



VISHNU
UNIVERSAL LEARNING

VISHNU INSTITUTE OF PHARMACEUTICAL EDUCATION AND RESEARCH
Sangareddy-Narsapur Rd, Narsapur, Telangana-502313
Approved by PCI, AICTE and Affiliated to JNTUH Email: viper@viper.ac.in Website:
viper.ac.in Phone: 08458-222002

CIRCULAR

Date: 10/10/22

I hope this message finds you well. We are excited to announce the availability of certificate courses designed specifically for B.Pharm final year and M.Pharm students at our institution. Interested students are advised to providing their names to the course coordinator at the earliest.

S.No	Year	Name of the course	Duration	Dates
01	IV-I & PG (20DH)	Pharmaceutical Regulatory Affairs - Industry Perspectives	10Days	21.11.22 to 01.12.22
02	IV-II & PG (19DH)	Clinical Data Management - Industry Perspectives	7Days	03.01.23 to 10.01.23
03	III-I & III-II	Chemical Engineering Interdisciplinary course	90 Days	08.03.22 to 10.05.22
04	III-I & III-II	Biomedical Engineering interdisciplinary course	90 Days	08.03.22 to 10.05.22
05	IV-II & PG (19DH)	Medical Coding	14Days	09.03.23 to 24.03.23
06	II/I & PG (22DH)	Applications of Artificial Intelligence in Drug Discovery and Development	14Days	06.11.23 to 21.11.23

S.No	Name of the course	Name of the course coordinator	Contact Number	Signature
01	Pharmaceutical Regulatory Affairs - Industry Perspectives	Dr. Dr.S.Dineshmohan	8008777734	
02	Clinical Data Management - Industry Perspectives	Dr.K.Ramanjaneyulu	9494604750	
03	Chemical Engineering Interdisciplinary course	Mrs. P. Durga Bhavani	9398963624	
04	Biomedical Engineering interdisciplinary course	Mrs. E.Rajitha	9705174631	
05	Medical Coding	Mr.G. Suryam	9121711908	
06	Applications of Artificial Intelligence in Drug Discovery and Development	Dr.C.Soujanya	8121785912	

Head-IQAC



Principal
PRINCIPAL

Vishnu Institute of Pharmaceutical Education & Research
Narsapur, Medak Dist.-502 313, TS.



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CIRCULAR

Date: 15.11.22

Our Institute is planned to conduct certificate course on "**Pharmaceutical Regulatory Affairs - Industry Perspectives**" for the benefit of IVth Year B.Pharm and IInd Year M.Pharm students. This course is scheduled from 21.11.22 to 01.12.22 for 40Hrs duration for both theory and case studies. The timings are 1:30PM to 5:30PM.

All registered students must attend all classes without fail. Dr.S.Dineshmohan, Assistant Professor in the Department of Pharmaceutics, has been designated as the course coordinator.

Head -IQAC



Copy to:

All HOD's
Course Coordinator

Principal

PRINCIPAL

**Vishnu Institute of Pharmaceutical
Education & Research
Narsapur, Medak Dist.-502 313, TS.**

Course overview

This course covers the fundamental aspects and practical knowledge about Regulatory Affairs (RA) in detail, including the academic & industry prevalence and existence, Scope and career opportunities and the importance of RA in pharmaceutical industry. The present modules deal with Global Submissions and Product Life Cycle Management. The content and methodology of our courses are structured to complement self-directed learning. As such, participants will be able to review course material at their own pace, however, should complete the course within the allocated time provided for the course.

Course Objective

- To promote high standards in pharmaceutical product production, quality assurance and preparation of compound medicinal prescriptions, pharmaceutical and other appropriate products.

What will you learn?

- Information about Biological and Pharmaceutical drugs and guidance regarding rules and regulation of drugs,
- latest good manufacturing practices, science and Technology updates and their regulatory aspects,
- post-marketing surveillance of the product to compile the documentation of pharma industry.

Who can attend

- Pharmaceutical Regulatory Affairs - Industry Perspectives course is for all Final year and M.Pharm students.

Area of job opportunities

- Jr. Executive RA in Pharma & Veterinary companies

Pharmaceutical Regulatory Affairs - Industry Perspectives



Duration: 21.11.22 to 01.12.22

Instructor

Mrs. Nikitha Gaiki
Samarth Institute of Regulatory Affairs
2-17-124/3/A, Shirdi Sai Nagar,
Uppal, Hyderabad, Telangana-
500039





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Curriculum design

Module 1: Overview of pharmaceutical regulatory affairs Historical development of regulatory frameworks Role and importance of regulatory affairs in the pharmaceutical industry Regulatory agencies and their functions.

Module 2: Overview of drug discovery and development, Preclinical studies and their regulatory considerations, Clinical trial phases and regulatory requirements, Investigational New Drug (IND) application process.

Module 3: Regulatory Submissions New Drug Application (NDA) and Biologics License Application (BLA), Abbreviated New Drug Application (ANDA) for generic drugs, Regulatory documentation and submission requirements, Electronic submission platforms.

Module 4: Good Manufacturing Practice (GMP) and Quality Assurance Principles of GMP in pharmaceutical manufacturing Quality systems and quality assurance in drug production Regulatory inspections and compliance

Module 5: Post-Marketing Surveillance Pharmacovigilance and adverse event reporting Post-marketing commitments and studies Labelling changes and updates

Module 6: Global Regulatory Perspectives International regulatory harmonization Comparative regulatory systems (e.g., FDA, EMA, PMDA) Challenges and opportunities in global regulatory affairs

Module 7: Regulatory Compliance and Inspections Regulatory compliance strategies Handling regulatory inspections Corrective and preventive actions (CAPA)

Module 8: Regulatory Affairs in Specific Regions Regulatory considerations in specific geographical regions (e.g., US, EU, Asia) Regional variations in regulatory requirements

Module 9: Emerging Trends in Regulatory Affairs Advanced therapies and personalized medicine Digital health and regulatory challenges Regulatory implications of new technologies





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Attendance

Name of the course : Pharmaceutical Regulatory Affairs - Industry Perspectives

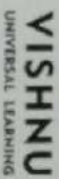
2022

H.NO	Name of the Student	21/11	22/11	23/11	24/11	25/11	26/11	28/11	29/11	30/11	01/12
19DH1R0010	B.KARTHIK REDDY	Karthik	Karthik	Karthik	Karthik	Karthik	Karthik	Karthik	Karthik	Karthik	Karthik
19DH1R0015	VINJAMURI BHAVYA SRI	Bhav	Bhav	Bhav	Bhav	Bhav	Bhav	Bhav	Bhav	Bhav	Bhav
19DH1R0028	HADNOOR MAHESH	Mahesh	Mahesh	Mahesh	Mahesh	Mahesh	Mahesh	Mahesh	Mahesh	Mahesh	Mahesh
19DH1R0060	NISHANTH BEJUGAM	Nishanth	Nishanth	Nishanth	Nishanth	Nishanth	Nishanth	Nishanth	Nishanth	Nishanth	Nishanth
19DH1R0061	NOOR SULTANA	Noor	Noor	Noor	Noor	Noor	Noor	Noor	Noor	Noor	Noor
19DH1R0083	R. AISHWARYA	Aishwarya	Aishwarya	Aishwarya	Aishwarya	Aishwarya	Aishwarya	Aishwarya	Aishwarya	Aishwarya	Aishwarya
19DH1R0084	SANGOJU AKSHITHA	Akshitha	Akshitha	Akshitha	Akshitha	Akshitha	Akshitha	Akshitha	Akshitha	Akshitha	Akshitha
19DH1R0087	SEETHA MAHITHAVANI	Seetha	Seetha	Seetha	Seetha	Seetha	Seetha	Seetha	Seetha	Seetha	Seetha
19DH1R0088	SHAIK MUSTAFA YASEEN	Shai	Shai	Shai	Shai	Shai	Shai	Shai	Shai	Shai	Shai
19DH1R0089	SHAKERA TAUQUEER	Shaker	Shaker	Shaker	Shaker	Shaker	Shaker	Shaker	Shaker	Shaker	Shaker
19DH1R0096	TANNIRU THIRUMALA	Tanniru	Tanniru	Tanniru	Tanniru	Tanniru	Tanniru	Tanniru	Tanniru	Tanniru	Tanniru
20DH1S0304	HARITHA NAIDU	Haritha	Haritha	Haritha	Haritha	Haritha	Haritha	Haritha	Haritha	Haritha	Haritha
20DH1S0308	THULYA SUHITHA	Suhitha	Suhitha	Suhitha	Suhitha	Suhitha	Suhitha	Suhitha	Suhitha	Suhitha	Suhitha
20DH1S1201	BEGARI SHYAMALA	Shyamala	Shyamala	Shyamala	Shyamala	Shyamala	Shyamala	Shyamala	Shyamala	Shyamala	Shyamala
20DH1S1213	DAROJU SAHATHI	Sahathi	Sahathi	Sahathi	Sahathi	Sahathi	Sahathi	Sahathi	Sahathi	Sahathi	Sahathi

[Signature]
Course coordinator

[Signature]
Principal





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This is to certify that Mr/Ms. NOOR SULTANA of _____

VIPER, in association with, IPA Narsapur Branch, APTI, PTT.

**Samrat Institute of Regulatory Affairs &
IPR**

Dr. A. Ramesh
Principal VIPER.



