



SRI PADMAVATHI SCHOOL OF PHARMACY

Mohan Gardens, Vaishnavi Nagar, Tiruchanoor (PO), Chittoor (Dist.), AP - 517503

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Best Practice 1:

Effective Implementation of Pedagogical approaches in teaching-learning

Objectives (100 words)

The main underlying concept under this practice is that the teachers adopt the pedagogical approaches in presenting the syllabus content to the students in a way that it is relevant to their needs which in turn create a significant impact on the student's mind.

The objectives of this practice include:

- To improve the quality of teaching among the teachers
- To eliminate teacher-centric methods and to encourage student-centric methods in teaching-learning process.
- To create an environment conducive for collaborative learning among the students
- To improve the learning abilities of the students by different pedagogical approaches
- To achieve outcome-based education thereby benefitting the students

Context (150 words)

Implementation of pedagogical approaches poses a meticulous challenge to the teacher as it vastly different from conventional chalk-board teaching method. This requires to address the various pedagogical approaches for the successful implementation. Firstly, in the constructivist approach, the students are encouraged to be active in the teaching-learning process. Secondly, they are encouraged to form small groups of learners in which they collaborate to create ideas, solve problems and complete the assignments. Thirdly, integrating the ICT tools in their learning across the syllabus. Lastly, by creating inquiry-based learning whereby the students are expected to build a culture of relating the theoretical knowledge with real-world scenarios through high-level questioning and exploration.

Practice

The institution has made a conscious effort to shift from the traditional teacher-centric approach to a Pedagogical approach in teaching-learning. The teachers act as facilitator and students play an active role in the learning process. The teaching pedagogies are styled to cater the needs of students. The institute utilizes blended learning approach which involves planned implementation of a learning model that integrates pedagogical approaches, traditional in-class learning with other flexible learning methodologies using media and web-based online



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collaborative approaches in order to provide student-centered learning experiences for the students with increased access to educational content and flexibility. The students are provided with the lesson planner, class-wise teaching topics and course materials for each subject at the beginning of their course work. This enables the student to have a prior knowledge and glimpse of understanding topics which are being taught in the class. At the end of a lesson or unit, the teacher gives an assignment related to the lesson whereby the students are expected to work collaboratively for the completion of assignments. Also, they are periodically asked to solve puzzles, crosswords, build a mind map of the topic and work on simulation experiments and animations on the topics etc. The students are encouraged to take periodical assessments through quizzes and google forms by which the teacher is able to assess their levels of understanding thus identifying the slow and advanced learners and provide the support accordingly. The flipped class mode allows the students to participate in teaching assignments, deliver seminars on specific topics of their interest which enhances their learning abilities. Group discussions and debates help in generating new ideas and concepts and build leadership qualities among the students. Mini-projects and project works promotes the students to generate and solve their research ideas. Case presentations and journal clubs encourage the students to have an understanding on the cross-cutting and latest innovations and prevailing issues in the real world. All these multi-faceted approaches make the students profession-ready graduates.

Evidences of success

The success through this practice is better evident from the qualitative changes that were observed in the students rather than in quantitative terms. Students were found to be more interactive and highly participative in the teaching-learning process due the implementation of pedagogical approaches in day-to-day class activities. The learning abilities and analytical skills of the students were found to be enhanced which in turn translates in to a greater number of students succeeding in the competitive examinations and better placement in various pharmacy professions. These methods also promoted more students to pursue their higher education in the same institute after their graduation. Thus, this practice is making the institute believe to achieve its mission and vision.




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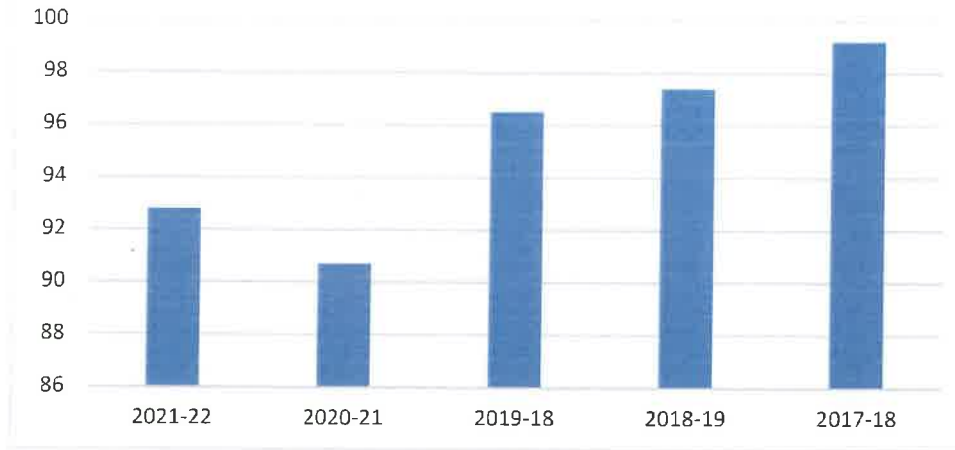


