



YOGI VEMANA UNIVERSITY COLLEGE
Vemanapuram, KADAPA - 516003

Prof. G.Samba Siva Reddy
Principal

YVUSDC/Circular8/2020

21st January 2020

CIRCULAR

Andhra Pradesh State Skill Development Corporation (APSSDC) and Yogi Vemana University Skill Development Center is conducting 60 Hours training programme to the Life Science Department students (Microbiology, Biochemistry, Biotechnology, Biotechnology & Bioinformatics, Chemistry, Environmental Sciences). Students who are interested (both first and second years) can attend the programme from *27 January 2020 (9AM to 10AM) onwards*. The Heads/Coordinators of the departments are hereby directed to inform the students and place this in the notice board.

Programme name: Pharma Marketing Executive

Venue: E-Class room2 (room number 180), Sir C. V. Raman Science building.

Trainer: G.Manohar from Andhra Pradesh State Skill Development Corporation

Please contact for further information.

- Dr. M. Subhosh Chandra, Coordinator, Department of Microbiology (Mobile No. 9493372743)
- K. SrinivasRao, Asst. Professor, Department of MCA (Mobile No. 9618712660)


PRINCIPAL 21/1/20
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2. P.A. to Rector, Y.V. University, Kadapa for information
3. P.A. to Registrar, Y.V. University, Kadapa for information.
4. The Heads/Coordinators of respective Departments for necessary action.
5. Coordinator, YVU Skill Development centre


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Pharma Marketing Executive – Training Curriculum

This Course is designed to train Students on the Basics of Pharmaceuticals and Marketing Techniques. Course provides information on all relevant aspects of Pharmaceuticals and Important marketing techniques required to improve sales. Course Structure is designed to impart practical knowledge to students

1. Introduction to Pharmaceutical Industry (6 Hours)

a) Historical Background of Prescription b) The Pharmaceutical Industry (Global and India Introduction) c) Health Scenario (Global and India) d) Pharmaceutical Industry Background (Global and India Introduction) e) Present Pharmaceutical Industry Scenario f) Pharmacy Outreach (Global and India Introduction) g). Pharmaceutical Marketing Scenario (Global and India Introduction)

2. Pharma Education (9 Hours)

a. Basics of Pharmaceuticals b) Types of Drugs and their understanding c) Introduction to Medical Terminology d) The Prescription and prescribing process e) The prescribing decision: Rational or Emotional? (Marketing executive prescribing drugs) f) Prescription behavior models

3. Pharmaceutical Marketing In India (6 Hours)

a. Introduction b) The Pharmaceutical Marketing Models c) The 4Ps of Pharmaceutical Marketing (Product, Price, Place and Promotion) d) Marketing Environment Introduction e) Behavior and trends of physicians, patients and other stakeholders f) Marketing Strategies Options

4. Understanding Cost of Pharmaceutical Marketing (6 Hours)

a. Introduction to Marketing, Pricing and Revenue b) Marketing cost as a percentage of revenue c) Medical representatives: The major cost factor d) Advertising and promotional information expenses

5. Skill-wise Training Modules (9 Hours)

a. Communication Skills b) Listening & Selling Skills c) Distribution & System Handling d) Technical Skill training e) Do's and Don'ts during sales process

6. Digital Pharma Marketing (9 Hours)

a. Key Industry changes b) Online Behavior and trends of physicians, patients and other stakeholders c) Competitive Assessment d) Internal Analysis (E-maturity of the store) e) Technology trend Analysis f) Multichannel Sales Strategies g) Simulation Games

7. Impact Measurement and Analysis (6 Hours)

a. Factors that determine ROI b) How to measure Reach & Advocacy c) How to measure engagement d) How to measure conversion e) How to use digital marketing tools

8. Rules and Regulations in Pharma Marketing (6 Hours)

a. Intellectual property rights b) Legal and Regulatory Framework of Pharmaceutical Industry c) FDA-Regulatory Rules d) Sales Licensing

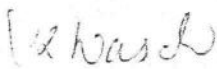
9. Conclusion (3 Hours)

a. Course rewind b) Feedback



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94	PATHI SUJITHA	M.Sc., Chemistry (Organic Chemistry)	/	/	a	/	/	a	Y	a	/	/	/	/	Y	/	/	a	/	/	Y	/	/	a	/	/	Y	/	/	a	/	/	Y	/	/	a	/	/
95	KOMMISSETTY HARIKA	M.Sc., Environmental Science	/	/	/	/	/	/	A	/	/	/	/	/	A	/	/	/	/	a	A	/	/	/	/	/	A	/	/	/	/	/	A	/	/	/	/	
96	PANGA VIMALA DEVI	M.Sc., Environmental Science	/	/	/	/	/	/	a	/	/	/	/	/	a	/	/	/	/	a	P	/	/	/	/	/	P	/	/	/	/	/	P	/	/	/	/	
97	PILLINDLA SATHISH KUMAR	M.Sc., Environmental Science	a	/	/	/	/	/	N	/	/	/	/	/	N	/	/	/	/	a	N	/	/	/	/	/	N	/	/	/	/	/	N	/	/	/	/	
98	PULLAGURA NARENDRA	M.Sc., Environmental Science	/	/	/	/	/	/	U	/	/	/	/	/	U	/	/	/	/	a	U	/	/	/	/	/	U	/	/	/	/	/	U	/	/	/	/	
99	THEJARLA VANDANA	M.Sc., Environmental Science	/	/	/	/	/	/	S	/	/	/	/	/	S	/	/	/	/	a	S	a	/	/	/	/	S	a	a	/	/	/	/	/	/	/		
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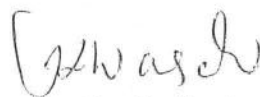

Co-Ordinator
Skill Development Centre(SDC)
Yogi Vemana University,
Vemanapuram, Kadapa,
Andhra Pradesh

Report on Pharma Marketing Executive programme
from 27-01-2020 to 29-02-2020

As per the circular from Principal, dated 21-01-2020, Andhra Pradesh State Skill Development Corporation (APSSDC) and Yogi Vemana University Skill Development Centre jointly conducted 60 Hours training programme on “**Pharma Marketing Executive**” from 27-01-2020 to 29-02-2020 (9.00 AM to 10.00 AM and 5.00 PM to 6.00 PM) for the students of Microbiology, Biochemistry, Biotechnology, Biotechnology & Bioinformatics, Chemistry and Environmental Sciences departments. The main objective of the programme was to impart practical knowledge to students on various key aspects of Pharmaceuticals and Marketing Techniques. Students evinced keen interest in attending the classes and they were provided awareness on all relevant Pharmaceuticals and Important marketing techniques required to improve sales (Course Curriculum was enclosed). Mr. G. Manohar from Andhra Pradesh State Skill Development Corporation (APSSDC) and the Coordinator, Yogi Vemana University Skill Development extended all possible support for this endeavor. About **100** students attended the Pharma Marketing Executive programme classes and were benefited. Attendance of the students of aforementioned programme is attached in the prescribed format.



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Co-Ordinator
Skill Development Centre(SDC)
Yogi Vemana University,
Vemanapuram, Kadapa,
Andhra Pradesh

YOGI VEMANA UNIVERSITY

Vemanapuram, KADAPA-516003, Andhra Pradesh, INDIA

<http://www.yogivemanauniversity.ac.in>

Prof. A.G. Damu

Department of Chemistry

Nodal Officer

Pratyancha-2017



Phone: +91-8562-225410 (Off.)