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Certificate of Participation

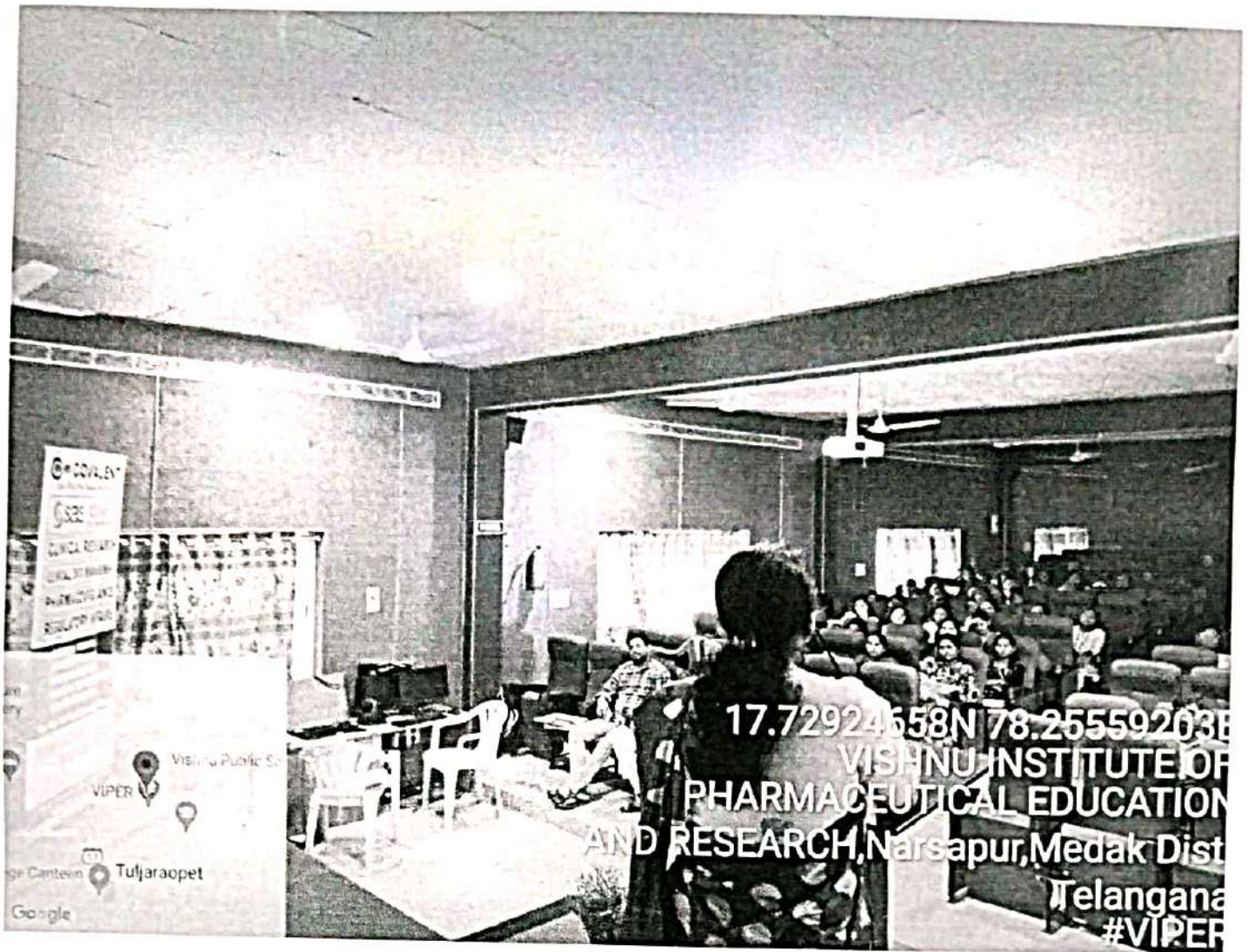
This is to certify that Mr/Ms. R. AISHWARYA of

has successfully completed three days hands on Training on “Pharmaceutical Regulatory Affairs - Industry Perspectives” conducted from 6/11/2023 to 08/11/2023, organized by VIPER, in association with, IPA Narsapur Branch, APTI, PTT.

N. Gaiki

Mrs. Nikitha Gaiki
Samrat Institute of Regulatory Affairs &
IPR

Dr. A. Ramesh
Principal VIPER.



G. Subbarao





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Date: 01.12.22

REPORT

Name of the program: Pharmaceutical Regulatory Affairs - Industry Perspectives

Duration: 10 Day

Resource person: Mrs. Nikitha Gaiki

Vishnu Institute of Pharmaceutical Education & Research, Narsapur, organized one month certificate course on "Pharmaceutical Regulatory Affairs - Industry Perspectives" from 21.11.22 to 01.12.22. Mrs. Nikitha Gaiki, Samarth Institute of Regulatory Affairs, Hyderabad was the instrumental of this program. A total of 15 students participated in this program. After completing this program, students were able to comprehend the objectives and learning outcomes indicated below.

Objectives

To promote high standards in pharmaceutical product production, quality assurance and preparation of compound medicinal prescriptions, pharmaceutical and other appropriate products.

Outcome

Students will be able to Know

- The key regulatory and compliance elements with respect to Good Manufacturing Practices,
- Good Laboratory Practices,
- Good Automated Laboratory Practices and Good Documentation Practices.
- Prepare and implement the check lists and SOPs for various Good Regulatory Practices. Implement Good Regulatory Practices in the Healthcare and related Industries.
- Prepare for the readiness and conduct of audits and inspections.

All the students, found the training to be extremely beneficial, and they all gave favorable feedback. Finally, the Coordinator, Dr.S.Dineshmohan thanked the resource person and congratulated all participants for making the program a success.


Coordinator





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CIRCULAR

Date: 28.12.22

Our Institute is planned to conduct certificate course on "**Clinical Data Management - Industry Perspectives**" for the benefit of IVth Year B.Pharm and IInd Year M.Pharm students. This course is scheduled from 03.01.23 to 10.01.23 one week duration for both theory and case studies. The timings are 1:30PM to 5:30PM.

All registered students must attend all classes without fail. Dr.K.Ramanjaneyulu Associate Professor in the Department of Pharmaceutical Analysis & Chemistry, has been designated as the course coordinator.

Head -IQAC



Principal

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Copy to:

**All HOD's
Course Coordinator**

Course overview

This course is designed to provide students with an overview of the clinical data management process, including the elements involved in CRF designing, Programming, data collection and management, data quality assurance and assurance processes. Students will gain an appreciation for how clinical data are collected and managed throughout the healthcare system. They will learn about how to identify sources of error in clinical data records, perform analysis on their own health information, understand best practices for data analysis and interpretation. The field of clinical data management (CDM) has come about due to the requirement from both relating to medicinal drugs/device industry and the regulatory authorities for the development of medicinal products continues to accelerate, regulatory entities by requiring quality-assurance standards to be met in collecting the data used in the drug/device evaluation process.

The content and methodology of our courses are structured to complement self-directed learning. As such, participants will be able to review course material at their own pace, however, should complete the course within the allocated time provided for the course.

Course Objective

- To provide high-quality data by keeping the number of errors and missing data as low as possible and gather maximum data for analysis.

What will you learn ?

- The overall purpose of this course is to make you familiarize with CDM& provide an Understand CDM activities
- Overview of the tools & standards adopted as well as the roles & responsibilities
- Describe CDM process & its significance
- Get familiarize with variable roles in CDM

Who can attend ?

- Clinical Data Management - Industry Perspectives course is for all Final year and M.Pharm students.

Area of job opportunities

- Clinical Trial Careers. Clinical Research Coordinator. Clinical Research Associate. Clinical Trial Manager. Clinical Data Manager. Clinical Biostatistician. Clinical Quality Auditor. Regulatory Affairs Manager.

Duration: 01.05.23 to 08.05.23

CLINICAL DATA MANAGEMENT - INDUSTRY PERSPECTIVES



Instructor

Mrs. Supraja Raghunathan
Covalent Technologies - Kukatpally,
Hyderabad, Telangana 500072



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Curriculum design

Module 1: Introduction to Clinical Data Management Overview of Clinical Data Management Definition and importance in clinical research Evolution of CDM , Regulatory Environment FDA and other regulatory guidelines Good Clinical Data Management Practices (GCDMP).

Module 2: Clinical Trials and Study Design Clinical Trial Phases Introduction to Phase I-IV trials, Differences in data management across phases, Study Design and Protocol, Elements of a clinical study protocol, Importance of protocol adherence.

Module 3: Data Collection and Entry, Case Report Form (CRF) Design, CRF development and customization, Electronic CRFs vs. Paper CRFs, Data Entry and Validation, Data entry processes and best practices, Data validation techniques.

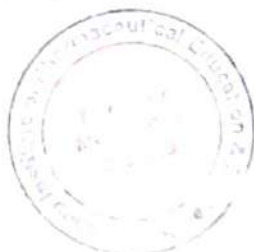
Module 4: Data Standards and Coding, Standardization in Clinical Data, CDISC (Clinical Data Interchange Standards Consortium), SDTM (Study Data Tabulation Model) and ADaM (Analysis Data Model), Medical Coding, Introduction to MedDRA and WHO Drug Coding
Importance of accurate coding in clinical data.

Module 5: Data Cleaning and Quality Assurance, Data Cleaning Procedures, Identifying and resolving data discrepancies, Query management, Quality Assurance in CDM, Audits and inspections, Continuous improvement strategies

Module 6: Database Management Systems, Introduction to EDC (Electronic Data Capture), Benefits and challenges of EDC, Popular EDC systems in the industry, Database Setup and Maintenance, Database design and configuration, Data migration and archiving

Module 7: Data Privacy and Security, Patient Privacy and Confidentiality, Compliance with HIPAA and other privacy regulations, Data security measures

Module 8: Data Analysis and Reporting, Data Analysis Techniques, Descriptive statistics and inferential statistics, Interim analysis and data monitoring, Clinical Study Reporting, Creation of clinical study reports, Submission to regulatory authorities





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Attendance

Name of the course : Clinical Data Management - Industry Perspectives 2023

H.No	Name of the Student	03/01	04/01	05/01	06/01	07/01	09/01	10/01
19DH1R0006	AYESHA PARVEEN	Parveen	Parveen	Parveen	Parveen	Parveen	Parveen	Parveen
19DH1R0008	BADHE NAMRATHA	Q	Q	Q	Q	Q	Q	Q
19DH1R0021	ETTADI RUPIKA REDDY	Rupika	Rupika	Rupika	Rupika	Rupika	Rupika	Rupika
19DH1R0024	SANJU BHARGAVI	Sanju	Sanju	Sanju	Sanju	Sanju	Sanju	Sanju
19DH1R0027	GONE SHIVA PRASAD	Gone	Gone	Gone	Gone	Gone	Gone	Gone
19DH1R0033	KANCHARLA NITHYA SRI	Nithya	Nithya	Nithya	Nithya	Nithya	Nithya	Nithya
19DH1R0042	LOURA VIKONA J	Laura	Laura	Laura	Laura	Laura	Laura	Laura
19DH1R0058	NEHA	Neha	Neha	Neha	Neha	Neha	Neha	Neha
19DH1R0070	DEEKSHITHA REDDY	Deeksha	Deeksha	Deeksha	Deeksha	Deeksha	Deeksha	Deeksha
19DH1R0078	RANGA GEETHA PRIYA	Ranga	Ranga	Ranga	Ranga	Ranga	Ranga	Ranga
22DH1S0306	GOLU KUMAR NIRALA	Golu	Golu	Golu	Golu	Golu	Golu	Golu
22DH1S0315	TAMMALI AKHILA	Akhila	Akhila	Akhila	Akhila	Akhila	Akhila	Akhila
22DH1S1203	G PUSHPA	G Pushpa	G Pushpa	G Pushpa	G Pushpa	G Pushpa	G Pushpa	G Pushpa
22DH1S0106	DANDI TEJASWI	Dandi	Dandi	Dandi	Dandi	Dandi	Dandi	Dandi
22DH1S0112	SAMEERA NOUSHEEN	Sameera	Sameera	Sameera	Sameera	Sameera	Sameera	Sameera