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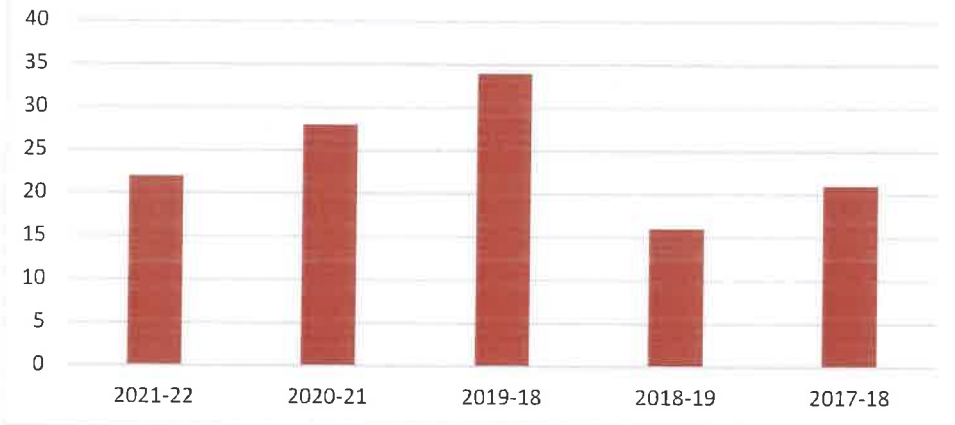
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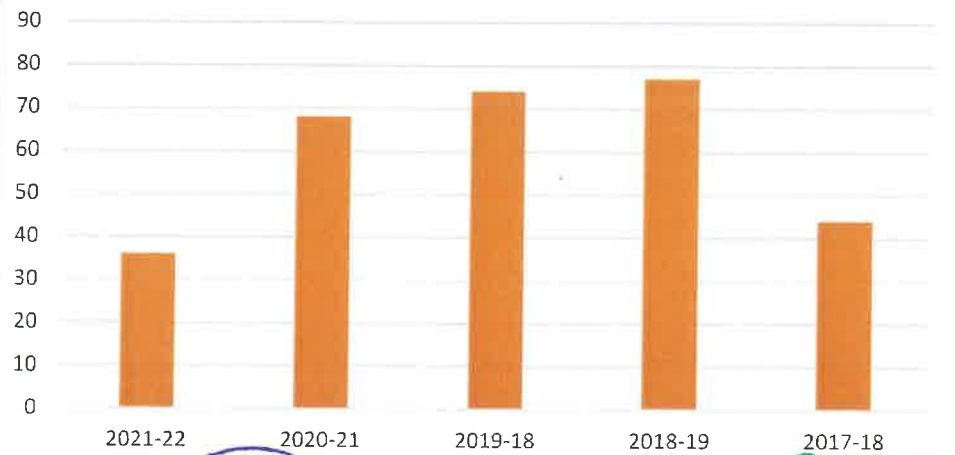
Pass Percentage of Final Year Students



Students Qualified in NIPER/GPAT/APPGECEET



Students Placement & Higher Education



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Problems encountered and resources required

For the successful implementation of pedagogical approaches, the biggest problem is the equipping the teacher with the required skills for the developing various learning modules that facilitate the students. To solve this barrier the teachers are encouraged regularly to participate in the faculty development and training programs both in-house and outside the college. ICT tools like projectors, computers, audio aids and other necessary tools are provided in most of the class rooms which promotes blended mode of learning. An effective communication platform between the teachers and students is provided in the form of WhatsApp groups for each class and Eazy-college and MS Teams platform for sharing of information related to teaching-learning activities.