+91-9177888961 (Mobile)

FAX : +91-8562-225419

E-mail: agdamu01@gmail.com

19th January 2018

CIRCULAR

I am by direction to inform you that Andhra Pradesh State Skill Development Corporation (APSSDC), Life Sciences Sector Skill Development Council (LSSSDC) and CSIR-Indian Institute of Chemical Technology (CSIR-IICT) jointly planned to organize a skill development programme namely "Pratyancha", on advanced pharma and biotechnology for a tenure of six months and Yogi Vemana University, Kadapa was selected as one of the nodal centers. The program will help the student to get a suitable and respectable employment in pharmaceutical and life science sectors. All the Heads/Coordinators of the departments are requested to inform the students and give wide publicity about the importance of the programme so as to make students get benefited and place this circular in the notice board.

Name of the Programme : **Pratyancha**

Duration of the Programme: **February to July 2018**

Fee Structure : **Rs. 20000/- Per student**

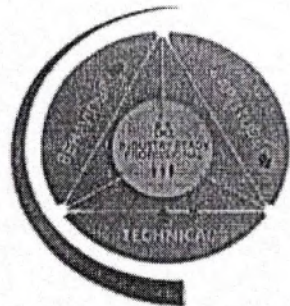
Venues: **Yogi Vemana University, Kadapa and CSIR-IICT, Hyderabad**

Prof. A.G. Damu
Nodal Officer
Pratyancha-2017
Yogi Vemana University
KADAPA.

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Pratyancha
School for Life Sciences

Professional Skills Training Course Curriculum
BIOTECHNOLOGY & PHARMACEUTICAL SCIENCES

In Partnership with



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Introduction

The Professional Skills Course in Biotechnology or Pharmaceutical Sciences is designed to equip science graduates (B Tech, M Tech or M Sc) with the necessary technical skills and general competencies that would allow them to transition smoothly from academics into an industrial setting. This will also reduce the time required by businesses to properly train entry-level candidates to do the job they were hired for.

The Course is a mix of theory lessons (classroom-based) and practical, hands-on training through independent small projects (laboratory-based).

As shown below (Fig. 1), the Course consists of (a) COMMON, COMPULSORY Modules and (b) ELECTIVE MODULES in either Biotechnology OR Pharmaceutical Sciences.

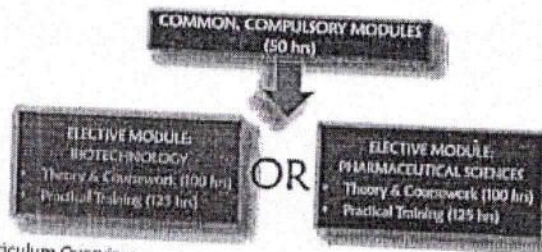


FIG. 1: Curriculum Overview

A detailed description of the modules and their content follows in the sections below.

Common Modules (CS 01 – CS 05)

The Common Modules have been designed to enhance some General Technical Skills as well as Competencies.

General Technical Skills necessary for a professional in Biotechnology and/or Pharmaceutical Sciences include an understanding of Regulatory & Intellectual Property Rights, Clinical Trials and Biostatistics processes, Analytics and Quality Assurance and Health & Safety Assurance. These Skills are delivered through Modules CS 01 – CS 04.

Competencies are behavioural attributes that are felt to be key to effective performance within a particular job. Thus, Competencies describe the capability or ability to do a job. Module CS 05 will be delivered as a series of 1-day Workshops conducted by well-known experts from industry.

Fig 2 shows the overall content of the Common Modules.

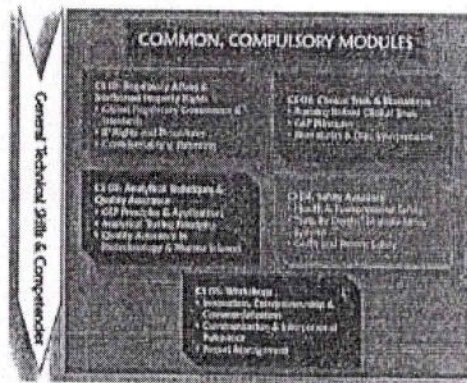


FIG 2: Common Modules

1. **CS 01: Regulatory Affairs & Intellectual Property Rights (IPR)**
 - **Devices, Drugs, Intermediates & Generics: An Overview of Regulatory Requirements.** Basic introduction to Indian & Global Regulatory requirements. Allows students to develop a strong understanding of how regulatory affairs. Discusses laws, laws v. regulations; historical development of regulations. Functions and Roles of Regulators and Industry Scientists/Personnel. Case Studies are used to enhance theoretical understanding.
 - **Regulating Biotechnology & Biopharmaceutical Products.** Differences between Biotechnologically-derived products and conventional small molecules. Regulatory requirements for biotech/biopharma products & processes. Registering a Biotech Product successfully. Creating a successful CTD (Complete Technical Dossier). Market authorizations rules and procedures in USA, Europe, India, RoW. Specific Case Studies will include, for example, monoclonal antibodies, vaccines, blood products, targeted-delivery molecules. GMOs and their regulation.
 - **Intellectual Property Rights (IPR) in Biotechnology.** Understanding the IPR environment: Patents; Trademarks; Trade Secrets; Copyrights; Plant Breeders' Rights; Farmers Rights; Biodiversity Protection Issues. IPR & business needs. IPR Rules and Regulations in Europe, USA, India, RoW. Product v. Process Patents. Copyrights v. IPR. How to protect proprietary bioinformatics material (data & software). Introduction to Trade-Related Aspects of Intellectual Property Rights (TRIPS). Convention on Biological Diversity (CBD) & IPR.


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OUTCOME: Upon successful completion of module CS Q1, students are expected to have a basic understanding of the technical issues and processes related to regulatory affairs and IPR in the Biotechnology Industry.

2. **CS Q2: Analytical Techniques & Quality Assurance (QA)**

- Analytical Techniques in Biotech/Biopharma.
Identification & purification of "new" biotechnology-derived products; detection and quantification of new substances, their breakdown products and metabolites at trace concentrations. Theoretical & practical understanding of Spectroscopic & Photometric Methods [UV-VIS, Infrared, MS, NMR, AA, Electron Spin Resonance, Fluorescence, etc.]; Chromatographic Methods; Bioassays; Molecular Biology Methods; Bioinformatics Methods.
- Quality Assurance in Biotech/Biopharma.
Data gathering, storage interpretation & integrity. Validation of experimental protocols. Compliance requirements for experimental results. Documentation, Standard Operating Procedures (SOPs), Protocols, etc. QA tools and techniques. Good Laboratory Practices (GLP) requirements for Pre-Clinicals, Clinical & Field Trials. Auditing to GLP standards. Bioethics in Clinical Trials.

Total Quality Management (TQM) & Good Manufacturing Practice (GMP) requirements in manufacture, storage, distribution and use. QA of 3rd Party providers. QA v. Quality Control (QC). Setting up QA/QC Inspections & Audits; external certifications (e.g., ISO). Case studies on Cost and impact of Quality Non-compliance.

OUTCOME: Upon successful completion of module CS Q2, students are expected to have working knowledge of the importance and use of Analytical Techniques in Biotechnology. They should fully understand the importance of compliance and data integrity; and should have a basic understanding of the requirement to set up Quality Assurance Systems (GLP in R & D settings, GMPs and TQM in manufacturing and supply chain settings).

3. **CS Q3: Clinical Trial Management & Biostatistics in Biotech/Biopharma**

- Clinical Trial Management.
Basics of Clinical Trial Operations. Pre-Clinical Studies. Basics of Pharma and Drug discovery. Pharmacogenomics basics.
Clinical Study Design. Types of Clinical experiments or studies. Cohorts, longitudinal studies, etc. Documentation and storage. Clinical Monitoring. Contract Research Organisations (CROs) and clinicals.
Bioethics & Informed Consent. Study Participant Safety & Confidentiality. Adverse Reactions.

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- Data Management & Biostatistics.

