam• Practical Experiment• Viva Voce
2	Care, Handling and use of small laboratory animals	
3	General Course on IPR	


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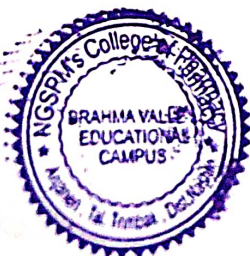
Brochure of Certificate / Add on Course

2020 -2021

Name of Certificate/ Add on Course	Hands on training on Analytical Instruments (PC5/1)	
Name of Coordinator	Mr.Saurabh D. Bhandari (Assistant Professor)	
Duration of Activity	(17/8/20- 26/9/20)	
Class	Third Year B.Pharm	
Contact Hours/ Schedule	36 Hrs.	
Aim/Objective : Towards the completion of this course, students should be able to understand the theoretical basis and operation of modern instruments used in chemical analysis and apply them in the analysis of real samples.		
Learning Outcomes: On successful completion of this course, a student will be expected to be able to :		
Lower order	30%	<ul style="list-style-type: none">Describe various types of instrumental techniques used in chemistryUnderstand the theoretical basis of chemical instrumentsIdentify the components and uses of various parts of chemical instruments.
Middle order	60%	<ul style="list-style-type: none">Apply the use of instruments in chemical analysisDesign experimental methodologies using proper instrumentsCollect, analyse and manage experimental data using chemical instruments.
Higher order	10%	<ul style="list-style-type: none">To evaluate & statistically analyse the data gathered using various instrumental techniquesInterpret the results of chemical analysisProduce scientific reports based on laboratory dataWork independently and become an effective team player
Course contents/Curriculum – (Topics Covered/ Activities and hands on training etc.) <ul style="list-style-type: none">Overview of Instrumental Analysis and Measurements<ul style="list-style-type: none">Types of instruments for analysisInstrumental componentsCalibrationSignal to noise enhancementUV-Visible absorption spectrometryInfrared spectrometry (FTIR)Chromatographic methods (HPLC)Differential Scanning Calorimetry (DSC)		
Assessment procedure : The assessment is done on the following parameters. <ul style="list-style-type: none">MCQ Base Examination - 50 %Practical experiment - 25 %Viva Voce - 25 %		

S. Bhandari

In-charge



V. Bhandari
Principal

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Brochure of Certificate / Add on Course
2020-2021

Name of Certificate/ Add on Course	Care, Handling and use of Small Laboratory Animals (PL5/2)	
Name of Coordinator	Mr.Pradip.T.Deshmukh (Assistant Professor)	
Duration of Activity	(17/8/20 - 26/9/20)	
Class	T.Y.B.Pharmacy	
Contact Hours/ Schedule	36 Hrs.	
Aim/Objective : To inculcate compassionate care, efficient handling & proficient use of the small laboratory animals among learner.		
Learning Outcomes: On successful completion of this course, a student will be expected to be able to :		
Lower order	30%	<ul style="list-style-type: none">Describe human care of animalsUnderstand harm to animalsIdentify different types of small laboratory animals and their uses in the research.
Middle order	60%	<ul style="list-style-type: none">Explain specific & minimum standard for care/handling of rat, mice and guinea pigDemonstrate use of minimum standard for nutrition, water provision, Enclosure/housing, space requirement, nesting etc.Maintenance of ambience of animals rooms for proper research output.Able to administer drugs through different routes of administration in routine use.
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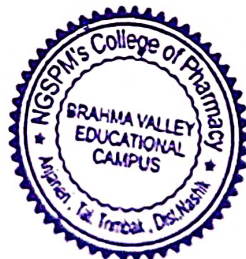
Brochure of Certificate / Add on Course

2020-2021

Name of Certificate/ Add on Course	General Course on IPR (IP8/1)	
Name of Coordinator	Miss .Sakshi.S.Gaikwad (Assistant Professor)	
Duration of Activity	(25/1/21- 6/3/21)	
Class	Final Year B.Pharm	
Contact Hours/ Schedule	36 Hrs	
Aim/Objective : The objective of this course is to provide in depth knowledge of the laws and process related to Trademarks, Copyright and other forms of IPs with focus on Patents, the Indian and International Patent filing procedure, drafting patent application and conducting prior art searches.		
Learning Outcomes: On successful completion of this course, a student will be expected to be able to :		
Lower order	30%	▪ To understand key basic concepts of IP like Patents, Copy right, Trademarks, Industrial design etc
Middle order	60%	▪ To understand the conventions and treaties for implementation of IP like Patent, Copy right, Trademarks, Industrial design etc. ▪ To understand and explore the uses of IPR in Pharmaceuticals.
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S.S. Gaikwad

In-charge



M. J. B.
Principal

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3	Hands on Training on Analytical instruments	15/7/19-24/8/19	33	One	36 Hrs	NGSPM's College of Pharmacy Anjaneri Nashik	Mr. S.S.Kakade (Pharm.chemistry)
4	Care, Handling and use of Small Laboratory Animal	15/7/19-24/8/19	31	One	36 Hrs	NGSPM's college of Pharmacy Anjaneri Nashik	Ms.Y.N.Nikumbh (Pharmacology)
5	Tablet manufacturing	13/1/20-22/2/20	27	One	36 Hrs	NGSPM's College of Pharmacy Anjaneri Nashik	Mrs.S.S.Malode (Pharmaceutics)
6	General Course on IPR	13/ 1/20-22/2/20	25	One	36 Hrs	NGSPM's College of Pharmacy Anjaneri Nashik	Ms.H.B.Saindane (Pharm.Chemistry)