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Lesson planner, class-wise teaching topics and course materials for each subject



SRI PADMAVATHI SCHOOL OF PHARMACY, TIRUCHANOOR COURSE LESSON PLAN

FORM C

ACDEMIC YEAR	2019-2020
COURSE	B PHARM II Year II SEM
SUBJECT	PHARMACEUTICAL ANALYSIS
CODE	15R00401
FACULTY	J.BHAVITHA
HOURS/WEEK	4hrs
TOTAL HOURS PRESCRIBED	60

MONTH/PERIOD	NO OF HOURS	Chapter	TOPICS TO BE COVERED	REFERENCE BOOKS
JANUARY	8	Unit I	a) Definition of Analytical chemistry and role of pharmaceutical analysis in pharmaceutical industry. Significant figures, concept of error, precision, accuracy, rejection of doubtful values with special reference to volumetric analysis. Calibration of glassware used in volumetric analysis Burette, pipette and volumetric flask. Methods of expression of concentration(w/w,w/v,v/v).	<ol style="list-style-type: none"> 1. Pharmaceutical Chemistry (Inorganic) – G.R. Chatwal. 2. Inorganic, Medicinal & Pharmaceutical chemistry – Block, Roche, Soine & Wilson. 3. Practical pharmaceutical chemistry, Part-I, A.H.Beckett and J.B.Stenlake 4. Indian pharmacopoeia 5. Text book of quantitative chemical analysis, vogel
	4		b) Theory of Neutralization Titrations: Acid-base concept, Acidimetry, Alkalimetry, Common ion effect and solubility product, indicators, Ostwald and quinonoid theories of Indicators	
	3		c) Non-aqueous titration: Theory, types, solvents used and application in pharmaceutical analysis	
JANUARY FEBRUARY	6	Unit II	a) General principles, theory and examples of oxidation-reduction methods, permanganometry, ceriometry, iodometry, iodimetry indicators used in these titrations, self indicators.	<ol style="list-style-type: none"> 1. Pharmaceutical Chemistry (Inorganic) – G.R. Chatwal. 2. Inorganic, Medicinal & Pharmaceutical chemistry – Block, Roche, Soine & Wilson. 3. Practical pharmaceutical
	5		b) General principles, theory and examples of Precipitation methods:	


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FORM CC



SRI PADMAVATHI SCHOOL OF PHARMACY, MOHAN GARDENS, TIRUCHANOOR HOURLY LESSON PLAN

ACADEMIC YEAR	2019-2020
COURSE	II YEAR B.PHARMACY- II SEM
SUBJECT	PHARMACEUTICAL ANALYSIS
CODE	15R00401
FACULTY	J.BHAVITHA
HOURS/WEEK	4
TOTAL HOURS PRESCRIBED	60

CLASS NO.	UNIT	DIVISION OF THE SYLLABUS
1.	I	Introduction, role and importance of the subject
2.		Outcomes and topics to be covered in the syllabus, classification of analytical methods
3.		Definition of Analytical chemistry and role of pharmaceutical analysis in pharmaceutical industry.
4.		Significant figures, concept of error, precision, accuracy
5.		rejection of doubtful values with special reference to volumetric analysis.
6.		Calibration of glassware used in volumetric analysis
7.		Methods of expression of concentration(w/w,w/v,v/v).
8.		Methods of expression of concentration(w/w,w/v,v/v).
9.		Acid-base concept, Acidimetry, Alkalimetry,
10.		Common ion effect and solubility product,
11.		Indicators, Ostwald and quinonoid theories of Indicators
12.		Applications
13.		Non-aqueous titration: Theory, types
14.		solvents used, non aqueous acidimetry and alkalimetry
15.		Application of Non-aqueous titration in pharmaceutical analysis
16.	II	General principles, theory and examples of oxidation-reduction methods
17.		Oxidation reduction concept
18.		permanganometry, ceriometry,
19.		iodometry, iodimetry
20.		indicators used in these titrations, self indicators.
21.		Applications
22.		Introduction to precipitation
23.		Mohrs method, volhards method, fajans method
24.		Indicators used in precipitation titrations, Adsorption indicators
25.		Adsorption indicators mechanism and applications
26.		Applications
27.		Complexometric titrations :Theory, types and application in pharmaceutical analysis
28.		Types of titrations ,Indicators

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Assignments related to the syllabus


PHARMACOTHERAPEUTICS-I

ASSIGNMENT - II

ON
HYPO THYROIDISM

SUBMITTED BY

Name: S. REDDY KARUNYA
Reg.No: 164 R1 T00 21
Year: PHARM D- II YEAR



DEPARTMENT OF PHARMACY PRACTICE
SRI PADMAVATHI SCHOOL OF PHARMACY
MOHAN GARDENS, VAISHNAVI NAGAR
TIRUCHANOOR, TIRUPATI-517503
2017-2018

Year: PHARM D- II YEAR


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Puzzles and crosswords related to the syllabus

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PHARM. TECHNOLOGY - I
PHARM. AEROSOL