Data collection and reporting; forms and protocols; confidentiality; data audit trails. Clinical data repositories, Patient diaries and monitoring. Introduction to Statistical Principles and Biostatistics. How to interpret clinical and experimental data. Risk-benefit and significance analysis. Reporting results and publishing.

OUTCOME: Upon successful completion of module CS 03, students are expected to understand (at a basic level) how Clinical & Pre-clinical Trials are run. Students should be able to understand the importance of accurate data collection, Interpretation and reporting. Students will gain a basic understanding of the use of the proper (bio)statistical methods to analyse clinical data.

NOTE: All Clinicals are strictly carried out as per GLP. GLP is fully covered in Module CS 02, hence it is not included here.

4. CS 04: Safety Assurance in Biotech/Biopharma

- "Safety by Design" (for Products) in Manufacture and Supply.

Assuring Safety in Manufacture. Prerequisites & GMPs. Hygiene and Food (Product) Safety in Manufacture, Distribution, and Use. QC techniques and methods to monitor compliance. Regulatory compliance, auditing and certification.

- Occupational Health & Safety.

Policies and Protocols; Occupational Health Training. Emergency and First-Aid training. Crisis committees and emergency response preparedness. Testing of crisis protocols and their effectiveness. Employee awareness & buy-in. Legal requirements, compliance and auditing.

OUTCOME: Upon successful completion of module CS 04, students are expected to understand (at a basic level) how to set up and operate Safety Assurance systems in manufacture, distribution and use. Students will appreciate the need to design and test integrated safety systems and prepare emergency crisis response protocols.

5. CS 05: Workshops

In order to help students develop Professional Competencies in the Biotechnology World, 1-day Workshops will be conducted on the following topics. Workshops are mandatory to attend and will help immensely in complementing technical skills with practical, real-world capabilities.

- Innovation, Entrepreneurship & Commercialisation.

The R & D (Innovation) Process. Ideation and how to nurture an idea to a real product; proof of principle, proof of concept studies. Management of the Innovation process.



How to become a successful entrepreneur. Developing empathy & leadership qualities and business acumen as an entrepreneur. Venture funding and processes. Developing a business plan and marketing. HR basics and policies. The process of commercialisation of a product. Opportunities; IPR and patent protection; commercialisation plans; building a team and executing plan.

- Project Management.
Principles of project management. Integrated Project Management (IPM) protocols. Carrying out Project Life Cycle Assessments. Use of PM Tools (e.g., Microsoft Project or Basecamp). Risk Management in Projects. Training and Certification of Project Managers.
- Interpersonal Behaviour & Communication Skills.
How to become a better leader and person. Empathy in the workplace. Personal development through the use of mindfulness introspection and meditation tools. Effective communication. Being a good listener; open-minded; empathy; respect; sensitive to others needs. Clarity and conciseness.

OUTCOME: Upon successful completion of the Workshops in module CS 05, students will be better prepared with the professional competences to deal with day-to-day business matters. These "soft skills" will help enhance and complement technical skills. Students will also gain a better appreciation for the commercial aspects of biotechnology and how to get products to market. If they so choose, students will understand how to become a successful entrepreneur – what are the leadership qualities that are necessary; the business knowledge that is required, etc.

BIOTECHNOLOGY Elective Modules (BT 01 – BT 05)

After students have completed the Compulsory Modules (CS 01 – CS 05), they will have to select either the Biotechnology Elective Modules (BT 01 – BT 05) OR the Pharmaceutical Sciences Elective Modules (PS 01 – PS 05).

The Biotechnology Modules cover all aspects of the "new" Biotechnology as it is applied to Health and Pharma. The content of the Elective Modules has been designed to provide the domain-specific functional skills necessary for new employees. Thus, there will not be a deep exploration of the science of Biotechnology.

Fig 3 shows the overall content of the Biotechnology Modules.


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FIG 3: BIOTECHNOLOGY Elective Modules

1. BT 01: Microbial Biotechnology

- Strain Development & Microbial Engineering.
Basics of microbial identification and strain development. Genomic techniques for identification and characterization. Recombinant Technologies. Mutation and selection for desirable traits. Physiological and Metabolic Engineering of strains. Storage, stability, and protection of proprietary strain collections.
- Microbial Metabolic Pathways & Regulation.
Practical applications of microbial metabolic pathways. Types of regulatory networks, molecules and how to exploit them. Creation and interpretation of metabolic maps. Converting biochemical/metabolic pathway analysis to biotechnological applications.
- Fermentation Technology & Scale-up Processes.
Introduction to fermentation technology. Fermenter & Bioreactor Design principles. Isolation and characterisation of microbial products (enzymes, intermediates, actives).

OUTCOME: Upon successful completion of module BT 01, students are expected to have working knowledge of biotechnological processes using microorganisms. Students will learn how to translate understanding of microbial metabolic pathways into viable industrial biotechnology applications. Students will have basic understanding of how fermenters and bioreactors are designed and operated.


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2. BT 02: Bioprocessing & Downstream Processing

- Bioprocess Engineering Principles.

Basic principles of bioprocess calculations and operations. Material & Energy balances for processes under various conditions (flow v. non-flow). Medium design and optimisation. Heat transfer principles, etc. Statistical techniques used in bioprocessing.

- Bioreactor Design.

Types of bioreactors. Bioreactor accessories and operations. Modes of operation of bioreactors. Optimizing designs of bioreactors. Factors that affect bioreactor performance. Biomass v. bioproducts.

- Enzyme Technology.

Enzymes as biocatalysts. Characteristics of enzymes and their regulation. Kinetics of enzyme catalysed reactions. Technologies for purification of enzymes (separation, Immobilisation, etc.). Reactors for Enzyme Technology applications. Different types of industrial enzymes. Enzymes and drug discovery - Lead Compound, Structure based drug design, combinatorial chemistry, High-throughput screening.

- Downstream Processing & Separation Technology.

Unit operations in Downstream processing. Characteristics of biomolecules and their differences. Processing flow sheets and examples. Principles of extracting products from cell cultures. Intracellular v. extracellular product.

Introduction to separation techniques in bioprocessing – (ultra)filtration, centrifugation, precipitation, adsorption, reverse osmosis, extraction techniques, etc. Chromatography. Stabilisation of bioproducts.

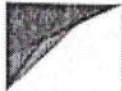
OUTCOME: Upon successful completion of module **BT 02**, students are expected to well prepared for hands-on work on bioprocesses. Students will have a basic theoretical understanding of biomolecules and separation technologies, reactor design and factors that contribute to successful scale-up of processes.

3. BT 03: Agri & Marine Biotechnology

- Transgenic & Tissue Culture.

Techniques in Plant Cell Biology. Tissue Culture Basics. Molecular Biology and Cytogenetics principles. Principles of Plant Breeding. Plant cell culture and transgenic culture. Principles of transformation of plant cells. Techniques for gene delivery to plants. Screening and selection of transformants.

Tissue culture laboratory introduction. Aseptic cultures and Micropropagation. Different types of tissue culture techniques. Protoplast isolation and regeneration. Handling and preparation of cell culture media, facilities.



- Plant Stress Biology & Metabolic Engineering.
Biotic and Abiotic Stresses. Adaptation and resistance responses. Signal transduction in plant cells. Screening for stress markers and using them for improvement of crops and plants through biotechnological means.
Introduction to substrate-product relationships in plant metabolic pathways. Understanding of metabolic networks. Purification and cloning of enzymes, metabolic intermediates. Development of recombinant and molecular biology techniques to engineer metabolic pathways.
- Microalgae – Biology & Applications.
Basic understanding of microalgae, their physiology, metabolism and environment. Role of algae in the environment, human health and climate change. Microalgae as a rich source of health and wellness actives. Large-scale cultivation techniques for microalgae. Introduction to biotechnology of microalgae and advances in using algae for actives, as biomass, as biofuels, etc.
- Bioactive Marine Products.
Overview of marine biotechnology. Commercially important marine species – algae, aquaculture, etc. Natural products, bioactives and high-value chemicals from marine sources. High-throughput screening techniques. Biotechnological applications of marine sources.