K. Ravi

Course coordinator



[Signature]

Principal

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Vishnu Institute of Pharmaceutical Education & Research

Narsapur, Medak, Telangana

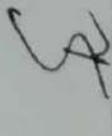
NAAC, NBA Accredited, NIRF Ranking 2023-75




IPA, Narsapur

Certificate of Participation

This is to certify that Neha Bearing roll No: 19PH120058 of Course : «B.Pharmacy / M.Pharmacy» has successfully completed 7 days certificate course on "Clinical Data Management - Industry Perspectives " from 01/05/2023 to 08/05/2023, organized by IIC VIPER Narsapur , in association with IPA Narsapur Branch.


Supraja Raghunathan
Instructor


Dr. A. Ramesh
Principal VIPER.



Vishnu Institute of Pharmaceutical Education & Research

Narsapur, Medak, Telangana

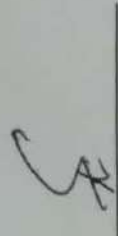
NAAAC, NBA Accredited, NIRF Ranking 2023-75



IPA, Narsapur

Certificate of Participation

This is to certify that SAMERA JOURNAL Bearing roll No: 22DHLS0112 of Course :
«B. Pharmacy / M. Pharmacy» has successfully completed 7 days certificate course on "*Clinical Data
Management - Industry Perspectives*" from 01/05/2023 to 08/05/2023, organized by IIC VIPER
Narsapur , in association with IPA Narsapur Branch.


Supraja Raghunathan
Instructor


Dr. A. Ramesh
Principal VIPER.



 **GPS Map Camera**

Tuljaraopet, Telangana, India

BVRIT College Bus Stop, SH 17, Tuljaraopet, Telangana 502313, India

Lat 17.728772°

Long 78.25559°

K. Rao





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Date: 10.01.23

REPORT

Name of the program: Clinical Data Management - Industry Perspectives

Duration: Two weeks

Resource person: Mrs. Supraja Raghunathan

Vishnu Institute of Pharmaceutical Education & Research, Narsapur, organized certificate course on "**Clinical Data Management - Industry Perspectives**" from 03.01.23 to 10.01.23 Mrs. Supraja Raghunathan, Covalent Technologies Hyderabad played a key role in organizing this program. A total of 15 students participated in this program. After completing this program, students were able to comprehend the objectives and learning outcomes indicated below.

Objectives

- To promote high standards in pharmaceutical product production, quality assurance and preparation of compound medicinal prescriptions, pharmaceutical and other appropriate products.

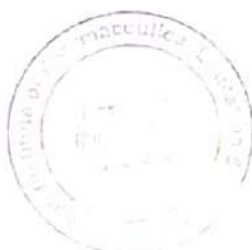
Outcome

Students will be able to Know

- The key regulatory and compliance elements with respect to Good Manufacturing Practices,
- Good Laboratory Practices,
- Good Automated Laboratory Practices and Good Documentation Practices.
- Prepare and implement the check lists and SOPs for various Good Regulatory Practices. Implement Good Regulatory Practices in the Healthcare and related Industries.
- Prepare for the readiness and conduct of audits and inspections.

All the students, found the training to be extremely beneficial, and they all gave favorable feedback. Finally, the Coordinator, Dr.K.Ramanjaneyulu thanked the resource person and congratulated all participants for making the program a success.


Coordinator





Principal

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CIRCULAR

Date: 28.02.23

Our Institute is planned to conduct certificate course on "Medical Coding" for the benefit of IVth Year B.Pharm and IInd Year M.Pharm students. This course is scheduled from 09.03.23 to 24.03.23 for both theory and case studies. The timings are 1:30PM to 5:30PM.

All registered students must attend all classes without fail. Mr. G.Suryam Assistant Professor in the Department of Pharmaceutics, has been designated as the course coordinator.

A handwritten signature in black ink, appearing to be 'RA' with a flourish.

Head -IQAC

Copy to:

All HOD's
Course Coordinator



A handwritten signature in black ink, appearing to be 'RAJC' with a flourish.

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MEDICAL CODING

- Medical coding involves the systematic conversion of medical diagnoses, procedures, services, and equipment into universally recognized alphanumeric codes. These codes, derived from various sources such as physician's notes, laboratory reports, and radiologic results within medical record documentation, play a crucial role in streamlining healthcare information

WHAT DO MEDICAL CODERS DO ?

- Medical coders dedicate their time to reviewing medical records, meticulously assigning these alphanumeric codes. Their responsibility extends to ensuring that healthcare professionals receive accurate compensation for the services they provide.

SCOPE

The Medical Coding Industry has embraced the forefront of information technology, presenting significant opportunities within the Indian healthcare sector. Medical coding firms typically offer an average annual salary ranging from 2 to 4.5 lakhs. Moreover, this profession serves as an excellent entry point for individuals aspiring to pursue more lucrative and advanced careers in medical office administration.

PROGRAM OVERVIEW

The Medical Coding Certificate program offers a comprehensive blend of academic and clinical education, focusing on both inpatient and outpatient coding. The curriculum includes essential courses in health record content, medical terminology, anatomy and physiology, disease processes, treatments, and medical supplies and implants. Graduates of the program are well-equipped to execute medical coding functions across diverse healthcare facilities.

BENEFITS

Personalized Attention and Guidance: Students in the program receive individualized attention and guidance, ensuring a supportive learning environment tailored to their needs.

Employment Opportunities: The program provides a pathway to employment in the healthcare sector, offering graduates the skills and knowledge needed for successful careers in medical coding.

Superior Classroom Education: Students benefit from superior classroom education delivered by experienced industry professionals. The program is designed to impart knowledge that aligns with industry standards, preparing graduates for success in their roles.





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Curriculum design

Day 1-2: Overview of Medical Coding, Introduction to medical coding, Importance of accurate coding in healthcare, Role of a medical coder, Key coding systems: ICD-10-CM, CPT, HCPCS Level II.

Day 3-4: ICD-10-CM (International Classification of Diseases, 10th Edition, Clinical Modification) Basics of ICD-10-CM coding. Coding guidelines and conventions Practice exercises with common diagnoses.

Day 5-6: CPT (Current Procedural Terminology), Basics of CPT coding, Coding guidelines and conventions, Evaluation and management (E/M) coding , Practice exercises with common procedures.

Day 7-8: HCPCS Level II (Healthcare Common Procedure Coding System), Overview of HCPCS Level II, Coding for supplies, equipment, and services not covered by CPT, Practice exercises

Day 9-10: Anatomy and Physiology for Coders Basic anatomy and physiology concepts relevant to coding Understanding medical terminology Applying anatomical and physiological knowledge to coding

Day 11-12: Practical Coding Applications Case studies and real-world coding scenarios Integration of ICD-10-CM, CPT, and HCPCS Level II coding Hands-on coding practice using coding software/tools

Day 13-14: Review and Exam Preparation Review of key coding concepts Practice exams and assessments Q&A session for clarification Tips for successful exam taking





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VISHNU INSTITUTE OF PHARMACEUTICAL EDUCATION AND RESEARCH

Sangareddy-Narsapur Rd, Narsapur, Telangana-502313

Approved by PCI, AICTE and Affiliated to JNTUH

Email: viper@viper.ac.in Website: viper.ac.in

Phone: 08458-222002

Name of the course : Medical Coding

Attendance

2023

H.No 19DHR	Name of the student	09/03	10/03	11/03	13/03	14/03	15/03	16/03	17/03	18/03	20/03	21/03	22/03	23/03	24/03
0064	P.NIKHIL RAO	P. Nikhil	P. Nikhil	P. Nikhil	P. Nikhil	P. Nikhil	P. Nikhil	P. Nikhil	P. Nikhil	P. Nikhil	P. Nikhil	P. Nikhil	P. Nikhil	P. Nikhil	P. Nikhil
0065	P. SOWMYA	P. Sowmya	P. Sowmya	P. Sowmya	P. Sowmya	P. Sowmya	P. Sowmya	P. Sowmya	P. Sowmya	P. Sowmya	P. Sowmya	P. Sowmya	P. Sowmya	P. Sowmya	P. Sowmya
0067	P. G. SAHANA	P. G. Sahana	P. G. Sahana	P. G. Sahana	P. G. Sahana	P. G. Sahana	P. G. Sahana	P. G. Sahana	P. G. Sahana	P. G. Sahana	P. G. Sahana	P. G. Sahana	P. G. Sahana	P. G. Sahana	P. G. Sahana
0068	DEEVENA KUMARI	Deevana	Deevana	Deevana	Deevana	Deevana	Deevana	Deevana	Deevana	Deevana	Deevana	Deevana	Deevana	Deevana	Deevana
0069	P. DEVENDER	P. Devender	P. Devender	P. Devender	P. Devender	P. Devender	P. Devender	P. Devender	P. Devender	P. Devender	P. Devender	P. Devender	P. Devender	P. Devender	P. Devender
0070	P. DEEKSHITHA	P. Deekshitha	P. Deekshitha	P. Deekshitha	P. Deekshitha	P. Deekshitha	P. Deekshitha	P. Deekshitha	P. Deekshitha	P. Deekshitha	P. Deekshitha	P. Deekshitha	P. Deekshitha	P. Deekshitha	P. Deekshitha
0071	P. AKHILA KUMARI	Akhila	Akhila	Akhila	Akhila	Akhila	Akhila	Akhila	Akhila	Akhila	Akhila	Akhila	Akhila	Akhila	Akhila
0072	P. ANUSHA	Anusha	Anusha	Anusha	Anusha	Anusha	Anusha	Anusha	Anusha	Anusha	Anusha	Anusha	Anusha	Anusha	Anusha
0073	P. SAISRI	P. Saisri	P. Saisri	P. Saisri	P. Saisri	P. Saisri	P. Saisri	P. Saisri	P. Saisri	P. Saisri	P. Saisri	P. Saisri	P. Saisri	P. Saisri	P. Saisri
0074	P. RAYYALAKSHMI	R. Lakshmi	R. Lakshmi	R. Lakshmi	R. Lakshmi	R. Lakshmi	R. Lakshmi	R. Lakshmi	R. Lakshmi	R. Lakshmi	R. Lakshmi	R. Lakshmi	R. Lakshmi	R. Lakshmi	R. Lakshmi
0075	R. ABHINAV	Abhinav	Abhinav	Abhinav	Abhinav	Abhinav	Abhinav	Abhinav	Abhinav	Abhinav	Abhinav	Abhinav	Abhinav	Abhinav	Abhinav
SI206	H. SANTHOSHA	Santhosha	Santhosha	Santhosha	Santhosha	Santhosha	Santhosha	Santhosha	Santhosha	Santhosha	Santhosha	Santhosha	Santhosha	Santhosha	Santhosha
SI207	KEERTHANA	Keethana	Keethana	Keethana	Keethana	Keethana	Keethana	Keethana	Keethana	Keethana	Keethana	Keethana	Keethana	Keethana	Keethana
SI208	MAMATHA	Mamatha	Mamatha	Mamatha	Mamatha	Mamatha	Mamatha	Mamatha	Mamatha	Mamatha	Mamatha	Mamatha	Mamatha	Mamatha	Mamatha