ACROSS
2 TYPE OF ACTUATOR
3 METERED DOSE INHALERS
5 TYPE OF CONTAINER
6 MOUNTING CUP
7 TYPE OF PROPELLANT

DOWN
1 FIRST AEROSOL FOR RTI
4 PHYSICO-CHEMICAL PROPERTY

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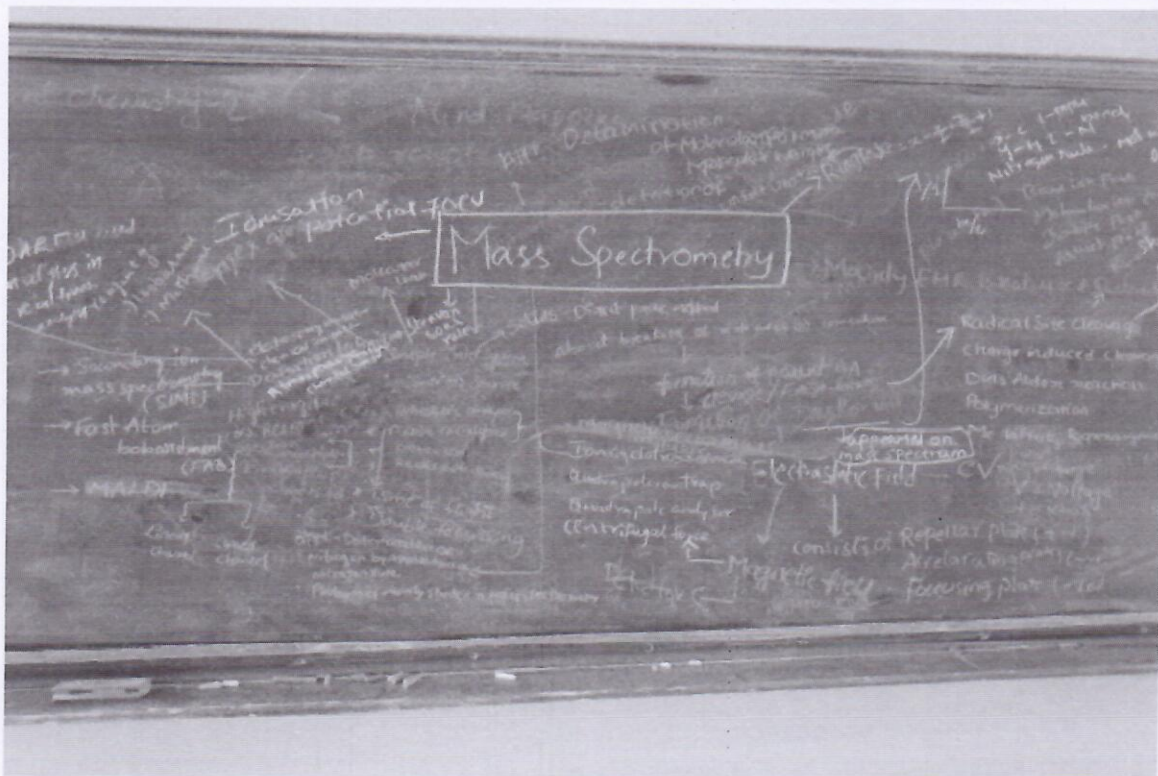
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Mind mapping of a topic in the syllabus



