



Criteria 3- Research, Innovations and Extension

Key Indicator 3.3 - Research Publication and Awards

3.3.3 Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during last five years

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INDEX

Sr No	Particulars	Page No
1	Cover page, content page and first page of the selected publication / book / book chapters	3 - 18
2	Web-link of research papers by title, author, Department/ School/ Division/ Centre/ Unit/ Cell, name and year of publication	19

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Index

Criteria 3.3 - Research Publication and Awards

3.3.3 Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during last five years

Sr. No.	Contents	Page No.
1	<u>Book / Chapters published in 2020 - 2021</u>	3
	<u>Mr. Ojaskumar Agrawal</u>	4-5
	<u>Mrs Rashmi Wani</u>	6
	<u>Mrs Rashmi Wani</u>	7
	<u>Dr Sandip Zine</u>	8-9
2	<u>Book / Chapters published in 2019 - 2020</u>	10
	<u>Dr Supriya Shidhaye</u>	11
	<u>Dr Rakesh Somani</u>	12
	<u>Dr Rakesh Somani</u>	13
3	<u>Book / Chapters published in 2017 - 2018</u>	14
	<u>Dr Anita Ayre</u>	15
4	<u>Book / Chapters published in 2016 - 2017</u>	16
	<u>Dr Supriya Shidhaye</u>	17-18
	<u>Mrs Harsha Katpalia</u>	17-18
5	<u>Web-link of research papers by title, author, Department/ School/ Division/ Centre/ Unit/ Cell, name and year of publication</u>	19

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Home > [Phytotherapy in the Management of Diabetes and Hypertension](#) > Chapter 4

Phytotherapy in the Management
of Diabetes and Hypertension

Chapter 4

Management of Diabetes Mellitus by
Natural Products: Glucagon-like Peptide 1
Perspective

Ojaskumar D. Agrawal and Yogesh A. Kulkarni



Dr. (Mrs.) *Supriya S. Shidhaye*
PRINCIPAL
Vivekanand Education Society's
College of Pharmacy
HAMC, Behind Collector Colony,
Chembur, Mumbai - 400 074.

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1/

CHAPTER 5

Management of Diabetes Mellitus by Natural Products: Glucagon-like Peptide 1 Perspective

Ojaskumar D. Agrawal^{1,2} and Yogesh A. Kulkarni^{1*}

¹ Shobhaben Pratapbhai Patel School of Pharmacy & Technology Management, SVKM's NMIMS, V.L Mehta Road, Vile Parle (W), Mumbai – 400 056, India

² Vivekanand Education Society's College of Pharmacy, Chembur (E), University of Mumbai, Mumbai 400074, India

Abstract: Diabetes Mellitus (DM) has become a major and serious health problem worldwide. To overcome this lifestyle disease, natural products can be explored systematically. These natural products act on various targets and show their effect in diabetic conditions. Out of this, GLP-1 Receptor is one of the promising targets. Cells in the small intestine secrete Incretin hormones upon nutrient ingestion. Glucagon-like peptide-1 (GLP-1) is a primary incretin hormone in metabolism that has a potent antihyperglycemic effect. Insulin will release, in the presence of hyperglycemia, GLP-1 stimulates the pancreas to release insulin, stops glucagon release, gastric emptying slows down and increases satiety by acting on the hypothalamus. Storage of GLP-1 is mainly in secretory granules of L cells, in small intestinal distal portion and colon. When the cells are activated, this peptide is released into the main bloodstream. GLP-1 secreted mainly upon the ingestion of oral glucose or the ingestion of a mixed meal. Other factors like neurotransmitters and intestinal hormones also affect GLP-1 secretion from the intestine. Considering the above-mentioned parameters, regulation and control of GLP-1 are necessary as GLP-1 secretion is hampered in T2DM.

The present chapter focuses on scientific information about natural products specifically acting as GLP- 1 Receptor Agonist (GLP-1 RA).

Keywords: Diabetes Mellitus, GLP-1 Receptor Agonist, Herbal Medicine, Insulinotropic, Natural Products.