Course coordinator

Principal



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Vishnu Institute of Pharmaceutical Education & Research

Narsapur, Medak, Telangana

NAAC, NBA Accredited, NIRF Ranking 2023-75



IPA, Narsapur

Certificate of Participation

This is to certify that ~~Mr~~/MS. ~~V. VEEESHITHA~~ Bearing Roll No: [19D#1R0070], pursuing the course of [B.Pharmacy /M.Pharmacy], has satisfactorily completed 14 day workshop titled "**Medical Coding**" from March 9, 2023, to March 24, 2023, was conducted by IIC VIPER in collaboration with IPA Narsapur.

Mr. G..Suryam
Course
coordinator

Dr. A. Ramesh
Principal VIPER.



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Narsapur, Medak, Telangana

NAAC, NBA Accredited, NIRF Ranking 2023-75



IP A, Narsapur

Certificate of Participation

This is to certify that Mr/Ms. Mr. K. RAO Bearing Roll No: 19DH1K0064, pursuing the course of [B.Pharmacy /M.Pharmacy], has satisfactorily completed 14 day workshop titled "**Medical Coding**" from March 9, 2023, to March 24, 2023, was conducted by IIC VIPER in collaboration with IPA Narsapur.

Mr. G. Suryam
Course
coordinator

Dr. A. Ramesh
Principal VIPER.



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Phone: 08458-222002

Date: 24.03.23

REPORT

Name of the program: Medical Coding

Duration: Two week

Resource person:

Vishnu Institute of Pharmaceutical Education & Research, Narsapur, organized certificate course on "Medical Coding" from 09.03.23 to 24.03.23, Shrikant Sinha Telangana Academy for Skill and Knowledge was the instrumental of this program. A total of 14 students participated in this program. After completing this program, students were able to comprehend the objectives and learning outcomes indicated below.

Objectives

- Accurately apply ICD-10-CM, CPT, and HCPCS codes for precise documentation of patient diagnoses, procedures, and services.
- Accurately apply ICD-10-CM, CPT, and HCPCS codes for precise documentation of patient diagnoses, procedures, and services.
- Minimize errors, reduce claim denials, and enhance reimbursement efficiency through effective medical coding.
- Cultivate clear and concise communication to facilitate collaboration among healthcare stakeholders, improving overall patient care

Outcome

Students will be able to

- Demonstrate the ability to assign precise ICD-10-CM, CPT, and HCPCS codes for comprehensive and accurate representation of medical procedures and diagnoses.
- Understand the financial implications of coding accuracy, contributing to the optimization of revenue cycles by minimizing claim denials and maximizing reimbursement for healthcare services.
- Develop communication skills to convey complex coding information clearly, fostering collaboration with healthcare teams and improving overall patient care outcomes.

All the students, found the training to be extremely beneficial, and they all gave favourable feedback. Finally, the Coordinator, Dr.G.Suryam thanked the resource person and congratulated all participants for making the program a success.


Coordinator





Principal

Vishnu Institute of Pharmaceutical
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Narsapur, Medak Dist.-502 313, TS



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CIRCULAR

Date: 01.11.23

Our Institute is planned to conduct certificate course on "Applications of Artificial Intelligence in Drug Discovery and Development" for the benefit of IVth Year B.Pharm and IInd Year M.Pharm students. This course is scheduled from 06.11.23 to 21.11.23 for both theory and case studies. The timings are 1:30PM to 5:30PM.

All registered students must attend all classes without fail. Dr.C.Soujanya Associate Professor in the Department of Pharmaceutics, has been designated as the course coordinator.

A handwritten signature in black ink, appearing to be 'Raj', written over a circular stamp.

Head -IQAC



A handwritten signature in black ink, appearing to be 'Raj', written over a circular stamp.

Principal

PRINCIPAL

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Education & Research
Narsapur, Medak Dist.-502 313, TS.

Copy to:

All HOD's
Course Coordinator

Course overview

Embark on a transformative exploration of Applications of Artificial Intelligence in Drug Discovery and Development. This course unveils the potent synergy between cutting-edge AI methodologies—machine learning, deep learning, and natural language processing—and traditional drug development. Dive into hands-on experiences across crucial stages, from target identification to clinical trials. Uncover real-world success stories, equipping yourself to critically assess AI's impact on drug discovery, navigate ethical considerations, and shape the future of pharmaceutical innovation. Elevate your skills and insights in this dynamic frontier of healthcare advancement.

Who can attend?

All final year and M.Pharmacy students

Course Learning Objectives

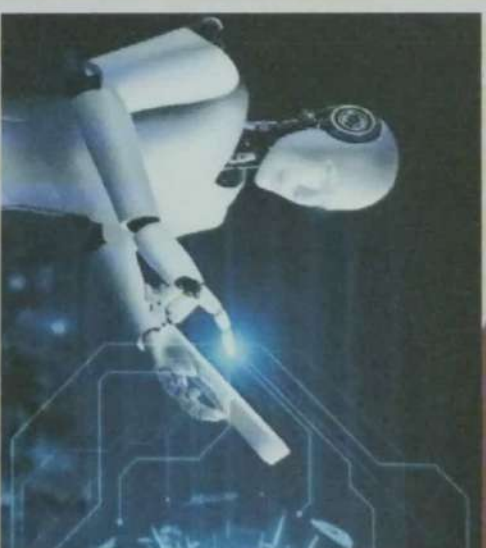
- Develop a solid understanding of fundamental AI concepts, including machine learning algorithms, deep learning techniques, and their application in drug discovery.
- Gain hands-on experience in using AI tools for various stages of drug development, from target identification to clinical trial optimization.
- Learn to critically evaluate the impact of AI on drug discovery processes, including its effectiveness, challenges, and ethical considerations.

What will you learn?

- Fundamentals of AI in Drug Discovery
- AI Tools for Target Identification
- Optimizing Lead Compounds with AI
- Application of AI in Clinical Trials
- Critical Evaluation and Ethical Considerations

Area of job Opportunities

- AI in Healthcare
- E-commerce and Retail
- Finance and Banking
- Cybersecurity
- Entertainment and Gaming



APPLICATIONS OF ARTIFICIAL INTELLIGENCE IN DRUG DISCOVERY AND DEVELOPMENT

Resource person

- Dr. Niladri Dey Shekar
- HOD-Artificial Intelligence and Data Science
- Dr. Surajit Das
- Associate Professor-Artificial Intelligence and Data Science





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Curriculum design

Module 1: Introduction to Artificial Intelligence, Overview of AI concepts and types, Machine learning basics, Deep learning introduction

Module 2: Fundamentals of Drug Discovery, Overview of drug discovery process, Drug targets and biomarkers, High-throughput screening

Module 3: Role of AI in Drug Discovery, Applications of AI in drug discovery, Case studies of successful AI-driven drug discoveries, Challenges and opportunities

Module 4: Machine Learning in Drug Discovery, Supervised and unsupervised learning in drug discovery, Feature selection and engineering, Predictive modeling in drug development

Module 5: Deep Learning Applications, Deep learning architectures (neural networks, CNNs, RNNs), Deep learning for image analysis in drug discovery, Generative models for molecular design

Module 6: Natural Language Processing (NLP) in Drug Development, Text mining and literature review in drug discovery, Drug repurposing using NLP, Extracting insights from scientific literature

Module 7: Ethical and Regulatory Considerations, Ethical implications of AI in drug development, Regulatory challenges and guidelines, Future trends and outlook





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Attendance

Name of the course : Applications of Artificial Intelligence in Drug Discovery and Development - 2023

H.No	Name of the student	06/11	07/11	08/11	09/11	10/11	11/11	13/11	14/11	15/11	16/11	17/11	18/11	20/11	21/11
20DH1R0063	NALLA VYSHNAVI	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
20DH1R0064	NALLAM JAVALI RATNA	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
20DH1R0065	YESHWANTH RAJ	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
20DH1R0090	UPENDRANATH REDDY	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
20DH1R0091	SUNNAPU MEGHANA	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
20DH1R0092	VINAY GOUD	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
20DH1R0093	PAVANI BRUNDHA	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
20DH1R0094	THARAKA BHARATH	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
20DH1R0097	VINJARAPU SATISH	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
22DH1S0106	DANDI TEJASWI	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
22DH1S0107	GOWRAGALLA SUSHMA	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
22DH1S0108	VANJARI RAVALI	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
22DH1S0109	KURMA SHRAVANI	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
22DH1S0110	MANDA SAILAJA	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
22DH1S0111	NAKKA SANDHYA	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
22DH1S0112	SAMEERA NOUSHEEN	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
22DH1S0113	YENNAGARI SOWMYA	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present

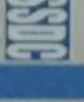
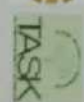
Course coordinator

Principal



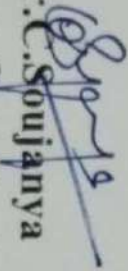
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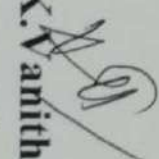
Vishnu Institute Of Pharmaceutical Education & Research
Narsapur, Medak Dist, Telangana




Certificate of Participation

This is to certify that Mr/Ms. MALLA VISHNAY of
has successfully completed three days hands on Training on “Applications of
Artificial Intelligence in Drug Discovery and Development” conducted from
6/11/2023 to 08/11/2023, organized by VIPER, in association with, IPA Narsapur
Branch, APTI, PTT and BVRTN.