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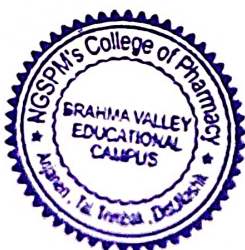
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**Assessment Procedure of Add On / Certificate Programs
Academic Year -2019-2020**

Sr.no	Name of Add on / Certificate programs	Assessment Procedures
1	Communication Skills	<ul style="list-style-type: none">• MCQ Based Exam• Practical Experiment• Viva Voce
2	Unit operations Care	
3	Hands on Training on analytical instruments Tablet manufacturing	
4	Care, Handling and use of small laboratory animals	<ul style="list-style-type: none">• MCQ Based Exam• Practical Experiment• Viva Voce
5	Tablet Manufacturing	
6	General Course on IPR	

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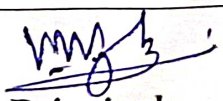
Established in 2006-07

Brochure of Certificate / Add on Course 2019-2020

Name of Certificate/ Add on Course	Communication Skills (CS2/1)	
Name of Coordinator	Mr.Rohit P.Mali (Assistant Professor)	
Duration of Activity	(13/1/20- 22/2/20)	
Class	First Year B.Pharm	
Contact Hours/ Schedule	36 Hrs	
Aim/Objective : Towards the completion of this course, students should be able to learn how to communicate more effectively at work and achieve your goals. Communication skills is an essential and course designed to give both the tools you need to improve your communication skills and the most successful strategies for using them to your advantages.		
Learning Outcomes: On successful completion of this course, a student will be expected to be able to :		
Lower order	30%	▪ To understand the importance of effective communication, and how to harness the power of setting goals to improve your performance.
Middle order	60%	▪ To create memorable and persuasive messages, ask thoughtful questions, engage in active listening, and choose the right medium (face to face conversation, video conference ,phone cell, or email) for your messages.
Higher order	10%	▪ To communicate effectively using the right medium and use goal setting to increase your productivity and boost your performance ▪ To understand what others, want respond strategically to their wants, and needs ,craft convincing and clear messages and develop the critical communication skills you need to get ahead in business and in life
Course contents/Curriculum – (Topics Covered/ Activities and hands on training etc.)		
▪ Communication Skills		
➤ What is personality, Greetings		
➤ What employers wants		
➤ Verbal and Non-Verbal		
➤ Stages & Barriers of Communication		
➤ Do's & Don'ts of positive Impression		
➤ Gesture & Posture, Way of Shaking Hand & Body Language		
▪ Basic English Usage		
➤ Basic parts of Speech & Tenses		
➤ Construction of sentences, Uses of Articles		
➤ How to construct short meaningful sentences		
▪ Written Communication		
➤ Different Types of Written Communication		
➤ Structure of Business Letter		
Assessment procedure : The assessment is done on the following parameters.		
▪ MCQ Base Examination - 50 %	▪ Practical experiment - 25 %	▪ Viva Voce - 25 %


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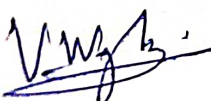
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Brochure of Certificate / Add on Course
2019- 2020

Name of Certificate/ Add on Course	Unit Operation (PCG4/1)	
Name of Coordinator	Dr.V.D.Wagh	
Duration of Activity	(10/1/22 – 22/2/20)	
Class	Second Year B.Pharm	
Contact Hours/ Schedule	36 Hrs	
Aim/Objective : Towards the completion of this course, students should be able to understand the theoretical basis of unit operation and develop skill set in unit operations		
Learning Outcomes: On successful completion of this course, a student will be expected to be able to :		
Lower order	30%	<ul style="list-style-type: none">Describe various types unit operations used in laboratories.Understand the theoretical basis of unit operationSkill set required for setup of assembly for unit operation
Middle order	60%	<ul style="list-style-type: none">Demonstrate the skill sets for various unit operationDesign experimental methodologies.
Higher order	10%	<ul style="list-style-type: none">Explain the basic operations involved in the synthesis, purification of chemicalApply the skill set for various unit operations.Decide the most suitable unit operation for given process.Work independently and become an effective team player
Course contents/Curriculum – (Topics Covered/ Activities and hands on training etc.) <ul style="list-style-type: none">DistillationFractional DistillationVacuum DistillationUse of Rotary Vacuum evaporatorSteam DistillationColumn chromatographyUse of overhead stirrer for various reactions.Liquid-Liquid extractionMethods of generating and drying various laboratory gases.		
Assessment procedure : The assessment is done on the following parameters. <ul style="list-style-type: none">MCQ Base Examination - 50 %Practical experiment - 25 %Viva Voce - 25 %		


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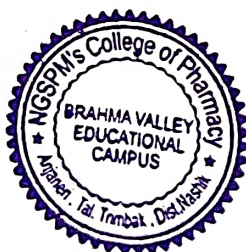
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Brochure of Certificate / Add on Course
2019 -2020