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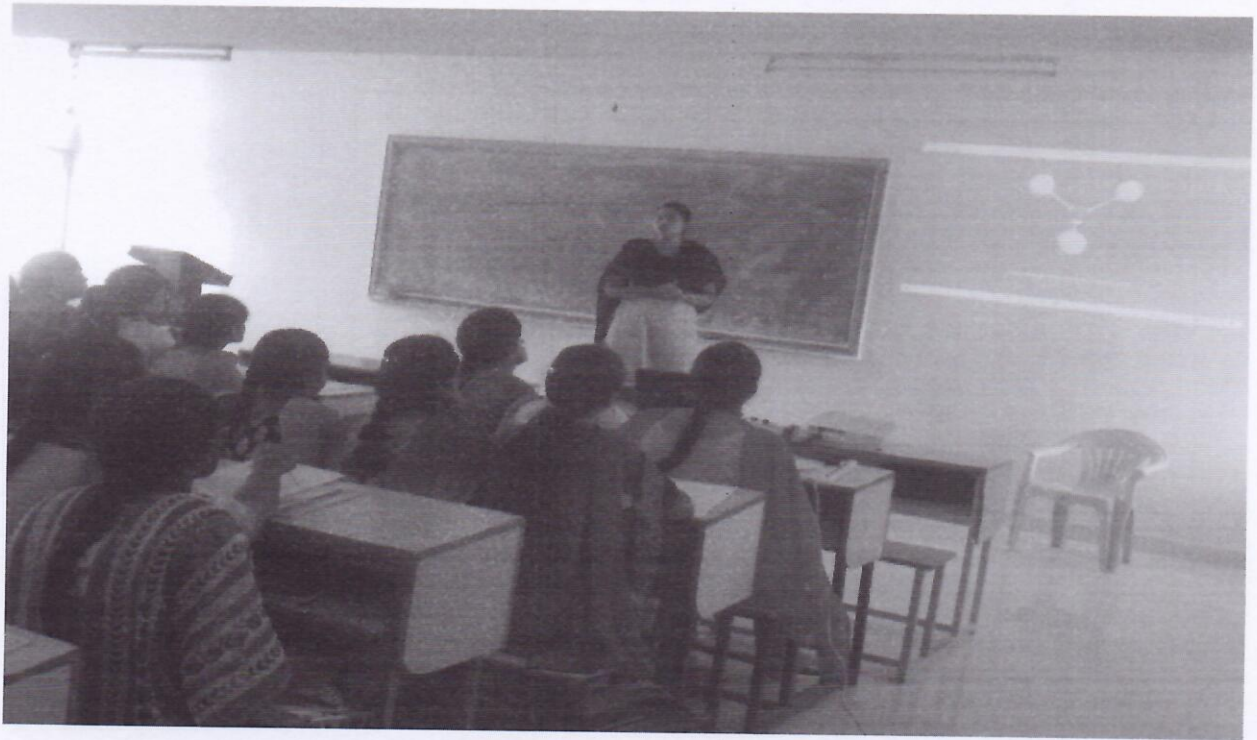
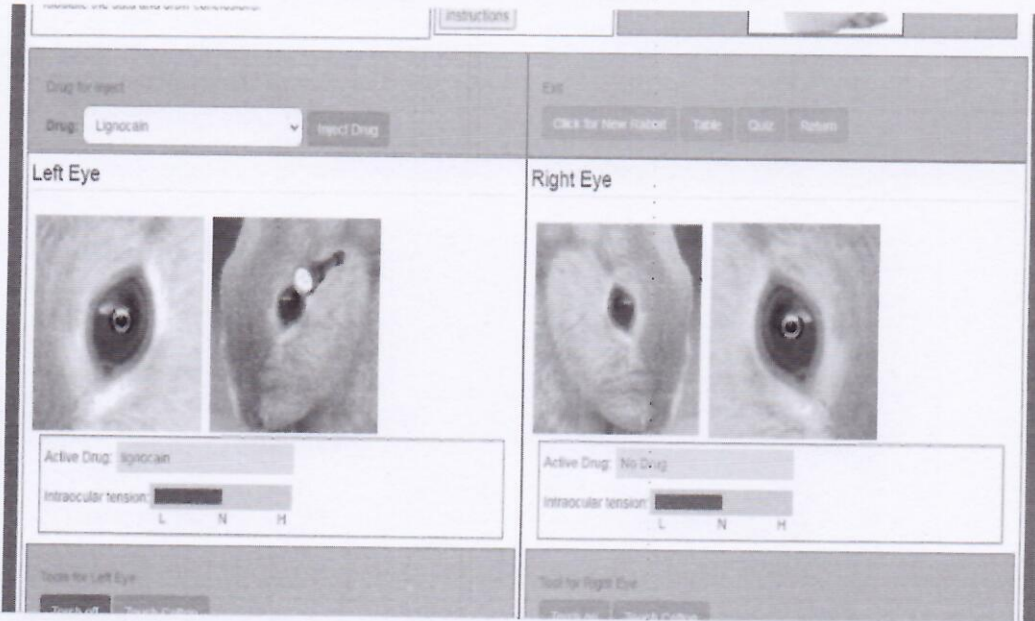


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Simulations and animations during the teaching-learning process