Dr. C. Soujanya
Course Coordinator

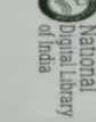
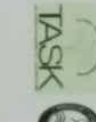

Dr. K. Vanitha
HoD. Pharmaceuticals, VIPER


Dr. A. Ramesh
Principal VIPER.



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Certificate of Participation

This is to certify that **Mr/Ms. NALLAM JAVALI RAVNA** of
has successfully completed three days hands on Training on “**Applications of
Artificial Intelligence in Drug Discovery and Development**” conducted from
6/11/2023 to 08/11/2023, organized by VIPER, in association with, IPA Narsapur
Branch, APTI, PTI and BVRITN.


Dr. C. Sujanya
Course Coordinator


Dr. K. Vanitha
HoD. Pharmaceuticals, VIPER


Dr. A. Ramesh
Principal VIPER.



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REPORT

Date: 21.11.23

Name of the program: Applications of Artificial Intelligence in Drug Discovery and Development

Duration: Two week

Resource person: Dr. Niladri Dey Shekar

Vishnu Institute of Pharmaceutical Education & Research, Narsapur, organized one month certificate course on "**Applications of Artificial Intelligence in Drug Discovery and Development**" from 06.11.23 to 21.11.23 Dr. Niladri Dey Shekar was the key person of this program. A total of 15 students participated in this program. After completing this program, students were able to comprehend the objectives and learning outcomes indicated below.

Objectives

- Develop Proficiency in AI Tools for Drug Discovery
- Analyze and Interpret AI-Generated Insights
- Design and Execute AI-Driven Drug Discovery Projects

Outcome

Students will be able to

- Understand the Fundamentals of AI in Drug Discovery
- Evaluate the Impact of AI on Drug Development Processes
- Apply AI Tools in Drug Discovery Projects

All the students, found the training to be extremely beneficial, and they all gave favorable feedback. Finally, the Coordinator, Dr.C.Soujanya thanked the resource person and congratulated all participants for making the program a success.



Coordinator



Principal
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Education & Research
Narsapur, Medak Dist.-502 313, TS.

Vishnu Institute of Pharmaceutical Education and Research
Narsapur, Medak, Telangana

Date:06-03-2022

CIRCULAR

This is to inform that three months certification course on '**Biomedical Engineering.**' Will be offered to III and IV B pharmacy students as an interdisciplinary course. Hence, all the students are hereby informed to attend without fail.

G. Lakshmi

By

K. Kar

Pr



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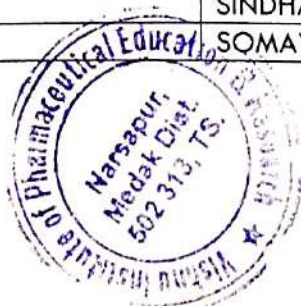
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List of students

s.no	Student Roll No	Student Name
1	19DH1R0001	RACHAMALLA SATHVIKA
2	19DH1R0002	CHELIMALA BABU UDAYTEJA
3	19DH1R0003	AMBATI DIVYA JYOTHI
4	19DH1R0005	ARROLLA AKSHAY KUMAR
5	19DH1R0006	AYESHA PARVEEN
6	19DH1R0007	BACHU KAVYA
7	19DH1R0008	BADHE NAMRATHA
8	19DH1R0009	BAINDLA LAVANYA
9	19DH1R0010	B. KARTHIK REDDY
10	19DH1R0011	BANURI USHA
11	19DH1R0012	BATTU SRIMUKHI
12	19DH1R0013	BHUSHANSHETTY SHIVATVIKA
13	19DH1R0014	BUSSA VARSHA
14	19DH1R0015	VINJAMURI BHAVYA SRI
15	19DH1R0016	CHINTHAKUNTA SATHVIKA
16	19DH1R0017	CHIPPE SRIVANI
17	19DH1R0018	DAPPU DILIP KUMAR
18	19DH1R0020	EMMADI DAKSHAYANI
19	19DH1R0021	ETTADI RUPIKA REDDY
20	19DH1R0022	G MYTHRI
21	19DH1R0024	GANGANOLLA SANJU BHARGAVI
22	19DH1R0025	GANJI POOJA
23	19DH1R0026	GANTAMOINA HARSHITHA
24	19DH1R0027	GONE SHIVA PRASAD
25	19DH1R0028	HADNOOR MAHESH
26	19DH1R0029	JAJJARAPU ANIL
27	19DH1R0030	JEEDIMETLA SHIVANI
28	19DH1R0031	K SAMBASHIVA CHARI
29	19DH1R0033	KANCHARLA NITHYA SRI
30	19DH1R0034	KAREDLA SREEJA REDDY
31	19DH1R0035	KARRA LAYA
32	19DH1R0036	KATTA BHAVANA
33	19DH1R0037	KATTA YASHWANTH SAI RAJ
34	19DH1R0038	KETHAVATH THARUN
35	19DH1R0039	KODICHARAPU PRANAVI
36	19DH1R0040	KUMMARI KUMAR
37	19DH1R0041	KUMMARI SRILATHA
38	19DH1R0042	LOURA VIKONA J



39	19DH1R0044	MADHULA PARAMESH
40	19DH1R0045	MALOTH SAROJA
41	19DH1R0047	MANGALI ANILKUMAR
42	19DH1R0048	MANNE SRAVANI
43	19DH1R0049	MAREPALLY CHANDRIKA
44	19DH1R0050	MIRAJDAR VAISHNAVI
45	19DH1R0051	MOTHUKURI RISPACHELSI
46	19DH1R0052	MUDAPAKA SHREERAMANI SHREEKARA
47	19DH1R0053	MUDELI SAI KEERTHI
48	19DH1R0054	NAKKA CHANDANA
49	19DH1R0055	NALLA LIKITHA
50	19DH1R0056	NANCHARI BHAVANI
51	19DH1R0057	NAREGUDAM SAI KIRAN
52	19DH1R0058	NEHA
53	19DH1R0059	NIMMA SNEHA
54	19DH1R0060	NISHANTH BEJUGAM
55	19DH1R0061	NOOR SULTANA
56	19DH1R0062	PAGIDIPATI SUSHMA
57	19DH1R0063	PATHLOTH ARUNKUMAR
58	19DH1R0064	PATIL NIKHIL RAO
59	19DH1R0065	PATLOLLA SOWMYA
60	19DH1R0066	PATLOLLA SRAVANTHI
61	19DH1R0067	PEDDAREDDY GARI SAHANA
62	19DH1R0068	PICHAKUNTLA DEEVENA KUMARI
63	19DH1R0069	POCHAMPALLY DEVENDER
64	19DH1R0070	POONURI DEEKSHITHA REDDY
65	19DH1R0071	POTHARAJU AKHILA KUMARI
66	19DH1R0072	PULIMAMIDI ANUSHA
67	19DH1R0073	PULIMAMIDI SAISRI
68	19DH1R0074	PURIMITLA RAJYALAKSHMI
69	19DH1R0075	RACHAKONDA ABHINAV
70	19DH1R0076	RACHAKONDA AKHILA
71	19DH1R0077	RAMANI AKSHITHA
72	19DH1R0078	RANGA GEETHA PRIYA
73	19DH1R0079	RANGU AKHILA
74	19DH1R0080	RAPARTHI SAI ARJUN
75	19DH1R0081	PRADEEP REDDY
76	19DH1R0082	REBBANIBONI NANDINI
77	19DH1R0083	RUDRARAJU AISHWARYA
78	19DH1R0084	SANGOJU AKSHITHA
79	19DH1R0085	SARA TEJASWI
80	19DH1R0086	SARAP TEJASWI
81	19DH1R0087	SEETHA MAHITHAVANI
82	19DH1R0088	SHAIK MUSTAFA YASEEN
83	19DH1R0089	SHAKERA TAUQEER
84	19DH1R0090	SHAMBUNI MANIKANTH
85	19DH1R0091	SINDHAM SAI KRISHNA
86	19DH1R0092	SOMAYALA GAYATHRI



87	19DH1R0093	SRIHARI LAKSHMAN M V
88	19DH1R0094	SUSHRI SAINA SAR
89	19DH1R0095	SYED FASI AHMED
90	19DH1R0096	TANNIRU THIRUMALA
91	19DH1R0097	THATIPALLY SRIJA
92	19DH1R0098	VADLA RAMYA SREE
93	19DH1R0099	VELLORE DINEESH KUMMAR PARINITA




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B V RAJU INSTITUTE OF TECHNOLOGY

DEPARTMENT OF BIOMEDICAL ENGINEERING

CERTIFICATE COURSE ON BIOMEDICAL ENGINEERING FOR B PHARMACY STUDENTS

SYLLABUS

Muscular And Nervous System:

Types of muscles have functional differences electron microscopic structure of skeletal muscles.

Salient properties of muscle excitability and contractility all or none law, refractory period, fatigue and elasticity muscles as energy transducer, muscle contraction structure and functions of neuron electrical potentials (generator and receptor nerve conduction, synapse and properties synaptic transmission, neurotransmitters motor unit neuro muscular junction, receptors and reflex arc, brain, spinal cord.


Cardiac And Respiratory System: Structure of heart and role as pump, major blood vessels ultra structure of blood vessels, heart valves, special junctional tissues of heart sounds, cardiac cycle.