Name of Certificate/ Add on Course	Hands on training on Analytical Instruments (PC5/1)	
Name of Coordinator	Ms.S.S.Kakade (Assistant Professor)	
Duration of Activity	(15/7/19 – 24/8/19)	
Class	Third Year B.Pharm	
Contact Hours/ Schedule	36 Hrs.	
Aim/Objective : Towards the completion of this course, students should be able to understand the theoretical basis and operation of modern instruments used in chemical analysis and apply them in the analysis of real samples.		
Learning Outcomes: On successful completion of this course, a student will be expected to be able to :		
Lower order	30%	<ul style="list-style-type: none">Describe various types of instrumental techniques used in chemistryUnderstand the theoretical basis of chemical instrumentsIdentify the components and uses of various parts of chemical instruments.
Middle order	60%	<ul style="list-style-type: none">Apply the use of instruments in chemical analysisDesign experimental methodologies using proper instrumentsCollect, analyse and manage experimental data using chemical instruments.
Higher order	10%	<ul style="list-style-type: none">To evaluate & statistically analyse the data gathered using various instrumental techniquesInterpret the results of chemical analysisProduce scientific reports based on laboratory dataWork independently and become an effective team player
Course contents/Curriculum – (Topics Covered/ Activities and hands on training etc.) <ul style="list-style-type: none">Overview of Instrumental Analysis and Measurements<ul style="list-style-type: none">Types of instruments for analysisInstrumental componentsCalibrationSignal to noise enhancementUV-Visible absorption spectrometryInfrared spectrometry (FTIR)Chromatographic methods (HPLC)Differential Scanning Calorimetry (DSC)		
Assessment procedure : The assessment is done on the following parameters. <ul style="list-style-type: none">MCQ Base Examination - 50 %Practical experiment - 25 %Viva Voce - 25 %		

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Brochure of Certificate / Add on Course
2019-2020

Name of Certificate/ Add on Course	Care, Handling and use of Small Laboratory Animals (PL5/2)	
Name of Coordinator	Ms.Y.N.Nikumbh (Assistant Professor)	
Duration of Activity	(15/7/19 -24/8/19)	
Class	T.Y.B.Pharmacy	
Contact Hours/ Schedule	36 Hrs.	
Aim/Objective : To inculcate compassionate care, efficient handling & proficient use of the small laboratory animals among learner.		
Learning Outcomes: On successful completion of this course, a student will be expected to be able to :		
Lower order	30%	<ul style="list-style-type: none">Describe human care of animalsUnderstand harm to animalsIdentify different types of small laboratory animals and their uses in the research.
Middle order	60%	<ul style="list-style-type: none">Explain specific & minimum standard for care/handling of rat, mice and guinea pigDemonstrate use of minimum standard for nutrition, water provision, Enclosure/housing, space requirement, nesting etc.Maintenance of ambience of animals rooms for proper research output.Able to administer drugs through different routes of administration in routine use.
Higher order	10%	<ul style="list-style-type: none">To anaesthetized animals for retro-orbital blood collectionTo prepare container for blood collectionTo collect blood without haemolysisTo understand proper storage of blood during and after collection blood
Course contents/Curriculum – (Topics Covered/ Activities and hands on training etc.) <ul style="list-style-type: none">Discussion about humane use of animalsDiscussion about harm to animalsDiscussion of different types of small laboratory animals and their uses in the research.Discussion and hands on specific requirement for handling of small laboratory animals.Discussion and hands on minimum standard requirement for nutrition, water provision etcExplanation of requirement for blood collectionDiscussion and hands on of blood collection from tail vein		
Assessment procedure : The assessment is done on the following parameters. <ul style="list-style-type: none">MCQ Base Examination - 50 %Practical experiment - 25 %Viva Voce - 25 %		


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Brochure of Certificate / Add on Course

2019-2020

Name of Certificate/ Add on Course	Tablet Manufacturing (PH8/1)	
Name of Coordinator	Mrs.S.S.Malode (Assistant Professor)	
Duration of Activity	(13/1/20 – 22/2/20)	
Class	Final Year B.Pharmacy	
Contact Hours/ Schedule	36 Hrs.	
Aim/Objective : Towards the completion of this course, students should be able to understand the basics of tablet compression, consolidation, coating and hands on experience working on tablet compression machine as well as in vitro characterization of tablet in detail.		
Learning Outcomes: On successful completion of this course, a student will be expected to be able to :		
Lower order	30%	<ul style="list-style-type: none">Understand the physics of tablet compressionUnderstand the mechanism of tablet compressionLearn various methods of tablet compression, coating and excipient selection
Middle order	60%	<ul style="list-style-type: none">Operation and assembling of tablet compression machineSelection of tablet excipients on the basis of physical properties.
Higher order	10%	<ul style="list-style-type: none">To evaluate the prepared tablets for in vitro parametersTo overcome the tablet manufacturing defects
Course contents/Curriculum – (Topics Covered/ Activities and hands on training etc.) <ul style="list-style-type: none">Introduction to tablet, Definition, Types of Tablets, GranulationPre compression and post compression parametersGranulation by wet granulationGranulation by dry granulationStudy of tablet compression machineAssemble tablet machine for tablet preparationTablet compressionEvaluation of Prepared TabletsCalculation of dissolution studyIntroduction to Tablet Coating MachineCoating of tabletsEvaluation of coated tablet		
Assessment procedure : The assessment is done on the following parameters. <ul style="list-style-type: none">MCQ Base Examination - 50 %Practical experiment - 25 %Viva Voce - 25 %		


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Brochure of Certificate / Add on Course
2019-2020