OUTCOME: Upon successful completion of module BT 03, students are expected to have working theoretical knowledge of agri and marine biotechnology, the techniques used for deriving high-value active products from these sources. Students will have an understanding of techniques for improvement of plant varieties and the application of marine microalgae in biotechnology.

4. **BT 04: Genome Technology & Bioinformatics**
- Genome, Transcriptome & Metabolome.
Principles and technologies to understand and study the Genome, Transcriptome and Metabolome. Techniques to decipher regulatory networks within the biome. From DNA, RNA to whole cell systems. Techniques for high-throughput sequencing, characterisation (e.g., annotation of genomes, functional genes, gene-trait matching, etc.). Understanding of proteomics and Systems Biology Principles.
 - Genome Engineering.
Introduction to Genome Engineering, Principles of use of CRISPR, TALEs and RNAi techniques for genome manipulation. Targeted genome modifications and their use in crop plant improvement. Analytical techniques for assay of genome engineering products.



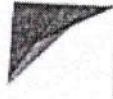
- Bioinformatics & Computational Biology
Biological Data and Database Management. Sequence analysis. Data Mining and Machine Learning. Pattern recognition. Bioinformatics introduction. Software and tools for bioinformatics. Sequence Informatics and databases. Molecular phylogenetics. Proteomic tools and databases.

OUTCOME: Upon successful completion of module **BT 04**, students are expected to have basic understanding of computational biology and bioinformatics. They will become aware of the applications and tools available in this area. Students can further build on this basic knowledge through hands-on exposure to the applications of bioinformatic tools.

5. **BT 05: Biotechnology in the Pharma Sector**

- Recombinant Proteins & Gene Therapy Technologies.
Principles of recombinant DNA and protein technology. Understanding cloning, vectors, use of enzymes in genetic engineering. PCR techniques, sequencing, mutagenesis techniques. Gene transfer techniques. Techniques for assay of genes, proteins. Biosafety in recombinant technology applications. Monoclonal antibodies.
- Biotechnological Drug Development.
Scientific principles for biotechnology in pharmaceutical drug development. Immunotherapy products using biotechnology. Targeted discovery of bioactive proteins, peptides and combinations. Principles of gene therapy. Stem Cell Technologies.
- Drug Evaluations, Pharmacogenomics, & Diagnostics.
Application of metabolic data in drug evaluations. Importance of clinical pharmacokinetics. Human genomic variation and drug efficacy. Personalised medicine. Legal and regulatory requirements.

OUTCOME: Upon successful completion of module **BT 05**, students are expected to have basic understanding of how advances in biotechnology are affecting the discovery and production of bioactives. Students will gain an appreciation for the use of novel sources (e.g., marine) of new actives and will also learn cutting-edge technologies for the manipulation of crop plants.



PHARMACEUTICAL SCIENCES Elective Modules (PS 01 – PS 05)

After students have completed the Compulsory Modules (CS 01 – CS 05), they will have to select either the Biotechnology Elective Modules (BT 01 – BT 05) OR the Pharmaceutical Sciences Elective Modules (PS 01 – PS 05).

The Pharmaceutical Sciences Modules cover the skills required in "conventional" pharmaceutical and drug discovery, and the technologies associated with them. The content of the Elective Modules has been designed to provide the domain-specific functional skills necessary for new employees. Thus, there will not be a deep exploration of the Pharmaceutical Science.

Fig 4 shows the overall content of the Pharmaceutical Sciences Modules.

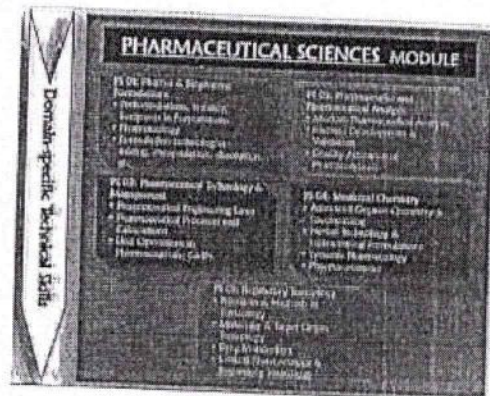


FIG 4: PHARMACEUTICAL SCIENCES Elective Modules.

1. PS 01: Pharma & Biopharma Formulations
 - Preformulations, Stability, Excipients in Formulations.
Understanding of physico-chemical properties of new drugs; differences in dosage forms; solubility and stability (aqueous, organic). Techniques for the study of crystal properties and polymorphism - DSC, TGA, PXRD; Optical microscopy, hot stage microscopy. Excipient compatibility studies, Preformulation stability studies.
Powder properties – compaction, compression, etc. Stability testing of drugs and formulations. Quality of Design considerations.
 - Pharmacology.
Basic principles of biochemistry, biophysics and physiology in relation to drug action and interactions, metabolism, toxicity, etc. Pharmacokinetic principles in clinical

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practice. Adverse events and reactions. Regulatory considerations (USA, Europe, India, RoW) for approval of new drugs. Principles of toxicology.

- Formulation Technologies.
Principles of formulation. Techniques used - mixing, encapsulation, dissolution, etc. How to turn an active substance into a safe, ready-to-use formulation. Polymer technologies for delivery. Excipient compatibility. Packaging and stability. Development, validation and use of analytical methods for efficacy. API Characterisation. Process optimization.

OUTCOME: Upon successful completion of module PS 01, students are expected to have working knowledge of pharma formulation development. They should be able to understand and predict interactions between Ingredients and be able to understand how to turn a new substance into a safe ready-to-use product.

2. **PS 02: Pharmaceutical Technology & Management**

- Pharmaceutical Engineering Laws.
Drug morphology and analytics, thermodynamics and flow mechanics, measurement, and control engineering. Heat transfer principles and measurements. Flow Mechanics and fluid flow. Laws governing size reduction. Theory of crystallisation, drying evaporation, etc.
- Pharmaceutical Processes and Calculations.
Methodologies to analyse and scale-up pharma processes. Quantitative approaches to process design. Sterilization processes, sanitation, aseptic manufacture. Liquid mixing calculations. Mathematical models to analyse performance of equipment and process. Operation of Equipment used – mills, manometers, pitot tubes, etc. Size separation technologies.
- Unit Operations in Pharmaceuticals; GMPs
Principles of milling, drying, compression, coating and other unit operations. Quality parameters and processing routes. Granulation and compression. Principles of GMPs and Process Controls. Quality Systems and consumer expectations. Regulatory framework – USA, Europe, India, RoW. Validation and compliance. Auditing.

OUTCOME: Upon successful completion of module PS 02, students are expected to have working knowledge of how pharmaceutical products are made. Specifically, engineering principles, operation of equipment and control of unit operations. Students are expected to be fully aware of regulatory requirements (cGMP and similar) and should be capable of functioning in compliance with such regulations.