Transistors: Biasing and Stability Q-point, self-Bias-CE Compensation techniques h- model of transistors Expression for voltage gain, current gain, input and output impedance trans-resistance and trans conductance.

Expression for voltage gain: Current gain, input and output impedance, trans-resistance and trans-Emitter follower circuits, High frequency model of transistors.

Applications of operational Amplifiers: Adder, integrator & differentiator, comparator, Schmitt Trigger instrumentation Amplifier, Log & Anti-log Amplifiers Trans-conductance multiplier, precision Rectifier precision Rectifier Voltage to current and current to Voltage converter, Free running oscillator.




PRINCIPAL
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Education & Research
Narsapur, Medak Dist-502 313, TS.

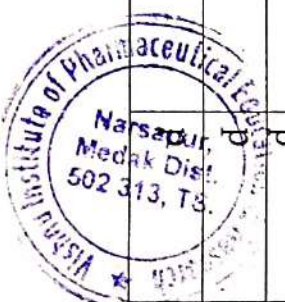


Vishnu Institute of Pharmaceutical Education and Research

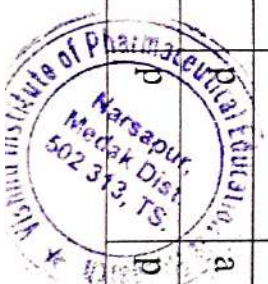
Narsapur, Medak, Telangana

Certification course on Biomedical Engineering Students Attendance sheet

S. No	Roll Number	Student Name	Date Topic	Date Topic	Date Topic	Date Topic	Date Topic	Date Topic	Date Topic
1	19DHI1R0001	Rachamalla Sathvika	4/3/22	15/3/22	22/3/22	19/4/22	26/4/22	3/5/22	16/5/22
2	19DHI1R0002	Chelimala Babu Udayteja	a	p	p	p	p	a	p
3	19DHI1R0003	Arnbati Divya Jyothi	a	p	p	p	p	p	p
4	19DHI1R0005	Arrolla Akshay Kumar	p	p	p	a	p	p	a
5	19DHI1R0006	Ayesha Parveen	p	p	p	p	a	p	p
6	19DHI1R0007	Bachu Kavya	p	p	p	p	p	p	p
7	19DHI1R0008	Badhe Namratha	p	p	a	p	a	p	p
8	19DHI1R0009	Baindia Lavanya	a	p	p	p	p	a	p
9	19DHI1R0010	B.Karthik Reddy	a	p	p	p	p	p	p
10	19DHI1R0011	Banuri Usha	p	p	a	p	a	p	p
11	19DHI1R0012	Battu Srimukhi	p	a	p	p	p	p	p
12	19DHI1R0013	Bhushanashetty Shivatvika	p	p	p	p	p	p	p
13	19DHI1R0014	Bussa Varsha	p	a	p	p	p	p	a
14	19DHI1R0015	Vinjamuri Bhavya Sri	p	p	a	p	a	p	p
15	19DHI1R0016	Chinthakunta Sathvika	a	p	p	p	p	a	p



16	19DHI R0017	Chippe Srivani	a		p		p		p		p		p
17	19DHI R0018	Darpu Dilip Kumar	p		p		a		p		a		p
18	19DHI R0020	Emmadi Dakshayani	p		p		a		p		a		p
19	19DHI R0021	Etadi Rupika Reddy	a		p		p		p		p		p
20	19DHI R0022	G Mythri	a		p		p		p		p		p
21	19DHI R0024	Ganganolla Sanju Bhargavi	p		p		p		a		p		a
22	19DHI R0025	Ganji Pooja	p		p		p		p		a		p
23	19DHI R0026	Gantamoina Harshitha	p		p		p		p		p		p
24	19DHI R0027	Gone Shiva Prasad	p		p		a		p		a		p
25	19DHI R0028	Hadnoor Mahesh	a		p		p		p		p		p
26	19DHI R0029	Jajjarapu Anil	a		p		p		p		p		p
27	19DHI R0030	Jeedimetla Shivani	p		p		a		p		a		p
28	19DHI R0031	K Sambashiva Chari	p		a		p		p		p		p
29	19DHI R0033	Kancharla Nithya Sri	p		p		p		p		p		p
30	19DHI R0034	Karedla Sreeja Reddy	p		a		p		p		p		a
31	19DHI R0035	Katta Laya	p		p		a		p		a		p
32	19DHI R0036	Katta Bhavana	a		p		p		p		p		p
33	19DHI R0037	Katta Yashwanth Sai Raj	a		p		p		p		p		p
34	19DHI R0038	Kethavath Tharun	p		p		a		p		a		p
35	19DHI R0039	Kodicharapu Pranavi	p		p		a		a		a		p
36	19DHI R0040	Kummari Kumar	a		p		p		p		a		p



37	19DH1R0041	Kummari Sriatha	a	p	p	p	p	p	p	p	p	p
38	19DH1R0042	Loura Vikona J	p	p	p	p	a	p	p	p	a	
39	19DH1R0044	Madhula Paramesh	p	p	p	p	p	a	p	p	p	
40	19DH1R0045	Maloth Saroja	p	p	p	p	p	p	p	p	p	
41	19DH1R0047	Mangali Anilkumar	p	p	a	p	p	a	p	p	p	
42	19DH1R0048	Manne Savani	a	p	p	p	p	p	a	p	p	
43	19DH1R0049	Marepally Chandrika	a	p	p	p	p	p	p	p	p	
44	19DH1R0050	Mirajdar Vaishnavi	p	p	a	p	p	a	p	p	p	
45	19DH1R0051	Mohukuri Rispachelsi	p	a	p	p	p	p	p	p	p	
46	19DH1R0052	Mudapaka Shreeramani Shreekara	p	p	p	p	p	p	p	p	p	
47	19DH1R0053	Mudeli Sai Keerthi	p	a	p	p	p	p	p	p	a	
48	19DH1R0054	Nakka Chandana	p	p	a	p	p	a	p	p	p	
49	19DH1R0055	Nalla Likitha	a	p	p	p	p	p	p	a	p	
50	19DH1R0056	Nanchari Bhavani	a	p	p	p	p	p	p	p	p	
51	19DH1R0057	Naregudam Sai Kiran	p	p	a	p	p	a	p	p	p	
52	19DH1R0058	Neha	p	p	a	p	p	a	p	p	p	
53	19DH1R0059	Nimma Sneha	a	p	p	p	p	p	a	p	p	
54	19DH1R0060	Nishanth Bejugam	a	p	p	p	p	p	p	p	p	
55	19DH1R0061	Noor Sultana	p	p	p	p	p	p	p	p	a	



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75	19DH1R0081	Pradeep Reddy	P		P		a		P		P	P
76	19DH1R0082	Rehanbani Nandini	a		P		P		P		a	P
77	19DH1R0083	Rudharaju Aishwarya	a		P		P		P		P	P
78	19DH1R0084	Sangoju Akshitha	P		P		a		P		a	P
79	19DH1R0085	Sara Tejaswi	P		a		P		P		P	P
80	19DH1R0086	Sarap Tejaswi	P		P		P		P		P	P
81	19DH1R0087	Seetha Mahithavani	P		a		P		P		P	a
82	19DH1R0088	Shaik Mustafa Yaseen	P		P		a		P		a	P
83	19DH1R0089	Shakera Tauqeer	a		P		P		P		P	P
84	19DH1R0090	Shambuni Manikanth	a		P		P		P		P	P
85	19DH1R0091	Sindham Sai Krishna	P		P		a		P		a	P
86	19DH1R0092	Somayala Gayathri	P		P		a		P		a	P
87	19DH1R0093	Srihari Lakshman M V	a		P		P		P		a	P
88	19DH1R0094	Sushri Saina Sar	a		P		P		P		P	P
89	19DH1R0095	Syed Fasi Ahmed	P		P		P		a		P	a
90	19DH1R0096	Tanniru Thirumala	P		P		P		P		a	P
91	19DH1R0097	Thatipally Srija	P		P		P		P		P	P
92	19DH1R0098	Vadla Ramya Sree	P		P		a		P		a	P
93	19DH1R0099	Vellore Dineesh Kumar Parinitha	a		P		P		P		P	P



PRINCIPAL



Vishnu Institute of Pharmaceutical Education and Research
Narsapur, Medak, Telangana
INTERDISCIPLINARY COURSE
(Certification course on Biomedical Engineering)
AC.YR.2022-2023

Preamble:

This course is designed to facilitate engineers having knowledge and skills to deal with the synthesis, process, product development, design and operation of plants that produce pharmaceuticals and related products.

OBJECTIVES:

1. To train the pre graduates who are proficient in using modern tools of engineering analysis.
2. To develop a strong background in physical, chemical, biological sciences and mathematical for designed pharmaceutical procedures.
3. To train in the newly developed analytical procedures.


Resources person

Faculty member

Department of chemical engineering

B V Raju Institute of Technology

Vishnupur, Narsapur, Medak (Dist.)-502313.

Telangana, India.


Coordinator

Mrs. Durga Bhavani

Assistant Professor

Department of Pharmaceutics

Vishnu institute of pharmaceutical education and Research

Narsapur, Medak,

Telangana-502313.

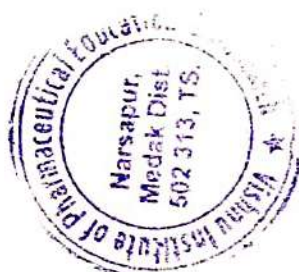




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Vishnu Institute of Pharmaceutical Education and Research
Narsapur, Medak, Telangana

Certification course on Biomedical Engineering
TIMETABLE
AC.YR.2022-2023

S.NO	DATE	TOPIC	FACULTY
1	8/3/2022	Muscular system	Mr. M. Prabhakar Reddy
2	15/3/2022	Nervous system	Mr. M. Prabhakar Reddy
3	22/3/2022	Respiratory system	Mr. M. Prabhakar Reddy
4	29/3/2022	Transistors	Mr. A. Srilatha
5	5/4/2022	Biasing and stability Q-Point	Mr. A. Srilatha
6	12/4/2022	Output, impedance trans resistance and transconductance	Mr. A. Srilatha
7	19/4/2022	Expression for voltage gain	Mr. A. Srilatha
8	26/4/2022	Applications of operational amplifiers	V. Sripathi Raja
9	3/5/2022	Applications of operational amplifiers	V. Sripathi Raja
10	3/5/2022	Applications of operational amplifiers	V. Sripathi Raja
11	15/4/2022	Free running oscillators trans conductance multipliers, log, and antilog amplifiers	V. Sripathi Raja




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Vishnu Institute of Pharmaceutical Education and Research
Narsapur, Medak, Telangana

Date:06-03-2023

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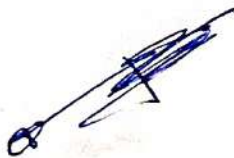
We are pleased to inform you that there is a Threemonths certification course on 'Chemical Engineering.' Will be offered to IV B pharmacy students as interdisciplinary course. Hence, all the students are hereby informed to attend without fail.