INTRODUCTION

The number of individuals suffering from diabetes has reached 425 million. International Diabetes Federation data shows that in 2045 there will be 629 million people affected with diabetes. At the global level, India is going to be one

* Corresponding author Yogesh A. Kulkarni: Shobhaben Pratapbhai Patel School of Pharmacy & Technology Management, SVKM's NMIMS, V.L Mehta Road, Vile Parle (W), Mumbai – 400 056, India; E-mail: yogeshkulkarni101@yahoo.com

M. Eddouks (Ed.)

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Dr. (Mrs.) Supriya S. Shidhaye
PRINCIPAL
Vivekanand Education Society's
College of Pharmacy
HAMC, Behind Collector Colony,
Chembur, Mumbai - 400 074.

Mrs Rashmi Wani

CHAPTER 26

ALCOHOL: NECESSARY EVIL OR POSITIVE GOOD

Rashmi Wani

Assistant Professor, Department of Pharmaceutical Chemistry

VES College of Pharmacy, Chembur (E), 400074



Manjeet Kaur

Student (M.Sc Honors), DAV University

Jalandhar-Pathankot Highway (NH 44), Sarmastpur, Jalandhar

Dr. (Mrs.) Supriya S. Shidhaye
PRINCIPAL
Vivekanand Education Society's
College of Pharmacy
JPMC, Behind Collector Colony,
Chembur, Mumbai - 400 074.

ABSTRACT

Ethyl alcohol, or ethanol, is an intoxicating ingredient found in beer, wine, and liquor. Alcohol is produced by the fermentation of sugars and starches by yeasts. Historically and internationally, cultural visions of alcohol and its effect vary in terms of how positive or negative they are and the likely consequences that they attach to alcohol consumption. The dominant contemporary vision of alcohol in the united states is that alcohol(a) is primarily negative and has exclusively hazardous consequences, (b) leads frequently to uncontrollable behavior, and (c) is something that young people should be warned against. The consumption of alcohol plays an important social role in many cultures. Excessive use of alcohol can lead to the development of chronic diseases and some other serious problems like high blood pressure, heart disease, stroke, liver disease, digestive problems and cancer of the breast, mouth, throat, esophagus, liver, and colon.

Keywords: Alcohol, alcoholism, health, drink, economy, consumption

1.0 INTRODUCTION

Alcohol is a central nervous system depressant that is rapidly absorbed from the stomach and small intestine into the bloodstream. Alcohol is metabolized in the liver by enzymes. However, the liver can only metabolize a small amount of alcohol at a time, leaving the excess alcohol to circulate throughout the body. The intensity of the effect of alcohol on the body is directly related to the amount consumed. The consequences of this vision are that when children do drink (which teenagers regularly do), they know of no alternative but exclusive, intense consumption patterns, leading them frequently to drink to intoxication.

Here we explore alternative models of drinking and channels for conveying them which emphasize healthy versus unhealthy consumption patterns as well as the individual's

18 Chapter

PRODUCTION AND PROCESSING OF HERBAL MEDICINES - AN INNOVATIVE EFFORT TOWARDS SUSTAINABLE DEVELOPMENT

Rashmi Wani¹, Varsha Kumai Singh² & Suvarna Bhadane³

¹Assistant Professor, Department of Pharmaceutical Chemistry, Vivekanand Education Society's College of Pharmacy, Chembur (E) Mumbai, Maharashtra

²M.Sc. Student, Banaras Hindu University, Varanasi, Uttar Pradesh

³Assistant Professor, Department of Pharmaceutical Quality Assurance, Ideal College of Pharmacy and Research, Kalyan (Thane), Mumbai, Maharashtra

rashmi.wani@yes.ac.in

Abstract - The importance of research in the field of medicinal plants is felt more than ever. Some medicinal plants are the sources of adjuvant therapy in the health systems worldwide, not only to treat diseases but also to prevent them and maintain health. Despite the extensive experiences in use of medicinal plants in traditional medicine, scientific study and identification of active plant compounds and their effects can lead to the discovery of new therapeutic benefits and the production of nature-based products in the future. To achieve this purpose, extensive research is fundamentally important to control the quality of raw drugs and the formulation to justify their use in the modern medicine system; subsequently, animal studies and clinical trials are required to use the benefits of these plants. In addition, in the development of medicine from medicinal plants, among other things, a practical plan should be developed to preserve these resources.