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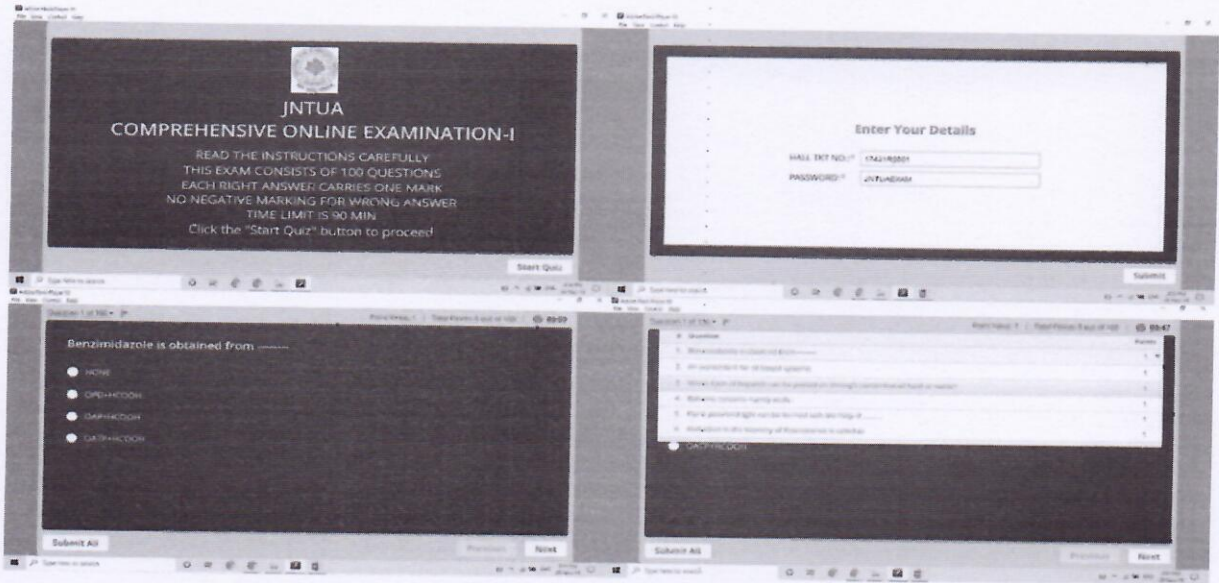


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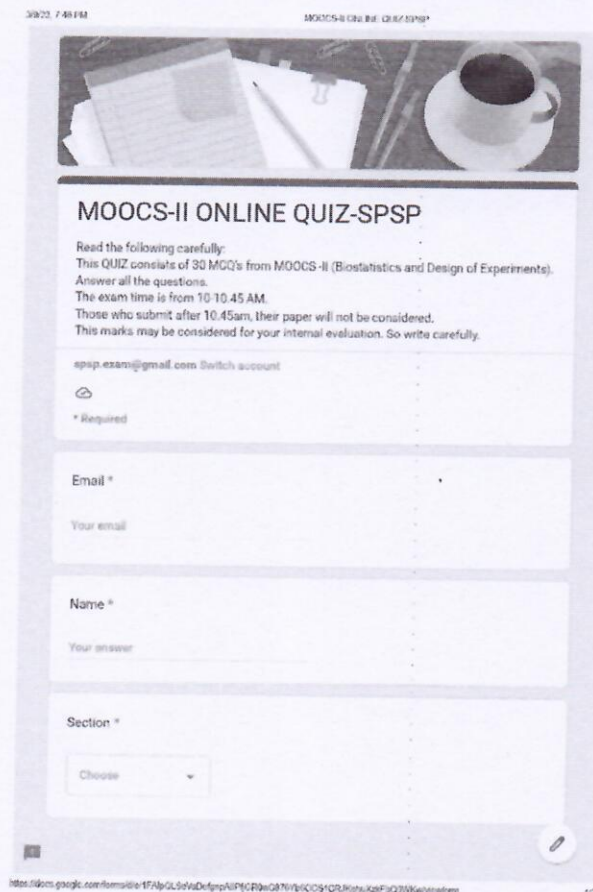
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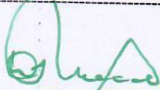
Quizzes and Google forms



Conduction and evaluation of online examinations for B.Pharm students



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TEACHING ASSIGNMENT

SUBMITTED BY

NAME :- A. PRAVEEN KUMAR

REG.NO:- 17421S0701

DEPARTMENT: - PHARMACEUTICAL ANALYSIS

S. No	NAME OF THE TOPIC
1.	Applications of Electrophoresis in bio-analysis.
2.	Calibration of Electronic balance.
3.	Principle, Instrumentation & Applications of Turbidimetry and Nephelometry.
4.	Significance of techniques and ethics of IPR.
5.	Instrument handling, Troubleshooting, various parts, companies, models of F.T.I.R.
6.	Quality guidelines of photo stability and stability testing of herbal products.
7.	Method development and validation and interpretation of mass spectrometry.
8.	Spectrophotometric Titrations.
9.	Types of water.
10.	Opportunities in industries.