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PRATYANCHA PROGRAMME
For Chemistry, Bio Chemistry, Microbiology,
Bio-Technology Students(Pharmacy Related)
Academic year 2017-2018
Organized by Yogi Vemana University



వైవీయూలో ఘనంగా 'ప్రత్యంచ' ప్రారంభం

- కడప నోడల్ కేంద్రం నుంచి 60 మందికి శిక్షణ
- నిపుణులైన మానవ వనరుల అవసరం ఉంది : జేసీ-2



వైవీయూ :

మాట్లాడుతున్న జేసీ-2 శివారెడ్డి, వీసీ ఆచార్య అధిపతి రామచంద్రారెడ్డి, హాజరైన అధ్యాపకులు, విద్యార్థులు

యోగవేమన విశ్వవిద్యాలయంలో నూతనంగా ఏర్పాటు చేసిన అధునాతన వైద్యబ్యాచివృద్ధి కోర్సు 'ప్రత్యంచ' ను శనివారం ప్రారంభించారు. ఏపీ వైద్యబ్యాచివృద్ధి సంస్థ, కౌన్సిల్ ఫర్ సైంటిఫిక్ అండ్ ఇండస్ట్రియల్ రీసెర్చ్, ఇండియన్ ఇన్స్టిట్యూట్ ఆఫ్ కెమికల్ టెక్నాలజీ, లైఫ్ సైన్సెస్ సెంటర్ డెవలప్ మెంట్ సెంటర్ సంయుక్త ఆధ్వర్యంలో ఏర్పాటు చేసిన ఈ కోర్సు ప్రారంభోత్సవ కార్యక్రమానికి ప్రముఖులు విచ్చేసి ప్రసంగించారు.

కార్యక్రమానికి ముఖ్యఅతిథిగా విచ్చేసిన జిల్లా జాయింట్ కలెక్టర్-2 శివారెడ్డి మాట్లాడుతూ రానున్న రోజుల్లో ప్రపంచానికి కావాల్సిన 20 శాతం నిపుణులైన మానవ వనరులను భారతదేశం అందిస్తుందన్నారు. వైస్ చాన్సలర్ ఆచార్య అధిపతి రామచంద్రారెడ్డి మాట్లాడుతూ రాష్ట్రంలో నాలుగు సెంటర్లలో ప్రత్యంచ కార్యక్రమం రూపొందించగా అందులో వైవీయూకు ఐదు అవీంచడం సంతోషంగా ఉందన్నారు. వైవీయూలోని నోడల్ సెంటర్

ద్వారా 60 మంది విద్యార్థులను ఎంపిక చేసిన వారికి శిక్షణను అందిస్తారని తెలిపారు. ఏపీ బ్యాచివృద్ధి ఆన్ పార్కర్స్ అండ్ బయోటెక్నాలజీ కన్సల్టెంట్స్ కంకర్ ప్రసాద్ మాట్లాడుతూ రానున్న రోజుల్లో పార్కర్స్ బయోటెక్నాలజీ రంగం రాష్ట్రంలో శరవేగంగా అభివృద్ధి చెందే అవకాశాలు ఉన్నాయన్నారు. సీఎస్ఐఆర్-ఐసీఐటీ సీనియర్ ప్రధాన శాస్త్రవేత్త డా. చిన్నరాజు, పార్కర్స్ విప్లవోర్స్ కౌన్సిల్ ఆఫ్ ఇండియా డైరెక్టర్ జనరల్ రవిదీపయ్యబాస్కర్

భారత ప్రభుత్వ బయోటెక్నాలజీ విభాగం సీనియర్ సలహాదారు డా.టి.ఎస్.రావు, నాబార్డ్ మాజీ చైర్మన్, మేనేజింగ్ డైరెక్టర్ పి.వి.పి.రామారావు, శ్రీ బయోటెక్ డైరెక్టర్ డా. కె.ఆర్.కె. రెడ్డి, అనంతవరం లేపాక్షి బయోటెక్ పార్క్ ప్రతినిధి డా. సుధాకర్ కొండా మాట్లాడారు. కార్యక్రమంలో రిజిస్ట్రార్ ఆచార్య కె. చంద్రయ్య, ప్రిన్సిపాల్ ఆయనశాస్త్ర విభా గాదిపతి ఆచార్య ఏజ్ దాము పాల్గొన్నారు.

సాక్షి Sun. 28 January 2018 <https://epaper.sakshi.com/c/39122672>

ప్రపంచానికి నిష్ణాతులను భారత్ అందిస్తోంది

వైవీయూలో ప్రత్యంచ ప్రారంభ కార్యక్రమంలో జేసీ-2 శివారెడ్డి



జేసీ-2 వైవీయూలో ప్రత్యంచ ప్రారంభ కార్యక్రమంలో జేసీ-2 శివారెడ్డి మాట్లాడుతూ ప్రపంచానికి నిపుణులను భారత్ అందిస్తోంది. ప్రపంచానికి నిపుణులైన మానవ వనరులను భారతదేశం అందిస్తుందన్నారు. వైస్ చాన్సలర్ ఆచార్య అధిపతి రామచంద్రారెడ్డి మాట్లాడుతూ రానున్న రోజుల్లో పార్కర్స్ బయోటెక్నాలజీ రంగం రాష్ట్రంలో శరవేగంగా అభివృద్ధి చెందే అవకాశాలు ఉన్నాయన్నారు. సీఎస్ఐఆర్-ఐసీఐటీ సీనియర్ ప్రధాన శాస్త్రవేత్త డా. చిన్నరాజు, పార్కర్స్ విప్లవోర్స్ కౌన్సిల్ ఆఫ్ ఇండియా డైరెక్టర్ జనరల్ రవిదీపయ్యబాస్కర్

భారత ప్రభుత్వ బయోటెక్నాలజీ విభాగం సీనియర్ సలహాదారు డా.టి.ఎస్.రావు, నాబార్డ్ మాజీ చైర్మన్, మేనేజింగ్ డైరెక్టర్ పి.వి.పి.రామారావు, శ్రీ బయోటెక్ డైరెక్టర్ డా. కె.ఆర్.కె. రెడ్డి, అనంతవరం లేపాక్షి బయోటెక్ పార్క్ ప్రతినిధి డా. సుధాకర్ కొండా మాట్లాడారు. కార్యక్రమంలో రిజిస్ట్రార్ ఆచార్య కె. చంద్రయ్య, ప్రిన్సిపాల్ ఆయనశాస్త్ర విభా గాదిపతి ఆచార్య ఏజ్ దాము పాల్గొన్నారు.

అంధ్రజ్యోతి Sun. 28 January 2018 <https://epaper.ahjanandhrjyoti.com/c/39122672>

ఇండియా ప్రపంచ దేశాలకు నిపుణులను తయారు చేస్తుంది

- కడప కేంద్రం నుండి 60 మంది విద్యార్థులకు శిక్షణ, ఏడుగురికి స్పాన్సర్షిప్
- రానున్న రోజుల్లో మన దేశంలోనే అత్యధిక మంది నిపుణులు -జేసీ 2 శివారెడ్డి

కార్యక్రమం 20 వేల నిపుణులను తయారుచేసే లక్ష్యాన్ని అందించేందుకు భారత్ ప్రపంచానికి నిపుణులను అందిస్తోంది. ప్రపంచానికి నిపుణులైన మానవ వనరులను భారతదేశం అందిస్తుందన్నారు. వైస్ చాన్సలర్ ఆచార్య అధిపతి రామచంద్రారెడ్డి మాట్లాడుతూ రానున్న రోజుల్లో పార్కర్స్ బయోటెక్నాలజీ రంగం రాష్ట్రంలో శరవేగంగా అభివృద్ధి చెందే అవకాశాలు ఉన్నాయన్నారు. సీఎస్ఐఆర్-ఐసీఐటీ సీనియర్ ప్రధాన శాస్త్రవేత్త డా. చిన్నరాజు, పార్కర్స్ విప్లవోర్స్ కౌన్సిల్ ఆఫ్ ఇండియా డైరెక్టర్ జనరల్ రవిదీపయ్యబాస్కర్