Keywords - Medicinal plants, Chromatography

INTRODUCTION

Over the past three decades, there has been a constant, and at times, exponential growth in global interest in the use of herbal medicines. This increase in popularity and usage of herbal medicines is evident in the global market. Herbal medicines, including finished herbal products and the starting materials for their production, such as medicinal plants, herbal materials, herbal preparations and herbal dosage forms, are moving into international commerce and global trade, which reflects their increased economic value and importance.

Correct identification of source plant species and the selection of appropriate parts for use in herbal medicines are basic and essential steps for ensuring safety, quality and efficacy of herbal medicines. Hence, the safety and quality of herbal medicines at every stage of the production process have become a major concern to health authorities, health care providers, the herbal industries and the public. The safety and efficacy of herbal medicines largely depend on their quality. Unlike pharmaceutical products formulated from single-molecule chemicals produced synthetically or by isolation from natural source materials employing reproducible methods, herbal medicines consist of simple processed herbs or finished herbal products prepared from source materials containing a multiplicity of chemical constituents, the quality and quantity of which vary from batch to batch due to intrinsic and extrinsic factors.

SCOPE

Herbal processing encompasses the unique procedures of preparing herbal materials and herbal preparations, and it may be extended to the production of finished herbal products, with the ultimate goal of assuring herbal medicines quality. Thus, within the context of quality assurance and control of herbal medicines, the WHO guidelines on good agricultural and collection practices (GACP) for medicinal plants



Dr. (Mrs.) Supriya S. Shidhaye
PRINCIPAL

Vivekanand Education Society's
College of Pharmacy
Chembur, Mumbai - 400 074.

Dr Sandip Zine



ABOUT ▾

Search

A Mini Guide LC-MS and GC-MS Techniques: A Tool for Phytoconstituents Evaluation of Plant Extracts

Gaurav M. Doshi

Department of Pharmacology, SVKM'S Dr. Bhanuben Nanavati College of Pharmacy, Mithibai Campus, Vile Parle (W), Mumbai-400056, India.

Atul P. Sherje

Department of Quality Assurance, SVKM'S Dr. Bhanuben Nanavati College of Pharmacy affiliated to University of Mumbai, Mithibai Campus, Vile Parle (W), Mumbai-400056, India.

Rakesh R. Somani

Dr. D Y Patil Deemed to be University, School of Pharmacy, Sector 7, Nerul, Navi Mumbai, India.

Ami P. Thakkar

Department of Pharmacology, SVKM'S Dr. Bhanuben Nanavati College of Pharmacy, Mithibai Campus, Vile Parle (W), Mumbai-400056, India.

Hemen S. Ved

Department of Pharmacology, SVKM'S Dr. Bhanuben Nanavati College of Pharmacy, Mithibai Campus, Vile Parle (W), Mumbai-400056, India.

Vivek V. Nalawade

Department of Analytical Chemistry, Anandia Labs, Mississauga, Canada.

Pratip K. Chaskar

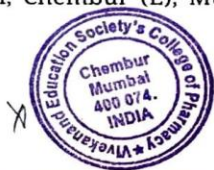
Department of Pharmaceutical Chemistry, Dr. D Y Patil Deemed to be University, School of Pharmacy, Sector 7, Nerul, Navi Mumbai, India.

Sandeep P. Zine

Department of Pharmaceutical Chemistry, Vivekanand Education Society's College of Pharmacy affiliated to University of Mumbai, Chembur (E), Mumbai-400074, India.

Bernadette D. Matthews

Department of Quality Assurance, Vivekanand Education Society's College of Pharmacy affiliated to University of Mumbai, Chembur (E), Mumbai-400074, India and Athena Drug Delivery Solutions Pvt. Ltd., Mumbai, India.



Synopsis

Dr. (Mrs.) Supriya S. Shidhaye
PRINCIPAL
Vivekanand Education Society's
College of Pharmacy
HAMC, Behind Collector Colony,
Chembur, Mumbai - 400 074.

alkaloids, tannins, hormones, saponins, proteins, triterpenoids, flavonoids, phenylpropanoids, and reducing sugars. The chapter covers thirty-five components such as Styrene, D-glycero-D-manno-, Mesitylene, Z,Z-2,5-Pentadecadien-1-ol, Pterin-6-carboxylic acid, L- α -Terpineol, Cyclodecanol, (-)-Carvone, 2-Myristynoyl pantetheine, Cubedol, Benzophenone, Palmitic acid, 9-Octadecanoic acid(Z), Stearic acid etc. These chapters would further help students and researchers to get proper insight to the important phytoconstituents present in various plants.