Name of Certificate/ Add on Course	General Course on IPR (IP8/2)	
Name of Coordinator	Ms. H.B. Saindane (Assistant Professor)	
Duration of Activity	13/1/20 – 22/2/20	
Class	Final Year B.Pharm	
Contact Hours/ Schedule	36 Hrs	
Aim/Objective : The objective of this course is to provide in depth knowledge of the laws and process related to Trademarks, Copyright and other forms of IPs with focus on Patents, the Indian and International Patent filing procedure, drafting patent application and conducting prior art searches.		
Learning Outcomes: On successful completion of this course, a student will be expected to be able to :		
Lower order	30%	<ul style="list-style-type: none">To understand key basic concepts of IP like Patents, Copy right, Trademarks, Industrial design etc
Middle order	60%	<ul style="list-style-type: none">To understand the conventions and treaties for implementation of IP like Patent, Copy right, Trademarks, Industrial design etc.To understand and explore the uses of IPR in Pharmaceuticals.
Higher order	10%	<ul style="list-style-type: none">To use various IPRs and try to explore these for their commercial aspects.
Course contents/Curriculum – (Topics Covered/ Activities and hands on training etc.) <ul style="list-style-type: none">Introduction to all IPsInternational conventions and treatiesPatent filing applicationPatent compulsory LicensingPatent Case StudiesCopy rightsTrademarksIndustrial designsGeographical Indication		
Assessment procedure : The assessment is done on the following parameters. <ul style="list-style-type: none">MCQ Base Examination - 50 %Practical experiment - 25 %Viva Voce - 25 %		

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DETAILS OF CERTIFICATE /ADD-ON COURSES

ACADEMIC YEAR-2018-19

**(Summary of Add-on Courses, Notice
Brochure, List of Students Enrolled,
Attendance, Specimen Certificates)**



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**List of Add on / Certificate Programs
Academic Year – 2018-19**

Sr.No	Name of Add on / Certificate programs	Date & Duration (start date –End date)	No of student enrolled in the year	No.of times offered during the same year	Duration of course	Conducting Agency / Institution	Name of faculty coordinator & specialization
1	Communication Skills	14/1/19-23/2/19	58	One	36 Hrs	NGSPM's College of Pharmacy Anjaneri Nashik	Ms.P.T.Kare (Pharmacognosy)
2	Unit operations	14/1/19-23/2/19	62	One	36 Hrs	NGSPM's College of Pharmacy Anjaneri Nashik	Dr.V.D.Wagh (Pharmaceutics)
3	Hands on Training on Analytical instruments	9/7/18-18/8/18	27	One	36 Hrs	NGSPM's College of Pharmacy Anjaneri Nashik	Mr. S.S.Kakade (Pharm.chemistry)
4	Care, Handling and use of Small Laboratory Animal	9/7/18-18/8/18	26	One	36 Hrs	NGSPM's college of Pharmacy Anjaneri Nashik	Ms.Y.N.Nikumbh (Pharmacology)
5	Tablet manufacturing	14/1/19-23/2/19	29	One	36 Hrs	NGSPM's College of Pharmacy Anjaneri Nashik	Mrs.S.S.Malode (Pharmaceutics)
6	General Course on IPR	14/1/19-23/2/19	30	One	36 Hrs	NGSPM's College of Pharmacy Anjaneri Nashik	Ms.H.B.Saindane (Pharm.Chemistry)

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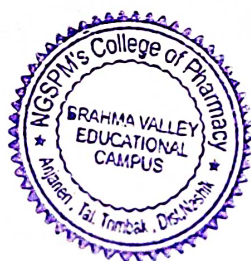
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Assessment Procedure of Add On / Certificate Programs
Academic Year -2018-2019

Sr.no	Name of Add on / Certificate programs	Assessment Procedures
1	Communication Skills	<ul style="list-style-type: none">• MCQ Based Exam• Practical Experiment• Viva Voce
2	Unit operations Care	
3	Hands on Training on analytical instruments Tablet manufacturing	
4	Care, Handling and use of small laboratory animals	<ul style="list-style-type: none">• MCQ Based Exam• Practical Experiment• Viva Voce
5	Tablet Manufacturing	
6	General Course on IPR	

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Brochure of Certificate / Add on Course 2018-2019

Name of Certificate/ Add on Course	Communication Skills (CS2/1)
Name of Coordinator	Ms.P.T.Kare (Assistant Professor)
Duration of Activity	(14/1/19- 23/2/19)
Class	First Year B.Pharm
Contact Hours/ Schedule	36 Hrs

Aim/Objective :

Towards the completion of this course, students should be able to learn how to communicate more effectively at work and achieve your goals. Communication skills is an essential and course designed to give both the tools you need to improve your communication skills and the most successful strategies for using them to your advantages.

Learning Outcomes:

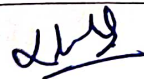
On successful completion of this course, a student will be expected to be able to :

Lower order	30%	▪ To understand the importance of effective communication, and how to harness the power of setting goals to improve your performance.
Middle order	60%	▪ To create memorable and persuasive messages, ask thoughtful questions, engage in active listening, and choose the right medium (face to face conversation, video conference ,phone cell, or email) for your messages.
Higher order	10%	▪ To communicate effectively using the right medium and use goal setting to increase your productivity and boost your performance ▪ To understand what others, want respond strategically to their wants, and needs ,craft convincing and clear messages and develop the critical communication skills you need to get ahead in business and in life

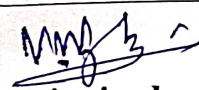
Course contents/Curriculum – (Topics Covered/ Activities and hands on training etc.)