G. Shankar

For

By  K. Ravi





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Vishnu Institute of Pharmaceutical
Education & Research
Narsapur, Medak Dist.-502 313, TS.

Vishnu Institute of Pharmaceutical Education and Research
Narsapur, Medak, Telangana

Certification course on Chemical Engineering

Ac.Year-2022-2023

List of students

s.no	Student Roll No	Student Name
1	20DH1R0001	M Chaitanya
2	20DH1R0002	Patlolla Shravika
3	20DH1R0003	Amgoth Kalyan
4	20DH1R0004	Amireddy Tejasree
5	20DH1R0005	AndoleDivyamithra
6	20DH1R0006	Aradigunta Poojasree
7	20DH1R0007	Arrolla Keerthana
8	20DH1R0008	Athelli Sai Pranavi
9	20DH1R0009	Avusula Sowmya
10	20DH1R0010	Ayesha Siddiqua
11	20DH1R0011	Ayesha Sulthana
12	20DH1R0012	B Nikhil Vardhan Reddy
13	20DH1R0013	Banothu Sowjanya
14	20DH1R0014	Baradi Uday Kiran
15	20DH1R0015	Binit Kumar Sarangi
16	20DH1R0016	Boreddy Sneha
17	20DH1R0017	Chimmula Pooja
18	20DH1R0018	Chippa Ramya
19	20DH1R0019	Dasari Poojitha
20	20DH1R0020	Diddi Rohith Kumar
21	20DH1R0021	Doddala Ranjith Kumar
22	20DH1R0022	Edara Kyathi Nandini
23	20DH1R0023	Edla Mounika
24	20DH1R0024	Gaddam Shruthika
25	20DH1R0025	Gajjela Aishwarya
26	20DH1R0026	Gandham Sakruthi
27	20DH1R0027	Gopireddy Shiva Reddy
28	20DH1R0028	Guda Varsha
29	20DH1R0029	Gudoor Sri Vaishnavi
30	20DH1R0030	Gunduluru Latha
31	20DH1R0031	Gunthadoddi Pravalika
32	20DH1R0032	Hafsa
33	20DH1R0033	Hasnavada Venu Madhav
34	20DH1R0034	Jaligama Vinay Goud
35	20DH1R0035	Joshi Ruchitha
36	20DH1R0036	Juluri Sumana Sri



37	20DH1R0037	K Himanshu Reddy
38	20DH1R0038	Kajal Varma
39	20DH1R0039	Kalali Chandana
40	20DH1R0040	Kalidindi Jahnavi
41	20DH1R0041	KaveliChamanthi
42	20DH1R0042	Kokkonda Deepthi
43	20DH1R0043	Kolkuri Sravani
44	20DH1R0044	Kothakummari Tharun
45	20DH1R0045	Kunchalapalli Kanthi Latha
46	20DH1R0047	M Sai Priya
47	20DH1R0049	Machana Bhavani
48	20DH1R0050	Mandumula Vasavi
49	19DH1R0032	KalaliSathyaprasad Goud
50	19DH1R0046	Manda Sai Sampreeth
51	20DH1R0051	Manga Sneha
52	20DH1R0052	Marrapu Tejaswani
53	20DH1R0053	Mekala Yellaiah
54	20DH1R0054	Methri Rohan Kumar
55	20DH1R0055	Mohd Muzaffar Ahmed
56	20DH1R0056	Mohammed Arshad
57	20DH1R0057	Mohammed Ayazuddin
58	20DH1R0058	Mohammed Shafi
59	20DH1R0059	Moulannunnisa Begum
60	20DH1R0060	Muthyala Sneha
61	20DH1R0061	Mutluri Tejamahi
62	20DH1R0062	Nagarapu Sravya
63	20DH1R0063	Nalla Vyshnavi
64	20DH1R0064	NallamJavali Ratna
65	20DH1R0065	Nandala Yeshwanth Raj
66	20DH1R0066	Nayakwadi Pravalika
67	20DH1R0067	Nizampuram Bhavani
68	20DH1R0068	P Nikila Reddy
69	20DH1R0069	P Sai Kumar
70	20DH1R0070	P Tapasvi
71	20DH1R0071	Pabba Sathvika
72	20DH1R0072	Pathuri Venkat Koushik
73	20DH1R0073	Patlolla Aravind Reddy
74	20DH1R0074	Peddagolla Jyothi
75	20DH1R0075	Peddareddygari Sai Balaji Reddy
76	20DH1R0076	Pinlodi Sai Priya
77	20DH1R0077	Podishetty Manisha
78	20DH1R0078	Puli Swapna Priya
79	20DH1R0079	Putta Pravallika
80	20DH1R0080	Ramavath Sneha Latha
81	20DH1R0081	Rasthapuram Madhuri
82	20DH1R0082	Reddy shetty Lahari



83	20DH1R0083	S Pavani
84	20DH1R0084	Saniya
85	20DH1R0085	Shruthi Verma
86	20DH1R0086	Siddunuri Vikas Reddy
87	20DH1R0087	Sindhu Gunda
88	20DH1R0088	Singam Nikhitha
89	20DH1R0089	Singirikonda Pavithra
90	20DH1R0090	Sirigiri Upendranath Reddy
91	20DH1R0091	Sunnapu Meghana
92	20DH1R0092	Tangadapally Vinay Goud
93	20DH1R0093	Tekulapally Pavani Brundha
94	20DH1R0094	Tharaka Bharath
95	20DH1R0095	Vamshi Sindi
96	20DH1R0096	Vanjari Indumathi
97	20DH1R0097	Vinjarapu Satish
98	20DH1R0098	Vuppala Sai Kiran
99	20DH1R0099	Yalala Nikitha
100	20DH1R00A0	Thammi Rupa
101	21DH5R0002	Kairamkonda Manasa



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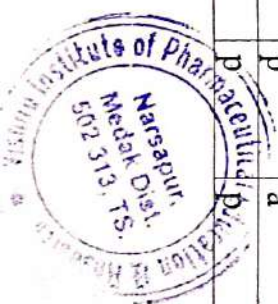
Vishnu Institute of Pharmaceutical Education and Research
Narsapur, Medak, Telangana

Certification course on Chemical Engineering
Students Attendance sheet

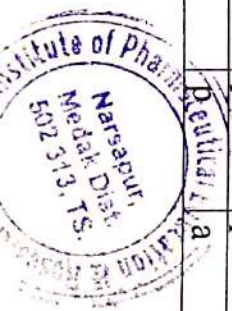
S. No	Roll Number	Student Name	Date 7/3/22 Topic	Date 29/3/22 Topic	Date 19/4/22 Topic	Date 26/4/22 Topic	Date 3/5/22 Topic	Date 3/5/22 Topic	Date 16/5/22 Topic
1	20DH1R0001	M Chaitanya	p	p	a	p	a	p	p
2	20DH1R0002	Patlolla Shravika	a	p	p	p	p	a	p
3	20DH1R0003	Amgoth Kalyan	a	p	p	p	p	p	p
4	20DH1R0004	Amireddy Tejasree	p	p	p	a	p	p	a
5	20DH1R0005	AndoleDivyamithra	p	p	p	p	a	p	p
6	20DH1R0006	Aradigunta Poojasree	p	p	p	p	p	p	p
7	20DH1R0007	Arrolla Keerthana	p	p	a	p	a	p	p
8	20DH1R0008	Athelli Sai Pranavi	a	p	p	p	p	a	p
9	20DH1R0009	Avusula Sowmya	a	p	p	p	p	p	p
10	20DH1R0010	Ayesha Siddiqua	p	p	a	p	a	p	p
11	20DH1R0011	Ayesha Sulthana	p	a	p	p	p	p	p
12	20DH1R0012	B Nikhil Vardhan Reddy	p	p	p	p	p	p	p
13	20DH1R0013	Banothu Sowjanya	p	a	p	p	p	p	a
14	20DH1R0014	Baradi Uday Kiran	p	p	a	p	a	p	p
15	20DH1R0015	Binit Kumar Sarangi	a	p	p	p	p	a	p
16	20DH1R0016	Boreddy Sneha	a	p	p	p	p	p	p



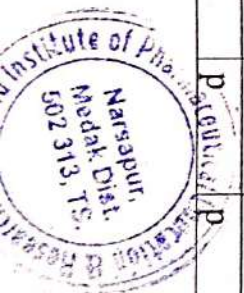
17	20DH1R0017	Chimmula Pooja	P	P	a	P	a	P	P
18	20DH1R0018	Chippa Ramya	P	P	a	P	a	P	P
19	20DH1R0019	Dasari Poojitha	a	P	P	P	P	a	P
20	20DH1R0020	Diddi Rohith Kumar	a	P	P	P	P	P	P
21	20DH1R0021	Doddala Ranjith Kumar	P	P	P	a	P	P	a
22	20DH1R0022	Edara Kyathi Nandini	P	P	P	P	a	P	P
23	20DH1R0023	Edla Mounika	P	P	P	P	P	P	P
24	20DH1R0024	Gaddam Shruthika	P	P	a	P	a	P	P
25	20DH1R0025	Gajjela Aishwarya	a	P	P	P	P	a	P
26	20DH1R0026	Gandham Sakruthi	a	P	P	P	P	P	P
27	20DH1R0027	Gopireddy Shiva Reddy	P	P	a	P	a	P	P
28	20DH1R0028	Guda Varsha	P	a	P	P	P	P	P
29	20DH1R0029	Gudoor Sri Vaishnavi	P	P	P	P	P	P	P
30	20DH1R0030	Gunduluru Latha	P	a	P	P	P	P	a
31	20DH1R0031	Gunhadoddi Pravalika	P	P	a	P	a	P	P
32	20DH1R0032	Hafsa	a	P	P	P	P	a	P
33	20DH1R0033	Hasnavada Venu Madhav	a	P	P	P	P	P	P
34	20DH1R0034	Jaligama Vinay Goud	P	P	a	P	a	P	P
35	20DH1R0035	Joshi Ruchitha	P	P	a	P	a	P	P
36	20DH1R0036	Juluri Sumana Sri	a	P	P	P	P	a	P
37	20DH1R0037	K Himanshu Reddy	a	P	P	P	P	P	P
38	20DH1R0038	Kajal Varma	P	P	P	a	P	P	a
39	20DH1R0039	Kalali Chandana	P	P	P	P	a	P	P
40	20DH1R0040	Kalidindi Jahnavi	P	P	P	P	P	P	P
41	20DH1R0041	KaveliChamanthi	P	P	a	P	a	P	P
42	20DH1R0042	Kokkonda Deepthi	a	P	P	P	a	a	P