First edition of this book entitled as Guide to Phytochemical evaluation by LC-MS and GC-MS techniques focuses on basics and plant related examples of two well versed hyphenated chromatographic systems. With this edition, the opportunity has been taken to provide the interested readers and learners a useful guide to bridge the basic understanding and help to solve their practical problems. Some errors in this first edition of the book has been corrected, but others may remain and authors welcome the suggestions to improve on it.

As with first edition, the authors has been considerably motivated, seeked each other's guidance and help and guidance throughout the course of this book. The main corresponding author like to thank his co-authors and his post graduate students who worked to grass route level in development of the techniques and chapters covered in this edition of the book.

Chapter 1

A Mini Review on Liquid Chromatography - Mass Chromatography and Their Applications

Ami P. Thakkar, Hemen S. Ved, Gaurav M. Doshi, Atul P. Sherje

Chapter 2

A Mini Review on Gas Chromatography Mass Spectroscopy and Their Applications

Hemen S. Ved, Ami P. Thakkar, Gaurav M. Doshi, Atul P. Sherje

Chapter 3

A Study to Report Significantly Different Adducts for Petroleum Ether Extract of *Tabernaemontana divaricata* by Atmospheric Pressure Chemical and Electrospray Ionization Methods

Vivek V. Nalawade, Gaurav M. Doshi, Rakesh R. Somani, Pratip K. Chaskar, Sandeep P. Zine, Atul P. Sherje

Chapter 4

GC-MS Analyses of Bioactive Components Present in Ethanolic Extract of *Carissa congesta* Leaves


Bernadette D. Matthews, Gaurav M. Doshi

Chapter 5

Gas Chromatography-Mass Spectroscopy Profiling of Petroleum Ether Extract of *Tabernaemontana divaricata* Leaves

Vivek V. Nalawade, Gaurav M. Doshi, Rakesh R. Somani, Pratip K. Chaskar




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Biomedical application of graphenes

12

R. Singh*, S. Sansare[†], S. Shidhaye[‡]

*Cerelia Nutritech Pvt Ltd, New Delhi, India** *Department of Pharmaceutical Sciences, University of Connecticut, Storrs, CT, United States[†]* *Vivekanand Education Society's College of Pharmacy, Mumbai, India[‡]*

Chapter Outline

1 Introduction	320
1.1 Definition of graphene	320
1.2 Properties of graphene	320
2 Methods of preparation of graphene	321
2.1 Exfoliation	321
2.2 Growth on surfaces	323
2.3 Chemical vapor deposition	323
3 Biofunctionalization of graphene and graphene-based nanomaterials	324
3.1 Biofunctionalization with DNA	324
3.2 Biofunctionalization with proteins	325
3.3 Biofunctionalization with other biomolecules	325
4 Biocompatibility of graphenes	325
5 Characterization of graphene	326
6 Biomedical applications of graphenes	327
6.1 Graphene based nanocomposites	327
6.2 Biosensors	329
6.3 Drug delivery	332
6.4 Targeted drug delivery	332
6.5 Scaffolds for tissue engineering	333
6.6 Prosthetic retina and nerve	335
7 Conclusion and future prospects	335
References	336
Further reading	339

