

2.2.1 The institution assesses the learning level of students and organises special programmes for advance learners and slow learners

		Table of content	
S.No	- Year	Particular	Page number
- 1		Process	1-4
2		Guidelines for identifying the slow and advanced learners	5
4	2022 22	Circular	6
5	2022-23	List of slow learners	7
6		Time table for remedial lectures (session- July - Dec 2022)	8
7		Attendance	9
8		Theory sessional Marks	10
9		List of advance learners with theory sessional marks	10 - 11
9		Certificates	12 - 32









2.2.1 The institution assesses the learning level of students and organizes special programmes for advance learners and slow learners

Process of Assessment:

Institute identifies learning levels of students in every semester using the grades obtained in first sessional examination in theory and practical. Students with less than fifty percent score are considered as slow learners and those scoring fifty percent and above are considered as advanced learners.

Special Programmes for slow learners:

Remedial classes of the courses in which students score less than fifty percent are organized to clear their basics in respective courses. Special attention is given to slow learner during remedial class and practical hours. A time table along with instructor is prepared by the academic committee and the lectures are conducted after regular academic schedule. Study materials are also provided for subjects that require improvement.

Efforts taken towards learning needs of advanced learner:

Advanced learners are encouraged to participate in the research activity of the institute. These students are motivated and guided to participate in various intercollegiate competitions and national/international conferences. Advanced learners are encouraged to enroll in Swayam/NPTEL courses. Advanced learners are guided for publishing research papers in reputed journals.









INDORE INSTITUTE OF PHARMACY

Mechanism

On the basis of their preceding exam performance, current subject performance and class observation, learning speed students can be classified in two group:

- Advance Learner
- · Slow Learner

Each type of students has different learning attitudes and learning habits. A faculty has to adapt a teaching methodology such that he/she may not lose the attention of the slow learners and turn off the advanced learners. Based on the ability determined, some students need only guidance and some students need a hard work and regular attention.

The purpose of assessment of the learning levels of the students and conduction of activities for them is

- ☐ Identification of the slow learners and advanced learners in the class.
- ☐ To ensure that slow learners and advanced learners are taken care as per their needs.
- □ To help them out for improvement in their academics. And be equal to all students

The remainder of this manual describes the constituent parts of the slow learner and advanced learner identification process and activates for them and includes guidance on process.

Process Input:

To start identification of slow and advanced learner process following inputs is needed

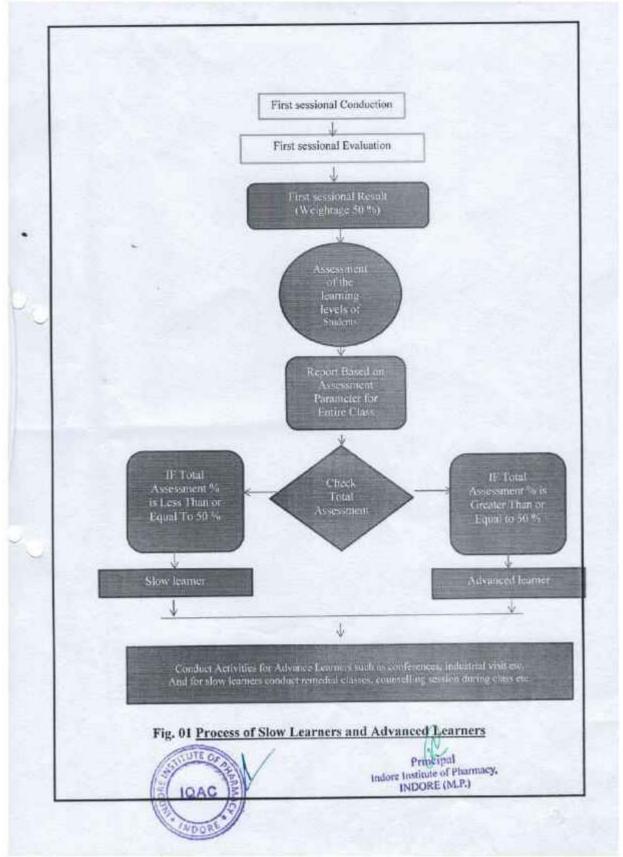
- First sessional result
- Class observation by subject teachers

Process of Slow learners and Advanced Learners (Identification and Activities):

The process of assessment of the learning levels of the students and conduction of activities for them should be carried out through a systematic procedure as shown in the flow chart and explained in detail as below:















Guidelines for identifying Slow and Advanced learners (For session 2022-23)

- The subject teacher is responsible for finding slow and advanced learners from their respective courses.
- Students having less than 50% marks in the 1st sessional examination will be considered slow learners and greater than 50% as advanced learners.
- Slow learner students will be provided, extra classes. A separate timetable will be prepared for their remedial classes and coordinators will be appointed for each class separately.
- 4. In the 2nd sessional examination, these students will be observed for improvement and if they secured more than 50% marks, they will be converted to advanced learners, if they secure less than 50% again, extra classes will be organized.
- Advanced learners are encouraged to participate in online courses, publishing papers in reputed journals and delivering a topic during aptitude/Soft skill workshop sessions.

Signature of Principal

Indore Institute of Pharmacy, INDORE (M.P.)

- Copy to all faculties











22/09/2022

Circular

This is to inform that all the students of B.Pharm 5th Semester are informed that whose names are in slow learner list are advised to attend remedial classes for improvement.

