Report on AICTE sponsored online STTP on

Innovations in effective teaching, learning pedagogy and research skill development

Date: 19/04/2021 to 24/04/2021

Name of College/Institute: PES Modern College of Pharmacy, Nigdi, Pune 44

Coordinator: Dr. A. A. Phatak

AICTE sponsored online STTP on 'Innovations in effective teaching, learning pedagogy and research skill development' was organized successfully by PES Modern College of Pharmacy, Nigdi, Pune from 19/04/2021 to 24/04/2021. Total 16 sessions were delivered by 15 resource persons. The details are given below.

I] Day1: 19/04/2021

Inaugural address was delivered by Dr. P. D. Chaudhari, Principal Modern College of Pharmacy, Nigdi, Pune. This was followed by Keynote address.

1) Keynote address by Dr. Sanjay Jachak

The keynote address was the optimum blend of techniques of effective teaching, their innovations, learning pedagogy and research skill development.

2) Resource person: Dr. Sanjay Jachak

Topic: Innovative teaching learning and research skills in natural products curriculum During the technical session, Dr. Sanjay Jachak discussed basic teaching elements like:

- Research based studying
- Student centered learning
- Inclusivity of diversity

3) Resource person: Dr. Kapil Kadam

Topic: Effective ICT methods in teaching learning process for higher education The use of ICT in class was discussed which included:

- Learn 21st-century skills and develop their ICT capability and ICT literacy.
- Improves their attainment levels.
- Prepares them for an integrated society dominated by ICT developments.
- So that they learn the notion of using ICT as a tool for lifelong learning.

The P-O-E concept was discussed which stands for Prediction Observation and Explanation. The problems associated with use of ICT methods and solutions to it were discussed through different 2] Day2: 20/04/2021

1) Resource person: Dr. Sumathi Narayanan

Topic: Innovations in effective teaching, learning pedagogy

She has discussed following points with participants

- Introduction to neuro linguistic programming,
- Mental model-power of subconscious mind,
- Perception-how we take in reality
- Sensory channel-VAK

2) Resource person: Dr. Jyoti Bawane

Topic: Authenticity in Teaching

Dr. Bawane explained 3Es for effective learning: Experience, Engaging opportunities and Encouraging environment.

Approaches toward authentic teaching were discussed -

- Scenario based teaching: real life situations, problem solving environment, facilitate decision making, enhance critical thinking skills
- Collaborative learning: use of groups to enhance learning, let learners work together
- Reflection: motivate and explorelearners, take feedback.

3) Resource person: Dr. S. B. Bhise

Topic: Vision for a Research-based University

Session started with details of basic facts like Research, University and teaching.

Technical session included following points

- Importance of HEFEI Statement about RBU: Importance of statement to identify the key characteristics that make research universities effective and to promote a policy environment that protects, nurtures and cultivates the value, standards and behaviors.
- Characteristics of Research Base University: 10 different characteristics of RBU were discussed like excellence across all operations, internationally recognized research, commitment to research training, Commitment to teaching, open and transparent set of governance arrangement.

3] Day 3: 21/04/2021

1) Resource person: Dr. D. N. Sansanwal

Topic: Research Skill Development for Higher Education Teachers

D. N. Sansanwal has covered about research in common parlance refers to a search for knowledge. He has discussed the purpose of research is to discover answers to questions through the application of scientific procedures.

He has discussed following points in his presentation:

 The main aim of research is to find out the truth which is hidden and which has not been discovered as yet.

- Difference between discovery and inventions
- characteristics are like height, weight. changes gradually over a range of values shows continuous variation. Examples of such and discontinuous variable. Continuous variable is for any species, a characteristic that Types of variables: He has discussed the types of variable includes continuous variable

2) Resource person: Dr. Nilesh Gaikwad

Topic: Utilization of pomegranate for food, Pharmaceuticals and Cosmetics Industry

addition, Pomogranate utilization for pharmaceutical and cosmetic purpose. of tree and fruit and their utilization, therapeutic utility. pomegranate processing and value reproductive health. He has highlighted different parts of pomegranate with active constituents antioxidant, antiparasitic, antidiabetic, antiviral and also used to maintain skin, dental, Dr. Nilesh Gaikwad has covered about research on Pomegranate. All parts of pomegranate tree great therapeutic value like antimicrobial, antioxidant, anticancer, anti-inflammatory,

4] Day 4: 22/04/2021

1) Resource person: Dr. Shubhada Nagarkar

Topic: Predatory Journals

Hijacked journals: publishing services associated with legitimate journals. Predatory open access publishing is an exploitative open access academic publishing business model that involves charging publication fees to authors without providing editorial and Citations are depending on impact factor of journal, on h-index, on i10 index, SJR and SNIP. They are difficult to recognize as they mimic the reputable publications in

name, logos and website.