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319



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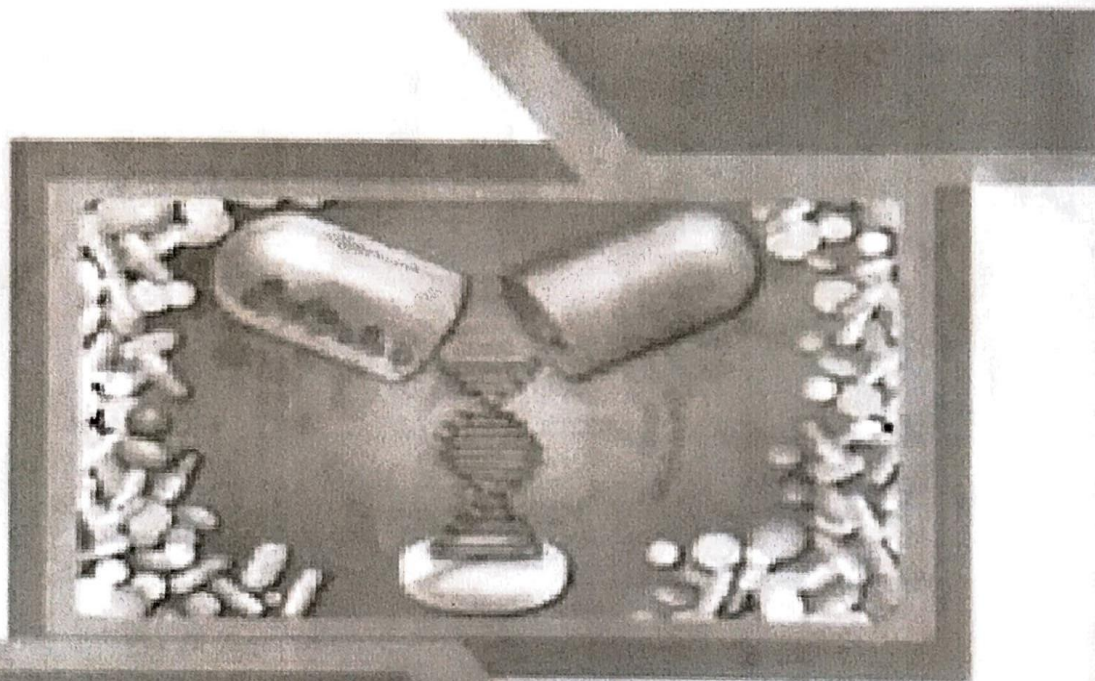
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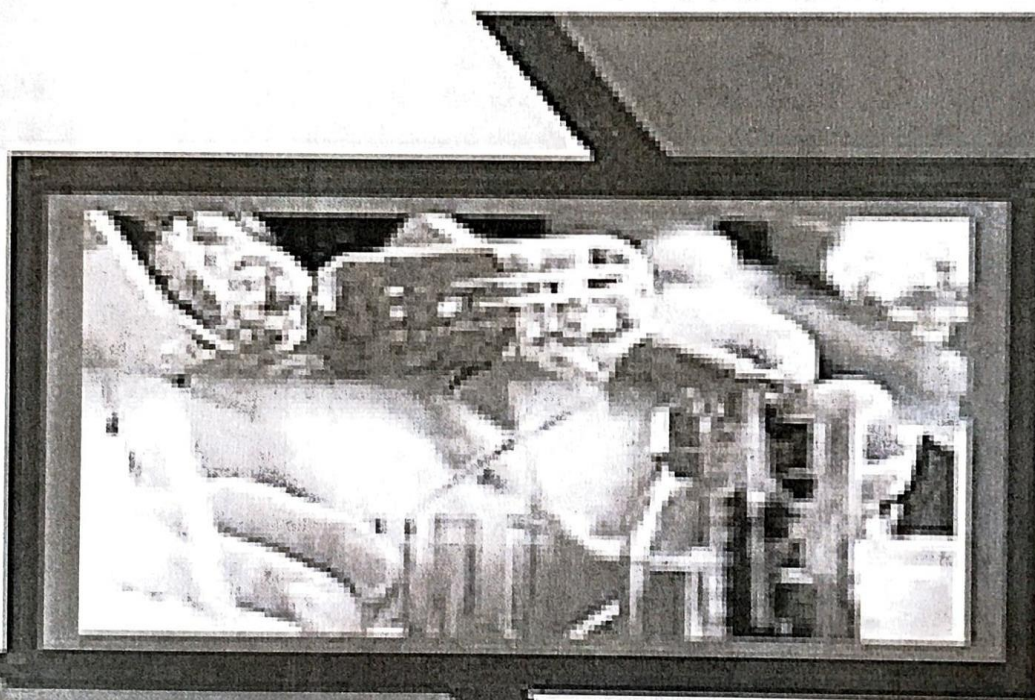
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Dr. (Mrs.) Supriya S. Shidhaye
PRINCIPAL
Vivekanand Education Society's
College of Pharmacy
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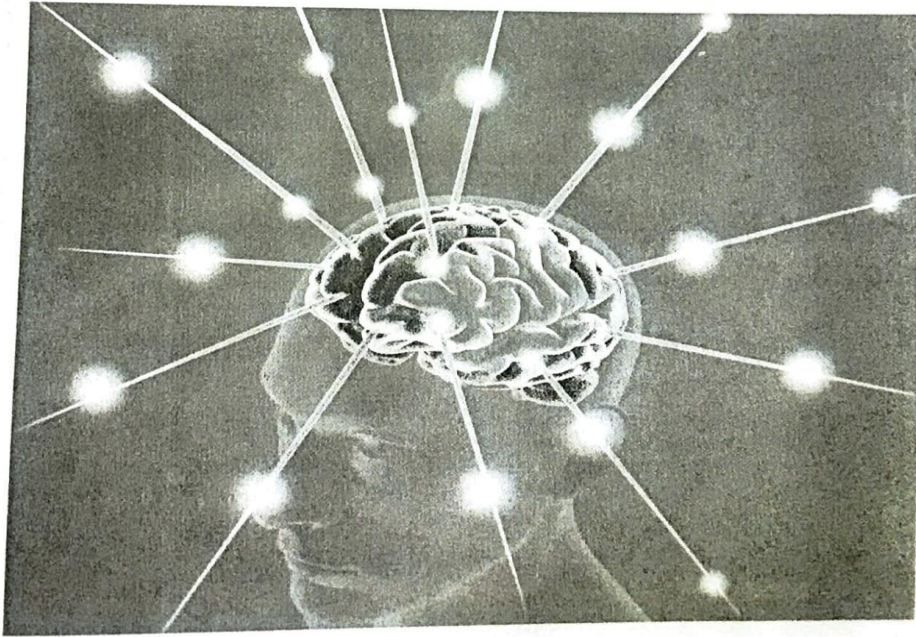