- Communication Skills
 - What is personality, Greetings
 - What employers wants
 - Verbal and Non-Verbal
 - Stages & Barriers of Communication
 - Do's & Don'ts of positive Impression
 - Gesture & Posture, Way of Shaking Hand & Body Language
- Basic English Usage
 - Basic parts of Speech & Tenses
 - Construction of sentences, Uses of Articles
 - How to construct short meaningful sentences
- Written Communication
 - Different Types of Written Communication
 - Structure of Business Letter

▪ MCQ Base Examination - 50 %	▪ Practical experiment - 25 %	▪ Viva Voce - 25 %
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Brochure of Certificate / Add on Course

2018-2019

Name of Certificate/ Add on Course		Unit Operation (PCG4/1)
Name of Coordinator		Ms.P.V.Alai
Duration of Activity		(14/1/19- 23/2/19)
Class		Second Year B.Pharm
Contact Hours/ Schedule		36 Hrs
Aim/Objective : Towards the completion of this course, students should be able to understand the theoretical basis of unit operation and develop skill set in unit operations		
Learning Outcomes: On successful completion of this course, a student will be expected to be able to :		
Lower order	30%	<ul style="list-style-type: none">Describe various types unit operations used in laboratories.Understand the theoretical basis of unit operationSkill set required for setup of assembly for unit operation
Middle order	60%	<ul style="list-style-type: none">Demonstrate the skill sets for various unit operationDesign experimental methodologies.
Higher order	10%	<ul style="list-style-type: none">Explain the basic operations involved in the synthesis, purification of chemicalApply the skill set for various unit operations.Decide the most suitable unit operation for given process.Work independently and become an effective team player
Course contents/Curriculum – (Topics Covered/ Activities and hands on training etc.) <ul style="list-style-type: none">DistillationFractional DistillationVacuum DistillationUse of Rotary Vacuum evaporatorSteam DistillationColumn chromatographyUse of overhead stirrer for various reactions.Liquid-Liquid extractionMethods of generating and drying various laboratory gases.		
Assessment procedure : The assessment is done on the following parameters. <ul style="list-style-type: none">MCQ Base Examination - 50 %Practical experiment - 25 %Viva Voce - 25 %		


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Brochure of Certificate / Add on Course
2018 -2019

Name of Certificate/ Add on Course	Hands on training on Analytical Instruments (PC5/1)	
Name of Coordinator	Ms.S.S.Kakade (Assistant Professor)	
Duration of Activity	(9/7/18- 18/8/18)	
Class	Third Year B.Pharm	
Contact Hours/ Schedule	36 Hrs.	
Aim/Objective : Towards the completion of this course, students should be able to understand the theoretical basis and operation of modern instruments used in chemical analysis and apply them in the analysis of real samples.		
Learning Outcomes: On successful completion of this course, a student will be expected to be able to :		
Lower order	30%	<ul style="list-style-type: none">Describe various types of instrumental techniques used in chemistryUnderstand the theoretical basis of chemical instrumentsIdentify the components and uses of various parts of chemical instruments.
Middle order	60%	<ul style="list-style-type: none">Apply the use of instruments in chemical analysisDesign experimental methodologies using proper instrumentsCollect, analyse and manage experimental data using chemical instruments.
Higher order	10%	<ul style="list-style-type: none">To evaluate & statistically analyse the data gathered using various instrumental techniquesInterpret the results of chemical analysisProduce scientific reports based on laboratory dataWork independently and become an effective team player
Course contents/Curriculum – (Topics Covered/ Activities and hands on training etc.) <ul style="list-style-type: none">Overview of Instrumental Analysis and Measurements<ul style="list-style-type: none">Types of instruments for analysisInstrumental componentsCalibrationSignal to noise enhancementUV-Visible absorption spectrometryInfrared spectrometry (FTIR)Chromatographic methods (HPLC)Differential Scanning Calorimetry (DSC)		
Assessment procedure : The assessment is done on the following parameters. <ul style="list-style-type: none">MCQ Base Examination - 50 %Practical experiment - 25 %Viva Voce - 25 %		


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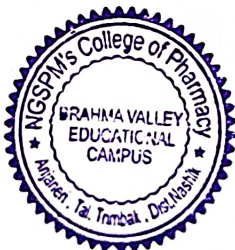
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Brochure of Certificate / Add on Course

2018-2019

Name of Certificate/ Add on Course	Care, Handling and use of Small Laboratory Animals (PL5/2)	
Name of Coordinator	Mrs. Y.N.Nikumabh (Assistant Professor)	
Duration of Activity	(9/7/18- 18/8/18)	
Class	T.Y.B.Pharmacy	
Contact Hours/ Schedule	36 Hrs.	
Aim/Objective : To inculcate compassionate care, efficient handling & proficient use of the small laboratory animals among learner.		
Learning Outcomes: On successful completion of this course, a student will be expected to be able to :		
Lower order	30%	<ul style="list-style-type: none">Describe human care of animalsUnderstand harm to animalsIdentify different types of small laboratory animals and their uses in the research.
Middle order	60%	<ul style="list-style-type: none">Explain specific & minimum standard for care/handling of rat, mice and guinea pigDemonstrate use of minimum standard for nutrition, water provision, Enclosure/housing, space requirement, nesting etc.Maintenance of ambience of animals rooms for proper research output.Able to administer drugs through different routes of administration in routine use.
Higher order	10%	<ul style="list-style-type: none">To anaesthetized animals for retro-orbital blood collectionTo prepare container for blood collectionTo collect blood without haemolysisTo understand proper storage of blood during and after collection blood
Course contents/Curriculum – (Topics Covered/ Activities and hands on training etc.) <ul style="list-style-type: none">Discussion about humane use of animalsDiscussion about harm to animalsDiscussion of different types of small laboratory animals and their uses in the research.Discussion and hands on specific requirement for handling of small laboratory animals.Discussion and hands on minimum standard requirement for nutrition, water provision etcExplanation of requirement for blood collectionDiscussion and hands on of blood collection from tail vein		
Assessment procedure : The assessment is done on the following parameters. <ul style="list-style-type: none">MCQ Base Examination - 50 %Practical experiment - 25 %Viva Voce - 25 %		