43	20DH1R0043	Kolkuri Sravani	a	p	p	p	p	p	p	p	p
44	20DH1R0044	Kothakummari Tharun	p	p	a	p	p	a	p	p	p
45	20DH1R0045	Kunchalapalli Kanthi Latha	p	a	p		p	p	p	p	p
46	20DH1R0047	M Sai Priya	p	p	p	p	p	p	p	p	p
47	20DH1R0049	Machana Bhavani	p	a	p	p	p	p	p	p	a
48	20DH1R0050	Mandumula Vasavi	p	p	a	p	p	a	p	p	p
49	19DH1R0032	KalalSathyaprasad Goud	a	p	p		p	p	p	a	p
50	19DH1R0046	Manda Sai Sampreeth	a	p	p	p	p	p	p	p	p
51	20DH1R0051	Manga Sneha	p	p	a	p	p	a	p	p	p
52	20DH1R0052	Marrapu Tejaswani	p	p	a	p	p	a	p	p	p
53	20DH1R0053	Mekala Yellaiah	a	p	p	p	p	p	p	a	p
54	20DH1R0054	Methri Rohan Kumar	a	p	p	p	p	p	p	p	p
55	20DH1R0055	Mohd Muzaffar Ahmed	p	p	p	p	a	p	p	p	a
56	20DH1R0056	Mohammed Arshad	p	p	p	p	p	a	p	p	p
57	20DH1R0057	Mohammed Ayazuddin	p	p	p	p	p	p	p	p	p
58	20DH1R0058	Mohammed Shafi	p	p	a	p	p	a	p	p	p
59	20DH1R0059	Moulannunisa Begum	a	p	p	p	p	p	p	a	p
60	20DH1R0060	Muthyala Sneha	a	p	p	p	p	p	p	p	p
61	20DH1R0061	Mutluri Tejamahi	p	p	a	p	p	a	p	p	p
62	20DH1R0062	Nagarapu Sravya	p	a	p	p	p	p	p	p	p
63	20DH1R0063	Nalla Vyshnavi	p	p	p	p	p	p	p	p	p
64	20DH1R0064	NallamJavali Ratna	p	a	p	p	p	p	p	p	a
65	20DH1R0065	Nandala Yeshwanth Raj	p	p	a	p	p	a	p	p	p
66	20DH1R0066	Nayakwadi Pravalika	a	p	p	p	p	p	p	a	p
67	20DH1R0067	Nizampuram Bhavani	a	p	p	p	p	p	p	p	p
68	20DH1R0068	P Nikila Reddy	p	p	a		p	p	p	p	p



69	20DH1R0069	P Sai Kumar	P	P	a	P	a	P	P	P
70	20DH1R0070	P Tapasvi	a	P	P	P	P	P	a	P
71	20DH1R0071	Pabba Sathvika	a	P	P	P	P	P	P	P
72	20DH1R0072	Pathuri Venkat Koushik	P	P	P	a	P	P	P	a
73	20DH1R0073	Patolla Aravind Reddy	P	P	P	P	a	P	P	P
74	20DH1R0074	Peddagolla Jyothi	P	P	P	P	P	P	P	P
75	20DH1R0075	Peddareddygarai Sai Balaji Reddy	P	P	a	P	a	P	P	P
76	20DH1R0076	Pinlodi Sai Priya	a	P	P	P	P	P	a	P
77	20DH1R0077	Podishetty Manisha	a	P	P	P	P	P	P	P
78	20DH1R0078	Puli Swapna Priya	P	P	a	P	a	P	P	P
79	20DH1R0079	Putta Pravallika	P	a	P	P	P	P	P	P
80	20DH1R0080	Ramavath Sneha Latha	P	P	P	P	P	P	P	P
81	20DH1R0081	Rasthapuram Madhuri	P	a	P	P	P	P	P	a
82	20DH1R0082	Reddy shetty Lahari	P	P	a	P	a	P	P	P
83	20DH1R0083	S Pavani	a	P	P	P	P	P	a	P
84	20DH1R0084	Saniya	a	P	P	P	P	P	P	P
85	20DH1R0085	Shruthi Verma	P	P	a	P	a	P	P	P
86	20DH1R0086	Siddunuri Vikas Reddy	P	P	a	P	a	P	P	P
87	20DH1R0087	Sindhu Gunda	a	P	P	P	P	P	a	P
88	20DH1R0088	Singam Nikhitha	a	P	P	P	P	P	P	P
89	20DH1R0089	Singirikonda Pavithra	P	P	P	a	P	P	P	a
90	20DH1R0090	Sirigiri Upendranath Reddy	P	P	P	P	a	P	P	P
91	20DH1R0091	Sunnapu Meghana	P	P	P	P	P	P	P	P
92	20DH1R0092	Tangadapally Vinay Goud	P	P	a	P	a	P	P	P
93	20DH1R0093	Tekulapally Pavani	a	P	P	P	P	P	a	P



		Brundha								
94	20DH1R0094	Tharaka Bharath	p	p	a	p	a	p	p	
95	20DH1R0095	Vanshi Sindi	p	p	a	p	a	p	p	
96	20DH1R0096	Vanjari Indumathi	a	p	p	p	p	a	p	
97	20DH1R0097	Vinjarapu Satish	a	p	p	p	p	p	p	
98	20DH1R0098	Vuppala Sai Kiran	p	p	p	a	p	p	a	
99	20DH1R0099	Yalala Nikitha	p	p	p	p	a	p	p	
100	20DH1R00A0	Thammi Rupa	p	p	a	p	a	p	p	
101	21DH5R0002	Kairamkonda Manasa	a	p	p	p	p	a	p	



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B. V. RAJU INSTITUTE OF TECHNOLOGY**DEPARTMENT OF CHEMICAL ENGINEERING****CERTIFICATION COURSE ON CHEMICAL ENGINEERING FOR B PHARMACY STUDENTS**

Name Of the Faculty	Syllabus	Date& Timings (Tuesday series)
Dr.B.V.S. Praveen	Heat Exchangers: Enthalpy Balance, overall heat transfer coefficient, double pipe heat exchanger, shell and tube exchangers, plate heat exchangers, selection of heat exchangers, design: shell and tube heat exchanger design of evaporator.	1st Week of March-2022
Dr.A. V. Raghavendra Rao	Mass Transfer: Principles of distillation, absorption, extraction, crystallization, adsorption, humidification, and drying, design of plate column for distillation	1st Week of March-2022
Mr.K.S.N.V.Prasad	Air compressors and blowers: Types of compressors and blowers, selection of compressors.	2nd Week of March-2022
Dr. U. Appala Naidu	Reaction Engineering: Rate of reactions homogeneous and heterogeneous reactions, ideal and non-ideal reactors, Design equations and applications, catalysts, types of catalysts.	3rd Week of March-2022
Dr. T. Srinivas	Process Design: Flowsheet development P and ID development, Material balance, Material construction design temperature, design pressure process, data sheets.	4th Week of March-2022
Dr. Anup Ashok	Process Control: Transfers of first order and second order systems, interacting and non-interacting systems, open and closed loop systems, different types of controllers.	5th Week of March-2022
Dr. B. Bhaskar Mr. Sravani Sameera	Laboratory work:	6th Week of March-2022



Mrs. R. Srividya	<ol style="list-style-type: none"> 1.Determination of overall heat coefficient for 1:2 shell and d tube heat exchanger. 2.Drying characteristics in tray drier. 3.Isothermal bath reactor. 4.performance of packed bed reactor for given system. 5.Response of P, PI, PD, PID&ON/OFF Controllers in Control Tainer. 6. Interacting and Non-Interacting system. 	
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CERTIFICATION COURSE ON CHEMICAL ENGINEERING FOR B PHARMACY STUDENTS
SYLLABUS
IV/I SEMISTER, B PHARMACY

Course 1.

Heat Exchangers: Enthalpy Balance, overall heat transfer coefficient, double pipe heat exchanger, shell and tube exchangers, plate heat exchangers, selection of heat exchangers, design: 1: shell and tube heat exchanger design of evaporator.

Course 2.

Mass Transfer: Principles of distillation, absorption, extraction, crystallization, adsorption, humidification, and drying, design of plate column for distillation

Course 3.

Air compressors and blowers: Types of compressors and blowers, selection of compressors.

Course 4.

Reaction Engineering: Rate of reactions homogeneous and heterogeneous reactions, ideal and non-ideal reactors, Design equations and applications, catalysts, types of catalysts.

IV-II SEMISTER, B. PHARMACY

Course 5.

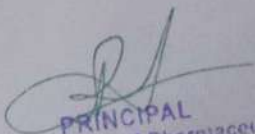
Process Design: Flowsheet development P and ID development, Material balance, Material construction design temperature, design pressure process, data sheets.

Course 6.

Process Control: Transfers of first order and second order systems, interacting and non-interacting systems, open and closed loop systems, different types of controllers.

Laboratory work:

1. Determination of overall heat coefficient for 1:2 shell and d tube heat exchanger.
2. Drying characteristics in tray drier.
3. Isothermal bath reactor.
4. performance of packed bed reactor for given system.
5. Response of P, PI, PD, PID & ON/OFF Controllers in Control Tainer.
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