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No.	Title of Paper	Authors	Page no.
17.	Role of information & communication Technology in smart college	Shah Tejas, Bagal Kalpesh, Mahajan Aarti, Hotwani, Bhagyashree	80
18.	The Study on Use of Social Media in Educational Industry in India	Arora, Divya Pandey, Bandana	84
19.	SPANDAN – Teacher Student Mentorship Programme	Ramesh, Biju & Mathur Rajani	91
20.	Making the Learner Realise the Value of Resources: Case of an undergraduate chemistry laboratory	Deshmukh, R. G. Deshmukh, Anarse, R. M.	96
21.	Characteristics of Smart College: Teachers point of view	Kanwar Anita	99
22.	Quality Enhancement Initiative using Student Satisfaction Index in Context of Teaching	Khadse Kailas, Khadse Aditya	104
23.	Student-led “Meaningful Transformative Action” Projects – An Approach towards Smart Learning	Mukherjee Piya	109
24.	Quality Assurance in Physics Education	Neogi Rajlakshmi	115
25.	Strategies Adopted For Experiential Learning	Phadke Manju Abraham George	120
26.	Evolving the frame work for Academic Audit: A tool for Motivation, Quality Enhancement & Quality Assurance	Phadnis, J.K., Stephen, Mary Kanwar Anita	124
27.	A Study of Teaching Methodology of Smart Colleges	Premchandani Sanjay	128
28.	Smart College: Need of the Hour?	Ravikumar P and Baskaran G	133
29.	Outcome based education, a step towards smart college	Shah, Tejas Shah, Deena Ramesh Bindu, Joshi Vikrant	137
30.	Smart Practices For Quality Enhancement Vescop- Trudging With A Smart And Holistic Education System	Shidhaye, Supriya Kathpalia Harsha, Prabhu Vasudha	143
31.	A Study On Avishkar Research Convention And Participation Of Students	K. V. Sukhatankar, K. Bhide V. V.	146
32.	In-House Research: A Tool To Inculcate And Develop Research Culture Among Students	Sukhatankar, K. V., Sawant R. G.	152
	Author Index		158



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