Y.N. Nikumbh
In-charge



Y.N. Nikumbh
Principal
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Brahma Valley Educational Campus
Trimbak Road, Anjaneri, Nashik-422 213



NASHIK GRAMIN SHIKSHAN PRASARAK MANDAL'S

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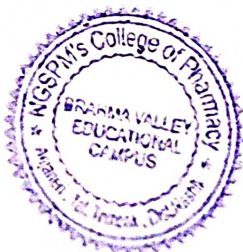
Phone No. : (02594) 220146, 220147


Established in 2006-07

Brochure of Certificate / Add on Course
2018-2019

Name of Certificate/ Add on Course	Tablet Manufacturing (PH8/1)	
Name of Coordinator	Mrs.S.S.Malode (Assistant Professor)	
Duration of Activity	(14/1/19- 23/2/19)	
Class	Final Year B.Pharmacy	
Contact Hours/ Schedule	36 Hrs.	
Aim/Objective : Towards the completion of this course, students should be able to understand the basics of tablet compression, consolidation, coating and hands on experience working on tablet compression machine as well as in vitro characterization of tablet in detail.		
Learning Outcomes: On successful completion of this course, a student will be expected to be able to :		
Lower order	30%	<ul style="list-style-type: none">Understand the physics of tablet compressionUnderstand the mechanism of tablet compressionLearn various methods of tablet compression, coating and excipient selection
Middle order	60%	<ul style="list-style-type: none">Operation and assembling of tablet compression machineSelection of tablet excipients on the basis of physical properties.
Higher order	10%	<ul style="list-style-type: none">To evaluate the prepared tablets for in vitro parametersTo overcome the tablet manufacturing defects
Course contents/Curriculum – (Topics Covered/ Activities and hands on training etc.) <ul style="list-style-type: none">Introduction to tablet, Definition, Types of Tablets, GranulationPre compression and post compression parametersGranulation by wet granulationGranulation by dry granulationStudy of tablet compression machineAssemble tablet machine for tablet preparationTablet compressionEvaluation of Prepared TabletsCalculation of dissolution studyIntroduction to Tablet Coating MachineCoating of tabletsEvaluation of coated tablet		
Assessment procedure : The assessment is done on the following parameters. <ul style="list-style-type: none">MCQ Base Examination - 50 %Practical experiment - 25 %Viva Voce - 25 %		


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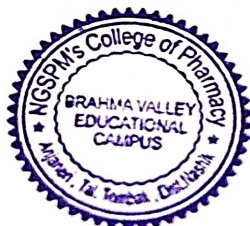
Established in 2006-07

Brochure of Certificate / Add on Course
2018-2019

Name of Certificate/ Add on Course	General Course on IPR (IP8/2)	
Name of Coordinator	Miss.H.B.Saindane (Assistant Professor)	
Duration of Activity	(14/1/19- 23/2/19)	
Class	Final Year B.Pharm	
Contact Hours/ Schedule	36 Hrs	
Aim/Objective : The objective of this course is to provide in depth knowledge of the laws and process related to Trademarks, Copyright and other forms of IPs with focus on Patents, the Indian and International Patent filling procedure, drafting patent application and conducting prior art searches.		
Learning Outcomes: On successful completion of this course, a student will be expected to be able to :		
Lower order	30%	▪ To understand key basic concepts of IP like Patents, Copy right, Trademarks, Industrial design etc
Middle order	60%	▪ To understand the conventions and treaties for implementation of IP like Patent, Copy right, Trademarks, Industrial design etc. ▪ To understand and explore the uses of IPR in Pharmaceuticals.
Higher order	10%	▪ To use various IPRs and try to explore these for their commercial aspects.
Course contents/Curriculum – (Topics Covered/ Activities and hands on training etc.)		
▪ Introduction to all IPs ▪ International conventions and treaties ▪ Patent filling application ▪ Patent compulsory Licensing ▪ Patent Case Studies ▪ Copy rights ▪ Trademarks ▪ Industrial designs ▪ Geographical Indication		
Assessment procedure : The assessment is done on the following parameters.		
▪ MCQ Base Examination - 50 % ▪ Practical experiment - 25 % ▪ Viva Voce - 25 %		

A. Saindane

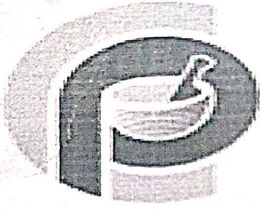
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V. Saindane

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DETAILS OF CERTIFICATE /ADD-ON COURSES

ACADEMIC YEAR-2017-18

**(Summary of Add-on Courses, Notice
Brochure, List of Students Enrolled,
Attendance, Specimen Certificates)**

List of students Enrolled for Modules / Add-On Course-



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List of Add on / Certificate Programs
Academic Year – 2017-18