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SRI PADMAVATHI SCHOOL OF PHARMACY, TIRUCHANOOR DEPARTMENT OF PHARMACEUTICAL ANALYSIS M.PHARM III SEM- JOURNAL CLUB ALLOTMENT SHEET

S.NO	JOURNAL WORK	STUDENT
1.	Life Cycle Management of Analytical Methods	P.DIVYASREE
2.	Development and validation of stability indicating HPLC method for determination of adrenaline tartrate	T.SAI TEJA
3.	Development and validation of a GC-FID method for quantitative analysis of oleic acid and related fatty acids	G.GIRISH
4.	Extraction, characterization and biological studies of phytochemicals from <i>Mammea suriga</i>	A.PRAVEEN KUMAR
5.	Spectroscopic analysis on the binding interaction of biologically active pyrimidine derivative with bovine serum albumin	J.NITYANANDA SWAMY
6.	Application of a validated HPLC-PDA method for the determination of melatonin content and its release from poly(lactic acid) nanoparticles	T.SARITHA
7.	Development and validation of microbial bioassay for quantification of Levofloxacin in pharmaceutical preparations	G.JYOTHI
8.	Comparative dissolution study on counterfeit medicines of PDE-5 inhibitors	K.MOUNIKA
9.	A validated UPLC-MS/MS method for simultaneous determination of imatinib, dasatinib and nilotinib in human plasma	N.VEEARAGHAVULU
10.	Stability-indicating HPTLC method for simultaneous determination of nateglinide and metformin hydrochloride in pharmaceutical dosage form	B.EPHRATH SAHRON

Saudi Pharmaceutical Journal (2011) 18, 379-388

King Saud University
Saudi Pharmaceutical Journal

ORIGINAL ARTICLE

Stability-indicating HPTLC method for simultaneous determination of nateglinide and metformin hydrochloride in pharmaceutical dosage form

Asha Byju Thomas*, Shrikrushna Digambar Patil, Rabindra Kumar Nanda, Lata Prasad Kothapalli, Shital Shridhar Bhosle, Avinash Devidas Deshpande

Department of Pharmaceutical Chemistry, Dr. D.Y. Patil Institute of Pharmaceutical Sciences and Research, Pimpri, Pune 41, Maharashtra, India

Received 10 March 2011; accepted 26 June 2011
Available online 5 July 2011

KEYWORDS
High performance thin-layer chromatography;
Nateglinide;
Metformin hydrochloride;
Stability-indicating method

Abstract A stability indicating high performance thin layer chromatography (HPTLC) method was developed and validated for determination of two anti-diabetic drugs, nateglinide and metformin hydrochloride in co-formulations. Study was performed on pre-coated silica gel HPTLC plate using chloroform:methyl isobutyl alcohol:acetic acid (6:4:1) v/v/v as the mobile phase. A TLC scanner set at 216 nm was used for direct evaluation of the chromatograms in the reflectance-absorbance mode. Method was validated according to ICH guidelines. The correlation coefficients of validation curves were found to be 0.995 and 0.995 in the concentration range of 200-2400 and 500-3000 µg band⁻¹ for nateglinide and metformin, respectively. The method had an accuracy of 98.73% for nateglinide and 100.00% for metformin hydrochloride. The method had the potential to determine these drugs simultaneously from dosage forms without any interference of the tablet excipients. Nateglinide and metformin hydrochloride were also subjected to acid, base, oxidation, wet, heat and photo-degradation studies. The degradation products obtained were well resolved from the pure drugs with significantly different R_f values. As the method could effectively separate the drugs from its degradation products, it can be used for stability-indicating analysis.
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doi:10.1016/j.spsp.2011.03.001

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1. Introduction
Diabetes mellitus is difficult to cure with a single oral hypoglycaemic agent and the rate of mono therapy failure is high. Hence combination therapy with complementary classes of drugs that act on different aspects of glucose control would be expected to be an effective strategy for the control of diabetes. Nateglinide (Fig. 1a) is an amino-acid derivative which lowers the blood glucose levels and stimulates insulin secretion. Chemically, it is formulated as (-)-N-(2-oxo-4-isopropylpiperidin-3-yl)