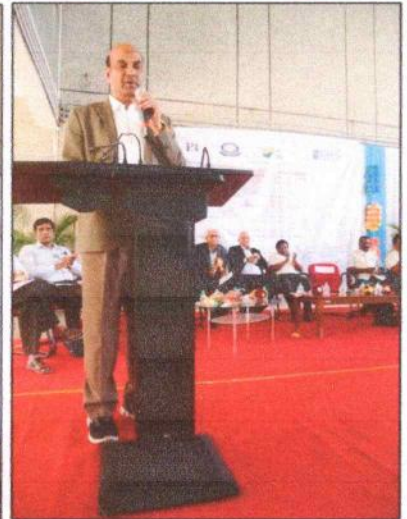


భారత ప్రభుత్వ బయోటెక్నాలజీ విభాగం సీనియర్ సలహాదారు డా.టి.ఎస్.రావు, నాబార్డ్ మాజీ చైర్మన్, మేనేజింగ్ డైరెక్టర్ పి.వి.పి.రామారావు, శ్రీ బయోటెక్ డైరెక్టర్ డా. కె.ఆర్.కె. రెడ్డి, అనంతవరం లేపాక్షి బయోటెక్ పార్క్ ప్రతినిధి డా. సుధాకర్ కొండా మాట్లాడారు. కార్యక్రమంలో రిజిస్ట్రార్ ఆచార్య కె. చంద్రయ్య, ప్రిన్సిపాల్ ఆయనశాస్త్ర విభా గాదిపతి ఆచార్య ఏజ్ దాము పాల్గొన్నారు.

అంధ్రజ్యోతి Sun. 28 January 2018 <https://epaper.ahjanandhrjyoti.com/c/39122672>

Press reports related to Pratyancha Programme

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PAGE:2

Photographs related to Pratyancha Programme


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Translation:

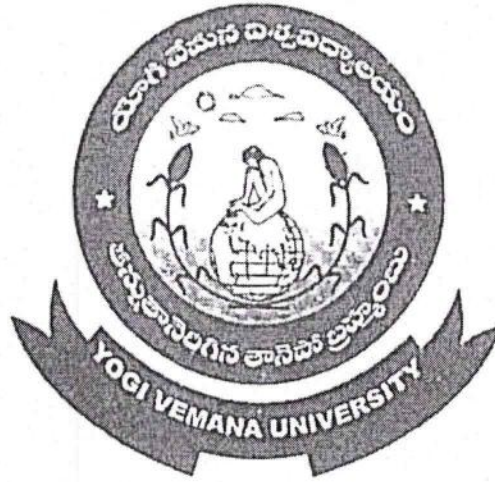
Pratyancha Programme for the academic Year 2017-18

A unique programme titled **Pratyancha** was started on 27th January, 2018, by the Skill Development Centre of Yogi Vemana University, Andhra Pradesh State Skill Development Corporation (APSSDC) in collaboration with CSIR, IICT-Hyderabad for the benefit of the students of Chemistry, Biotechnology, Biochemistry and Microbiology. The objective of the event was to create awareness on employment opportunities in relevant fields and provide training for about sixty students. Experts from CSIR, IICT, DBT and Lepakshi Biotech Park interacted with the participants and shared their experiences and expertise.



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**YOGI VEMANA UNIVERSITY COLLEGE
KADAPA**



ATTENDANCE REGISTER

Maintained by

**Prof. A.G. Damu
Nodal Officer
Pratyancha-2017
Yogi Vemana University
KADAPA.**

Department : _____

Year : _____

Semester : _____

REPORT ON PRATYANCHA, A SKILL DEVELOPMENT PROGRAM

Pratyancha, a skill development program on advanced pharma and biotechnology was launched and successfully organized at Yogi Vemana University, Kadapa, Andhra Pradesh in 2018. Andhra Pradesh State Skill Development Corporation is a unique organization formed to promote Skill-Development and Entrepreneurship in the State of Andhra Pradesh. Yogi Vemana University was selected as one of the four nodal centers in the state for a skill development program Pratyancha by APSSDC. This course is jointly certified by Life Sciences Sector Skill Development Council (LSSSDC), AP State Skill Development Council (APSSDC), and CSIR-Indian Institute of Chemical Technology (CSIR-IICT). The program is offered at a subsidized rate of Rs 20,000 which will help the student to get a suitable and respectable employment. A total of fifty seven students were enrolled in the Yogi Vemana University, Kadapa nodal center and successfully completed the program and obtained certificate through LSSSDC, APSSDC & CSIR-IICT. During final phase of hand-on training, almost all the participants were selected for various jobs in multinational pharma companies through campus placements for their credit.

The professional skill course in Biotechnology or Pharmaceutical Sciences is designed to equip science graduates (B Tech, M Tech, Sc) with the necessary technical skills and general competencies that would allow them to transition smoothly from academics into an industrial setting. This also aimed to reduce the time required by business to properly train entry level candidates to do the job they were hired for.

The course is a mix of theory lessons (classroom-based) and practical, hands-on training through independent small projects (laboratory-based). The course consists of (a) Common, compulsory modules and (b) Elective modules in either Biotechnology or Pharmaceutical Sciences. Common, compulsory modules were designed for 50 hrs workload. Elective modules were


composed for 100 hrs theory and 125 hrs practical training. Common, compulsory modules have been designed to enhance some general technical skills as well as competencies. General technical skills were necessary for an understanding of Regulatory & Intellectual property rights, Clinical trials and Biostatistics processes, Analytics and & quality assurance and Health & safety assurance by a professional. These skills were delivered through five modules. Competencies are behavioral attributes that are felt to be key for effective performance within a particular job. As part of this, one module including Innovation, Entrepreneurship & Commercialization, Project Management, and Interpersonal behavior & Communication skills was delivered as a series of workshops conducted by well-known experts from Industry.

Pharmaceutical sciences elective module covers the skills required in conventional pharmaceutical and drug discovery, and the technologies associated with them. It provides domain-specific functional skills necessary for new employees. This module contains Pharma & biopharma formulations, Pharmaceutical technology & management, Pharmaceutics & Pharmaceutical analysis, Medicinal chemistry, and Regulatory toxicology.

Biotechnology elective module covers all the aspects of the new biotechnology as it applied to Health & Pharma. It also provides domain-specific functional skills necessary for new employees. This module contains Microbial biotechnology, Bioprocessing & Downstream processing, Agri & Marine biotechnology, Genome technology & Bioinformatics, and Biotechnology in pharma sector.

Practical training- laboratory or industry based project work will typically comprise of training in the use of cutting edge, sophisticated analytical equipment to be used in the industry. Students will learn how to use instruments, trouble-shoot, and interpret data and results so that they can carry this skill into the workplace. This hands-on training was conducted at CSIR-IICT,

Hyderabad. These theory sessions were conducted by leading industry experts from the biotechnology, pharma and allied industries. As inauguration of the program, Mr. Srinivas Shankar Prasad, Convener, Task Force Committee on Pharma & Biotechnology delivered key note address. Internationally leading scientists, entrepreneurs, and industrialists like Dr Uday Bhaskar, DG, Pharmexil, Dr T S Rao, DBT Senior Advisor, Dr PVA Rama Rao, Former MD of NABARD, Dr China Raju, Principal Scientist, CSIR-IICT, Dr KRK Reddy, Director, Sri Biotech and Sudhakar Konda, MD, Lepakshi Biotech were participated in the program. Dr. Bal Kumar Marthi was served as Chief Program Coordinator of Pratyancha. Eminent people from all over India viz. Mr. L. Ashok Reddy, Sr. Manager, Aurobindo Pharma Limited, Dr. Pradip Kumar Mazumder, CEO, GCC Biotechnology, Mr. Srinivas Lanka, Director & Head (Clinical Research), Sanjeevani Bio Services Pvt Ltd, Mr. M. Krishna Prasad, a practicing entrepreneur, Dr. S.G. Manjunatha, Sr. Vice President, Cre Agro, PI Industries, Mr. Ranga Suresh, Sr. Biostatistician, PPD, US based, one among top 5 clinical trials in the World, Prof. S. Krishna Sundari, Professor in Biotechnology, JIIT, NOIDA, Mr. Narendra Nagaraju Karumuri, Sr. Manager R&D, Slayback Pharma India LLP, Mr. Jahangeer, Coordinator, LSSSDC, Mr. Vamsee Mohan Krishna etc. were disseminated their knowledge and expertise to the participants as resource persons.