Sr.No	Name of Add on / Certificate programs	Date & Duration (start date –End date)	No of student enrolled in the year	No.of times offered during the same year	Duration of course	Conducting Agency / Institution	Name of faculty coordinator & specialization
1	Unit operations	8/1/18-17/2/18	60	One	36 Hrs	NGSPM's College of Pharmacy Anjaneri Nashik	Ms.P.V.Alai (Pharmaceutics)
2	Hands on Training on analytical instruments	10/7/17-19/8/17	30	One	36 Hrs	NGSPM's College of Pharmacy Anjaneri Nashik	Ms.S.S.Kakade (Pharm chemistry)
3	Care, Handling and use of small laboratory animals	10/7/17-19/8/17	28	One	36 Hrs	NGSPM's College of Pharmacy Anjaneri Nashik	Mrs..Y.N.Nikumb (Pharmacology)
4	Tablet manufacturing	8/1/18-17/2/18	20	One	36 Hrs	NGSPM's College of Pharmacy Anjaneri Nashik	Mrs.S.S.Malode (Pharm.chemistry)
5	General Course on IPR	8/1/18-17/2/18	20	One	36 Hrs	NGSPM's College of Pharmacy Anjaneri Nashik	Ms.H.B.Saindane (Pharm.chemistry)


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**Assessment Procedure of Add On / Certificate Programs
Academic Year -2017-2018**

Sr.no	Name of Add on / Certificate programs	Assessment Procedures
1	Unit Operation	<ul style="list-style-type: none">• MCQ Based Exam• Practical Experiment• Viva Voce
2	Hands on Training on analytical instruments	
3	Care, Handling and use of small laboratory animals	
4	Tablet manufacturing	
5	General Course on IPR	<ul style="list-style-type: none">• MCQ Based Exam• Practical Experiment• Viva Voce


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Brochure of Certificate / Add on Course
2017-2018

Name of Certificate/ Add on Course		Unit Operation (PCG4/1)
Name of Coordinator		Ms.P.V.Alai
Duration of Activity		(8/1/18- 17/2/18)
Class		Second Year B.Pharm
Contact Hours/ Schedule		36 Hrs
Aim/Objective : Towards the completion of this course, students should be able to understand the theoretical basis of unit operation and develop skill set in unit operations		
Learning Outcomes: On successful completion of this course, a student will be expected to be able to :		
Lower order	30%	<ul style="list-style-type: none">Describe various types unit operations used in laboratories.Understand the theoretical basis of unit operationSkill set required for setup of assembly for unit operation
Middle order	60%	<ul style="list-style-type: none">Demonstrate the skill sets for various unit operationDesign experimental methodologies.
Higher order	10%	<ul style="list-style-type: none">Explain the basic operations involved in the synthesis, purification of chemicalApply the skill set for various unit operations.Decide the most suitable unit operation for given process.Work independently and become an effective team player
Course contents/Curriculum – (Topics Covered/ Activities and hands on training etc.) <ul style="list-style-type: none">DistillationFractional DistillationVacuum DistillationUse of Rotary Vacuum evaporatorSteam DistillationColumn chromatographyUse of overhead stirrer for various reactions.Liquid-Liquid extractionMethods of generating and drying various laboratory gases.		
Assessment procedure : The assessment is done on the following parameters. <ul style="list-style-type: none">MCQ Base Examination - 50 %Practical experiment - 25 %Viva Voce - 25 %		

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Brochure of Certificate / Add on Course 2017 -2018

Name of Certificate/ Add on Course		Hands on training on Analytical Instruments (PC5/1)
Name of Coordinator		Ms.S.S.Kakade (Assistant Professor)
Duration of Activity		(10/7/17- 19/8/17)
Class		Third Year B.Pharm
Contact Hours/ Schedule		36 Hrs.
Aim/Objective : Towards the completion of this course, students should be able to understand the theoretical basis and operation of modern instruments used in chemical analysis and apply them in the analysis of real samples.		
Learning Outcomes: On successful completion of this course, a student will be expected to be able to :		
Lower order	30%	<ul style="list-style-type: none">Describe various types of instrumental techniques used in chemistryUnderstand the theoretical basis of chemical instrumentsIdentify the components and uses of various parts of chemical instruments.
Middle order	60%	<ul style="list-style-type: none">Apply the use of instruments in chemical analysisDesign experimental methodologies using proper instrumentsCollect, analyse and manage experimental data using chemical instruments.
Higher order	10%	<ul style="list-style-type: none">To evaluate & statistically analyse the data gathered using various instrumental techniquesInterpret the results of chemical analysisProduce scientific reports based on laboratory dataWork independently and become an effective team player
Course contents/Curriculum – (Topics Covered/ Activities and hands on training etc.) <ul style="list-style-type: none">Overview of Instrumental Analysis and Measurements<ul style="list-style-type: none">Types of instruments for analysisInstrumental componentsCalibrationSignal to noise enhancementUV-Visible absorption spectrometryInfrared spectrometry (FTIR)Chromatographic methods (HPLC)Differential Scanning Calorimetry (DSC)		
Assessment procedure : The assessment is done on the following parameters. <ul style="list-style-type: none">MCQ Base Examination - 50 %Practical experiment - 25 %Viva Voce - 25 %		


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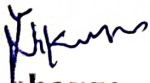
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Brochure of Certificate / Add on Course
2017-2018