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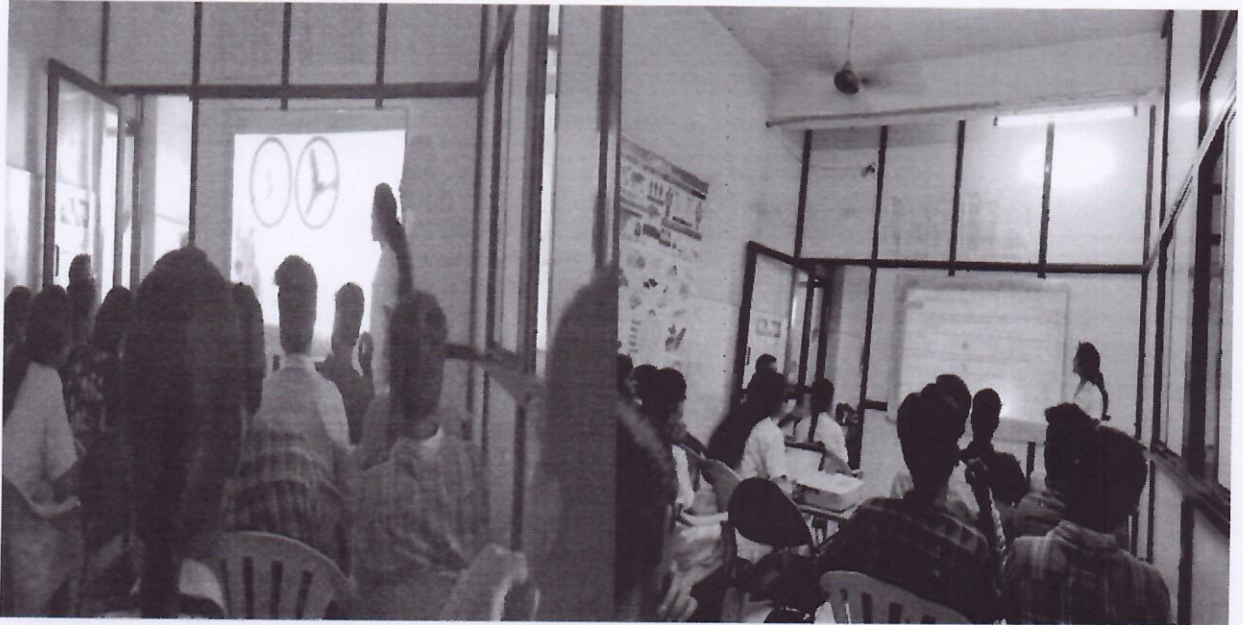
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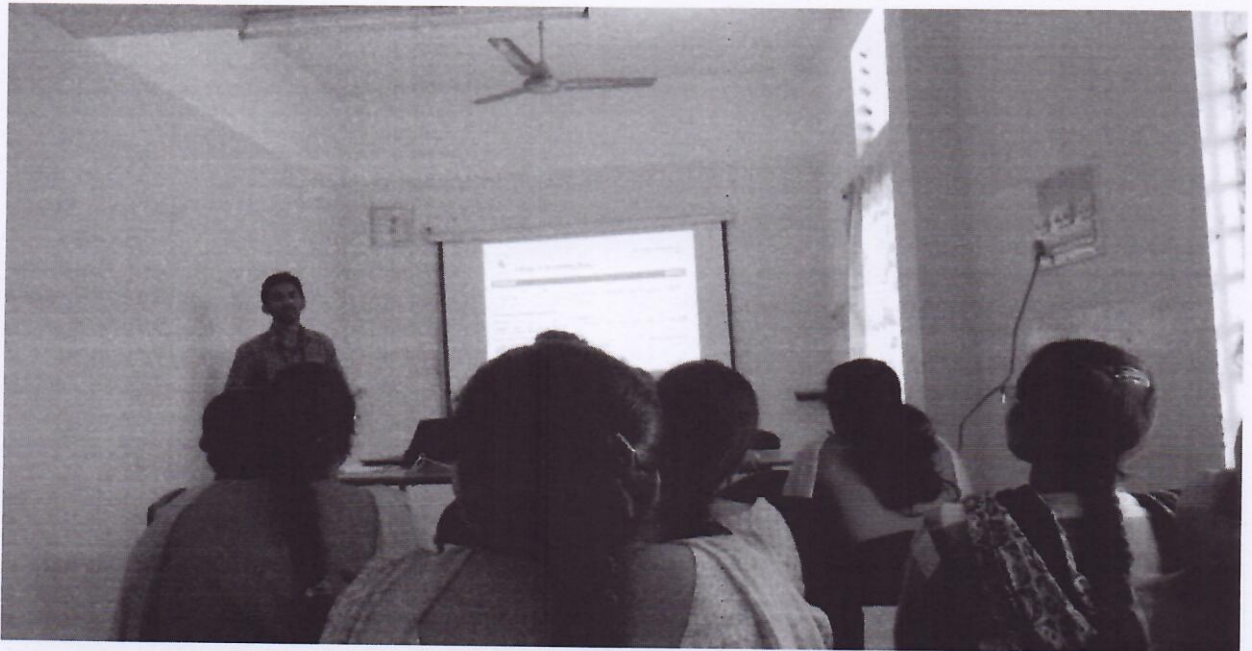
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Case presentations by the Pharm.D students



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