Prof. A.G. Damu
Nodal Officer
Pratyancha-2017
Yogi Vemana University
KADAPA.


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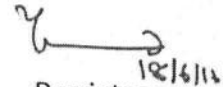
Phone.No:+91(0)8562-225429 .
Fax:+ 91-(0)08562-225419
E-mail :registraryvu@gmail.com

REGISTRAR

Date:18/06/2016

CIRCULAR

I am to inform you that all teaching , non teaching staff , students and research scholars are requested to participate in yoga practice at Physical Educations & Sports Sciences ,champions dias on eve of **International day of yoga celebrations** on 21st June 2016.The session begins at 7.00am sharp and end by 8.00am.


18/6/16
Registrar


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YOGI VEMANA UNIVERSITY
KADAPA-516 005.

INVITATION



YOGI VEMANA UNIVERSITY

VEMANAPURAM, KADAPA DIST.AP

DEPARTMENT OF PHYSICAL EDUCATION AND SPORTS SCIENCES

CORDIALLY INVITES YOU TO THE

CELEBRATIONS OF

2nd INTERNATIONAL YOGA DAY

CHIEF GUEST

PROF. M.DHANANJAYANAIDU
RECTOR, YOGI VEMANA UNIVERSITY

GUEST-OF -HONOR

PROF.B.JAYAPAL GOUD
PRINCIPAL, YOGI VEMANA UNIVERSITY COLLEGE.

DATE:21-06-2016

TIME: 07 AM TO 08 AM

VENUE: YOGA HALL, DPSS, YVU

DR.K.RAMA SUBBA REDDY
COORDINATOR , DPSS, YVU

PROGRAM FOLLOWS YOGIC REFRESHMENT



REGISTRAR
YOGI VEMANA UNIVERSITY
KADAPA-516 005.

REPORT ON 2nd INTERNATIONAL YOGA DAY ON 21-06-2016

2nd International Yog Day is celebrated on 21st June, 2016 from 7 AM to 8 AM in the presence of Rector, Yogi Vemana University and Principal, YVU College at the Department of Physical Education & Sports Sciences. Yoga asanas as per the AYUSH protocol with students and University authorities have been performed. This celebration is going to bring awareness on Yogic exercises and its importance in life. Prof. M. Dhananjaya Naidu, Rector, Y.V.University has attended as chief guest and performed asanas and he said everybody should make yoga as a part of life to lead life away from physical and mental commotion and he also appreciated the Department of Physical Education & Sports Sciences teachers for well organized events. As a guest of honour Prof. B. Jayapal Gowudu, Principal, YVUC has also participated in the program and he said yoga is beyond cast greed and geographical limitations.



Photographs related to International Yoga Day Celebrations on 21-06-2016


Go-Ordinator
Dept. of Phy.Edu & Sports Sciences
YOGI VEMANA UNIVERSITY
Kadapa, Y.S.R. Dist (A.P.)-516005.


REGISTRAR
YOGI VEMANA UNIVERSITY
KADAPA-516 005.



YOGI VEMANA UNIVERSITY
(IF KNOW THYSELF, THOU ART THE DIVINITY)

VEMANAPURAM, KADAPA, Y.S.R DIST-516 005, A.P.

2nd INTERNATIONAL YOGA DAY

DATE: 21-06-2016.

TIME: 07.00 AM TO 08.00 AM.

VENUE: YOGA HALL, DPSS, YVU.

ORG.BY: DEPARTMENT OF PHYSICAL EDUCATION & SPORTS SCIENCES (DPSS).

ATTENDANCE SHEET

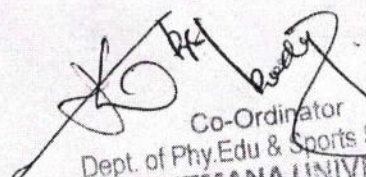
S.NO	NAME OF THE PARTICIPANT	DEPARTMENT	SIGNATURE
1.	Prof Dananjaya Naidu	Rector yvu	[Signature]
2.	Prof Jayapal Gowd	Principal yvu	[Signature]
3.	Dr. K. Ramasubba Reddy	Coordinator, mped	[Signature]
4.	Dr. S. Cham Bashe	Secy S.D. mped	S. Cham Bashe
5.	Dr. T.V.B. Krishna Reddy	A.C. mped	[Signature]
6.	B. Ragavendra	scholar. mped	[Signature]
7.	E. Rajendra	student,	E. Rajendra
8.	N. Rajendra	scholar, mped.	N. Rajendra
9.	G. Varadhu	mped.	G. Varadhu
10.	K. Siva Kumar	M.A. Economics	K. Sivakumar
11.	K. Lokesh	M.A. economics.	K. Lokesh
12.	R. Manisankar Raja	mped	R. Manisankar
13.	E. Sowjanya	M.A. Economics	E. Sowjanya
14.	M. Suresh	M.A. ENGLISH.	M. Suresh
15.	S. Sivaji	M.A. HISTORY	S. Sivaji
16.	Y. VIJAYA KUMAR	M.B.A	Y. Vijayakumar
17.	J. VASITHA	M.C.A	J. Vasitha
18.	D. PREETHA	M.C.A	D. Preetha
19.	G. NAGESWARA RAO	MPED	G. Nageswararao
20.	M. NARAYANA REDDY	M.COM	M. Narayana
21.	P. SAIKALA	M.Sc (MATHS)	P. Saikala
22.	V. KALPANA	M.Sc (MATHS)	V. Kalpana
23.	C. Srinivasa Reddy	MPED	C. Srinivasa Reddy
24.	K. K. HARTHA	M.Sc (BIO TECH)	K. K. Harttha

25.	N. GOWTHAMI	M.A (Economics)	
26.	C. ESWARAMMA	M.A (Political Science)	C. Eswaramma
27.	P. BHARGAVAREDDY	M.B.A (H.R)	P. Bhargavareddy
28.	A. NAGA DINELLI	M.C.A	A. Nagadineti
29.	B. BRAHMANANDAREDDY	M.COM	B. B. B.
30.	P. LAVANYA	M.Sc	P. Lavanya
31.	K. JAYA LAKSHMI	M.Sc (R.D)	K. Jayalaxmi
32.	D. RAMANJANEYAREDDY	M.Sc (Org. Chemistry)	Ramajaneedy
33.	P. CRAVAN KUMAR REDDY	"	P. S. K. Reddy
34.	A. RADHA	M.Sc	A. Radha
35.	P. Venugopal	M.P.Ed	P. Venugopal
36.	D. Vishnuvardan Reddy	"	D. Vishnu Reddy
37.	S. CHANDRA BABU	M.A (Economics)	S. C. Babu
38.	G. NARENDHRA	M.A (Economics)	G. N. Nandhra
39.	P. RAMUDU	M.A (History)	P. Ramudu
40.	S. Syed Hussain	M.P.Ed	S. Syed Hussain
41.	S. SURISH	M.A (Political Science)	S. Surish
42.	B. BHASKAR	M.B.A	B. Bhaskar
43.	Y. HEMALATHA	M.B.A	Y. Hemalatha
44.	P. Gopal	M.P.Ed	P. Gopal
45.	G. RAJU	M.B.A	G. Raju
46.	M. NAGA JYOTHI	M.C.A	M. Naga Jyothi
47.	V. VINAY KUMAR	M.C.A	V. Vinay Kumar
48.	B. Anjaneyulu	M.P.Ed	B. Anjaneyulu
49.	G. VENKATARAMUDU	M.Sc (MATHS)	G. Venkatararamulu
50.	S. VARALAKSHMI	M.Sc (Bio-chemistry)	S. Varalakshmi
51.	B. RAVANIKA	M.Sc (Botany)	B. Ravanika
52.	D. SANKAR	M.Sc (Zoology)	D. Sankar
53.	G. Sreenivasulu	M.P.Ed	G. Sreenivasulu
54.	C. LAVANYA	M.Sc (Org. Chemistry)	C. Lavanya
55.	B. MALLIKA	"	B. Mallika
56.	M. UMA PATHI	M.Sc (Physics)	M. Umipathi
57.	V. DEEPTHI	M.Sc (Zoology)	V. Deepthi
58.	Y. SREENIVASULU	PHD	Y. Sreenivasulu
59.	B. MAJITHI	M.P.Ed	B. Majithi