Name of Certificate/ Add on Course	Care, Handling and use of Small Laboratory Animals (PL5/2)	
Name of Coordinator	Mrs. Y.N.Nikumbh (Assistant Professor)	
Duration of Activity	(10/7/17 – 19/8/17)	
Class	T.Y.B.Pharmacy	
Contact Hours/ Schedule	36 Hrs.	
Aim/Objective : To inculcate compassionate care, efficient handling & proficient use of the small laboratory animals among learner.		
Learning Outcomes: On successful completion of this course, a student will be expected to be able to :		
Lower order	30%	<ul style="list-style-type: none">Describe human care of animalsUnderstand harm to animalsIdentify different types of small laboratory animals and their uses in the research.
Middle order	60%	<ul style="list-style-type: none">Explain specific & minimum standard for care/handling of rat, mice and guinea pigDemonstrate use of minimum standard for nutrition, water provision, Enclosure/housing, space requirement ,nesting etc.Maintenance of ambience of animals rooms for proper research output.Able to administer drugs through different routes of administration in routine use.
Higher order	10%	<ul style="list-style-type: none">To anaesthetized animals for retro-orbital blood collectionTo prepare container for blood collectionTo collect blood without haemolysisTo understand proper storage of blood during and after collection blood
Course contents/Curriculum – (Topics Covered/ Activities and hands on training etc.) <ul style="list-style-type: none">Discussion about humane use of animalsDiscussion about harm to animalsDiscussion of different types of small laboratory animals and their uses in the research.Discussion and hands on specific requirement for handling of small laboratory animals.Discussion and hands on minimum standard requirement for nutrition, water provision etcExplanation of requirement for blood collectionDiscussion and hands on of blood collection from tail vein		
Assessment procedure : The assessment is done on the following parameters. <ul style="list-style-type: none">MCQ Base Examination - 50 %Practical experiment - 25 %Viva Voce - 25 %		


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**Brochure of Certificate / Add on Course**
2017-2018

Name of Certificate/ Add on Course		Tablet Manufacturing (PH8/1)
Name of Coordinator		Mrs.S.S.Malode (Assistant Professor)
Duration of Activity		(8/1/18- 17/2/18)
Class		Final Year B.Pharmacy
Contact Hours/ Schedule		36 Hrs.
Aim/Objective : Towards the completion of this course, students should be able to understand the basics of tablet compression, consolidation, coating and hands on experience working on tablet compression machine as well as in vitro characterization of tablet in detail.		
Learning Outcomes: On successful completion of this course, a student will be expected to be able to :		
Lower order	30%	<ul style="list-style-type: none">▪ Understand the physics of tablet compression▪ Understand the mechanism of tablet compression▪ Learn various methods of tablet compression, coating and excipient selection
Middle order	60%	<ul style="list-style-type: none">▪ Operation and assembling of tablet compression machine▪ Selection of tablet excipients on the basis of physical properties.
Higher order	10%	<ul style="list-style-type: none">▪ To evaluate the prepared tablets for in vitro parameters▪ To overcome the tablet manufacturing defects
Course contents/Curriculum – (Topics Covered/ Activities and hands on training etc.) <ul style="list-style-type: none">▪ Introduction to tablet, Definition, Types of Tablets, Granulation▪ Pre compression and post compression parameters▪ Granulation by wet granulation▪ Granulation by dry granulation▪ Study of tablet compression machine▪ Assemble tablet machine for tablet preparation▪ Tablet compression▪ Evaluation of Prepared Tablets▪ Calculation of dissolution study▪ Introduction to Tablet Coating Machine▪ Coating of tablets▪ Evaluation of coated tablet		
Assessment procedure : The assessment is done on the following parameters. <ul style="list-style-type: none">▪ MCQ Base Examination - 50 %▪ Practical experiment - 25 %▪ Viva Voce - 25 %		


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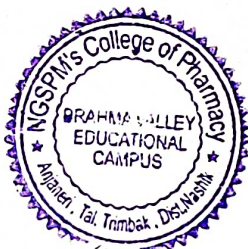
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Brochure of Certificate / Add on Course 2017-2018

Name of Certificate/ Add on Course	General Course on IPR (IP8/2)	
Name of Coordinator	Miss.H.B.Saindane (Assistant Professor)	
Duration of Activity	(8/1/18- 17/2/18)	
Class	Final Year B.Pharm	
Contact Hours/ Schedule	36 Hrs	
Aim/Objective : The objective of this course is to provide in depth knowledge of the laws and process related to Trademarks, Copyright and other forms of IPs with focus on Patents, the Indian and International Patent filling procedure, drafting patent application and conducting prior art searches.		
Learning Outcomes: On successful completion of this course, a student will be expected to be able to :		
Lower order	30%	▪ To understand key basic concepts of IP like Patents, Copy right, Trademarks, Industrial design etc
Middle order	60%	▪ To understand the conventions and treaties for implementation of IP like Patent, Copy right, Trademarks, Industrial design etc. ▪ To understand and explore the uses of IPR in Pharmaceuticals.
Higher order	10%	▪ To use various IPRs and try to explore these for their commercial aspects.
Course contents/Curriculum – (Topics Covered/ Activities and hands on training etc.)		
<ul style="list-style-type: none">▪ Introduction to all IPs▪ International conventions and treaties▪ Patent filling application▪ Patent compulsory Licensing▪ Patent Case Studies▪ Copy rights▪ Trademarks▪ Industrial designs▪ Geographical Indication		
Assessment procedure : The assessment is done on the following parameters.		
<ul style="list-style-type: none">▪ MCQ Base Examination - 50 %▪ Practical experiment - 25 %▪ Viva Voce - 25 %		

Hsni
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