Cloned journals: They are online dubious version of print only authentic journals.

the authors are from the same institutes. Crony publishing: Institutional publications in which editorial board members are a majority of

Predatory journals have lack of standard publishing practices

2) Resource person: Ms. Rashmi Arya

Topic: Patent filling procedure and importance in research

and first inventor of the invention. particular territory, for a limited time. ho can File a Patent? Any person claiming to be the true Patent is a right granted to inventors to prevent unauthorized use of an invention, within a Trademarks, Copyright, Trade Secrets, Geographical Indications, Utility models, Domain names. and artistic works, design, symbols, names and images used in commerce. Types of IPR Patents, Basics of intellectual Property Rights (IPR): IPR is creations of mind, such as inventions literary

Resource person: Dr. Vandana B. Patravale

Topic: Strategies for Effective Research Grant writing

write a proposal. Next how can we review literature. At end of session she shared case studies convincing rationale; unmet need, these are the problem statements she explained when you for health care. Then purpose/Utility of research, research goals and objectives, background, dispersed colors. It is not possible without facilities and funds. There are various funding agency proposals and ideas need recognition that researchers do perform at their best in widely areas, it is natural the number of research ideas and proposals will grow accordingly. These With increasing demand for treatment of Cancer, Neurodegenerative disorder in many more

5] Day 5: 23/04/2021

Resource person: Dr. Ranjit Barshikar

Topic: QbD: Opportunities and Challenges

The presentation included:

- assessment Detail about manufacturing process and product development process with risk
- expectation Risk assessment is very important in QbD, product development should meet patient

2) Resource person: Dr. Megha Upalane

Topic: Research skills for teachers

for teachers. Importance of Research skill for teachers included: An interactive and informative session was conducted by Dr. Megha Upalane on Research skills

- It established the relationship between good researchers and good teachers
- Improves their approaches towards research
- regularly by research grants and funds. Research skills development for teachers is very important to keep them updated
- Also its very useful for developing teaching learning skills of teachers

3) Resource person: Dr. Bhushan Pimple

Topic: Animation: An Effective Pedagogical Tool

Importance of using animated presentation for better understanding of things to participants

- the different parts of plants by using different colors. He has given many wonderful examples like morphology of plant parts, how to heighted
- Also he explained how to draw the glassware and apparatus.
- Also teaching technique of understanding TLC development method using animation tool

5] Day 6: 24/04/2021

1) Resource person: Dr. Sanjay Boldhane

Topic: Research data- Evaluation and interpretation

correctly, you almost have solution. He has explained following points Dr. Sanjay Boldhane has discussed that -Experiment Never Fails, if you define the problem

- Models- Mathematics, Mechanistic, Hybrid, Empirical
- Experimental Design- Comparative, Screening, Interaction, Optimization, Modelling
- **OFAT VS DOE**
- QbD- Statistical Equation which is acquired by six sigma

Topic: Tools for effective teaching learning process 2) Resource person: Dr. Remeth J Dias

Following points were discussed during session by Dr. Remeth J Dias

- Teaching method (Offline/ Online)
- Traditional Teaching Vs Modern Pedagogy
- Change in Knowledge, Attitude and Skills
- Types of Learners- Learning Style
- Student Diversity

3) Valedictory address: by Dr. V. V. Chopade

online. The quiz was conducted every day through google forms online. The feedback form was circulated among participants and they were asked to fill and submit the STTP contents, interaction with speakers and organizers and benefits of STTP The whole STTP was concluded by valedictory address. Participants presented their views about

Coordinator, STTP

Innovations in effective teaching, learning pedagogy and research skill development Screenshots of AICTE sponsored online STTP on Date: 19/04/2021 to 24/04/2021

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