60.	G. SUMITHA PRIYADARSHINI	M.A (ECONOMICS)	G. Priyadarshini
61.	K. RAVI	M.A (ENGLISH)	K. Ravi
62.	R. JAMMANA	M.A (HISTORY)	R. Jammanna
63.	K. CHINNA	M.A (TELUGU)	K. Chinna
64.	S. SURESH	M.A (TELUGU)	S. SURESH
65.	S. SANTOSH	M.BA	S. Santoshi
66.	E. VIJAYAKUMAR	MCA	E. Vijaya Kumar
67.	YEDDULA KUMAR	M.COM	Y. Eddula Kumar
68.	S. SWARUPA	MCL (APPLIED MATHS)	S. Swarupa
69.	S. BRAMARA.	MCC (Bio-Tech)	S. Bramara
70.	M. BALACHANDRUDU	MCC (BIOLOGY)	M. Balachandrudu
71.	A. NAGA JYOTHI	MCL (Earth Science)	A. Nagajyothi
72.	P. MANOHAR	MCC (Genetics/Bio)	P. Manohar
73.	N. SWARNALATHA	MCC	N. Swarnalatha
74.	T. MALLESWARI	MCL (MATHS)	T. Malleswari
75.	K. SUKANYA	MCC (Organic Chemistry)	Sukanya
76.	T. GURAJAH	MCC (Physics)	T. Gurajaha
77.	T. SUMITHA	MCL (PLANT SCIENCE)	T. Sumitha
78.	T. NARAYANA	MCL (ZOOLOGY)	T. Sumitha
79.	G. NALINI	"	G. NALINI
80.	B. MARUTHI	MA (JOURNALISM)	B. Maruthi
81.	G. OBULESU	BFA	G. Obulesu
82.	D. AJMAL	MA (ECONOMICS)	D. Ajmal
83.	ALURI MEHATAJ	MA (ENGLISH)	Aluri Mehataj
84.	N. RAJASEKHAR	MA (POLITICAL SCIENCE)	N. Rajasekhara
85.	M. PRASAD	MA (TELUGU)	M. Prasad
86.	M. VANI	MCA	M. Vani
87.	K. VARALAKSHMI	MBA (HR)	K. Varalakshmi
88.	S.K. Suman	M.P.Ed	S.K. Suman
89.	V. Chandru	M.Ped	V. Chandru
90.	M. Balaji Nayak	"	M. Balaji Nayak
91.	R. Sambharaj	"	R. Sambharaj
92.	C. Chenna Kesava	"	C. Chenna Kesava
93.	P.N. Gajendra	"	P.N. Gajendra
94.	P. Umesh Naik	"	P. Umesh Naik

95.	N. PEDDIRAJU	MCA	N. Peddiraju
96.	V. HANUMAPPA	MCOM	V. Hanappa
97.	V. HARIKRISHNA	MCOM	
98.	M. BALA SEKHAR	MSc (Applied Maths)	V. Hari Kumar
99.	B. DEEPTHI	MSc (Bio-tech)	B. Deepthi
100.	V. BHARATHI	MSc (Bio-chemistry)	B. Deepthi
101.	C. SUMANTALI	MSc (Botany)	C. Sumantali
102.	SWARASEKHAR RAO AVULA	MSc (Geology)	Swarnas Sekhara
103.	B. Sanjeeva Raja	M.P.Ed	B. Sanjeeva Raja
104.	S. GANGADHAR	M (Genetics)	S. Gangadhar
105.	R. TEJASWINI	MSc (BOTANY)	R. Tejaswini
106.	D. SUPRAJA RANI	MA (ENGLISH)	D. Suprajara Rani
107.	D. ANUSHA	MBA (HR)	D. Anusha
108.	M. RAJESWARI	MCOM	M. Rajeswari
109.	G. SRAVANI	MSc (Bio-chemistry)	G. Sravani
110.	S. RAVI NAIK	M.P.Ed	S. Ravi Naik
111.	P. MOUNIKA	MBA (HR)	S. Ravi Naik
112.	V. Venkatesh	M.P.Ed	P. Mounika
113.	D. SARASWATHI	MSc (Bio-chemistry)	V. Venkatesh
114.	B. SREEDevi	MSc	B. Sreedevi
115.	P. TERUMALEJU	MSc (GEOLOGY)	B. Sreedevi
116.	Y. HARI PRASAD	MSc (Physics)	V. Lavanya
117.	U. LAVANYA	MA (Economics)	U. Lavanya
118.	G. SAIJAJA	"	G. Saijaja
119.	D. Pedda Somy	M.P.Ed	D. peddasomy
120.	T. LAKSHMI DEVI	MSc (MATHS)	T. Lakshmi Devi
121.	V. SUHASINI	MSc (Org-chemistry)	V. Sushasini
122.	P. SANKAR NARAYANA	MSc (Physics)	P. Sankar Narayan
123.	C. Venkateswathi	MSc (Micro-biology)	C. Venkateswathi
124.	K. ELAARAJAH	M.P.Ed	K. Elaarajah
125.	G. REDDIRANI	MSc	G. Reddirani
126.	B. PUSHPARAJU	MSc (Physics)	B. Pusparaju
127.	P. YERRI SOMAY	M.P.Ed	P. Yerriswami
128.	PUNASANI VINOD KUMARI	MSc (Org-chemistry)	P. Yerriswami
129.	B. Bhaskar	M.P.Ed	B. Bhaskar

130.	JETTI DEBORA	MSc(Micro-Biology)	Jetti Debora
131.	N. DEVI	MA(TELUGU)	N. Devi
132.	N. PULLAIAH	MBA	N. Pullaiah
133.	B. NAGESH	MBA	B. Nagesh
134.	SHAIK AYEHA BANU	MSc(GEOLOGY)	Ambani.
135.	P. KISHORE	MA(TELUGU)	P. Kishore
136.	A. REDDEEMAH	MCA	Reddeemah.A.
137.	T. JAYAKRISHNA	MSc(APPLIED MATHS)	T. Jayakrishna
138.	SHAIK JAKIR	MSc(Psychology)	S. Shaik Jakir
139.	B. Sushilini	M.P.Ed	B. Sushilini
140.	T. Snehana	"	T. Snehana
141.	D. Salamma	"	D. Salamma
142.	M. KAVANEEHA	"	M. Kavaneeha
143.	C. Moniswami	"	C. Moniswami
144.	K. Savi Devi	"	K. Savi Devi
145.	C. MANEEHA	MCOM	C. Maneeha
146.	G. SWATHI	M.A(TELUGU)	G. Swathi
147.	C. BHAVANI	MBA	C. Bhavani
148.	S. ANEESHA	MSc(Maths)	S. Aneeshu
149.	G. Ashak	M.P.Ed	G. Ashak
150.	B. Shankar wale	Master	B. Shankar


 Co-Ordinator
 Dept. of Phy. Edu & Sports Sciences
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