Remedial classes will be continued till 2rdsessional examination. Time table for remedial classes is displayed on the notice board.

IQAC ORE AND ORE

Principal







22/09/2022

Time table for Remedial lectures(Session-July- Dec 2022)

Class: B.Pharm, Part III Semester V

DAY/Time	1:15pm-2:15pm	2:15pm-3:15pm	3:15pm-4:15pm
Friday	BP501T Medicinal Chemistry (YY)	BP502T Industrial Pharmacy I (NS)	BP503T Pharmacology III (RB)
Saturday	BP504T Pharmacognosy (PP)	BP505T Phar, Jurisprudence (NL)	(Ab)



Signature of Principal







INDORE INSTITUTE OF PHARMACY INDORE THEORY SESSIONAL

B. Pharm. Part III Semester: V SUBJECT: Industrial Pharmacy-1 SUBJECT CODE::BP502T

List of Slow learners

S.no.	Name of students	First sessional marks
		Max marks-15
0845PY201028	DIPANSHU YADAV	6
0845PY201050	MAYANK SINGH GOYAL	4
0845PY201051	MEGHA SISODIYA	3
0845PY201066	QUSALIAMALI	6
0845PY201076	ROHIT	6
0845PY201077	ROHIT MANDLOI	3
0845PY201087	SHIVAM PATEL	6
0845PY201090	SHUBHAM	6
0845PY201094	SIYA SOLANKI	6
0845PY201107	YASH PATIDAR	6
0845PY213D03	MOHIT PATEL	-4



Principal Indore Institute of Pharmacy, Subject In charge INDORE (M.P.)









ATTENDANCE

1. 0845PY 201028 Dipanuhu Yadau PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP	S. No.	Enrollment No.	Student Name	Month Date Lecture No.	3/3	3/6	'Y/.	ey,	٧,	3/11.	2/11	10/11	17,1	2/11		
P P P P P P P P P P P P P P P P P P P				Luciure No.	1	2	3	4	5	6	7	8	9	10		
2 Object 201050 Mayank Singh Moyal P A P P P P P P P P P P P P P P P P P	1	0845PY 201038	Digwishy Yaday		P	Đ	A	p	0	+	ρ	0	P	A		
3 OTHER PROJECT Megha Siturdiya PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP		Charles of the Party of the Par	Mayank South (noval	P	1			ρ	-	***			none new	П	F
TO DESTRIPTION OF PARTIES OF PART			Mecha Sundiya	0	P		ρ	P		n	0	P	P	in a		
STUTE OF STATE OF STA			Quai Jamali		A	P	P	ρ	P	P	e	P	P	P		
6 SEUSPYROUTH Rehit Mandlei PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP			Robit		-	1544	p	ρ	p	P	-	P		0	1	
P SSYLPY201057 Shubham Palel P P P P P P P P P P P P P P P P P P					-		0	ñ	a	P		-	ρ	-	7	
8 CHAIRT SO 1090 Shubbarn R P P P P P P P P P P P P P P P P P P					P	4	100	9	P	P	-		A	0		
3. 0146Px201034 Siya Selamki PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP			Shubbarn			P	P	P	P	9		-	-	P		
11- 05 48 7 94 3 003 Mobil Patel PAPAPAPAPAPAPAPAPAPAPAPAPAPAPAPAPAPAPA	3-	0345 17201934	Siva Solanki	The	P	p	A	P	ρ	A	P	e	P	9	T	П
11- 05-KPY 243 DC3 Mobil Patel PAPAPAPAPAPAPAPAPAPAPAPAPAPAPAPAPAPAPA			Yash Patidas		P	P	P	A	P		9	P	P	P	T	
Principal Indore Institute of Pharmacy, (NIPORE (M.P.)			Mobil Patel		P	A	8	A	P	9	P	P	f	A		
		IQAC	VI restore to	critute of Phan	mas	у.										









List of Slow learners

INDORE	INSTITUTE OF PHARMA	ICY INDOI	RE
	THEORY SESSIONAL	They are	
	B. Pharm. Part III Semeste	r: V	
SUBJECT	: Industrial Pharmacy-I SUBJECT	CODE :BP502T	(DEC
Enrollment number	NAME OF STUDENT	First Sessional	Second Sessional
	CO MAPPED	Total	
	MAX MARKS	15	15
0845PY201028	DIPANSHU YADAV	6	8
0845PY201050	MAYANK SINGH GOYAL	4	8
0845PY201051	MEGHA SISODIYA	3	Absent
0845PY201066	QUSALJAMALI	6	8
0845PY201076	ROHIT	6	8
0845PY201077	ROHIT MANDLOI	3.	7
0845PY201087	SHIVAM PATEL	6	9
0845PY201090	SHUBHAM	6	8
0845PY201094	SIYA SOLANKI	6	8
0845PY201107	YASH PATIDAR	6	8
0845PY213D03	MOHIT PATEL	4	9



Principal
Indore Institute of Pharmacy.
INDORE (M.P.)

Subject In charge Ms.Nayany Sharma









List of Advanced Learners

INDORI	INSTITUTE OF PHARMACY	INDORE
	THEORY SESSIONAL	
	B. Pharm. Part III Semester: V	
SUBJEC	T : Industrial Pharmacy-I SUBJECT CODE	:ВР502Т
Enrollment number	NAME OF STUDENT	First Sessional
	CO MAPPED	Total
	MAX MARKS	15
0845PY201001	AARTI CHOUHAN	10
0845PY201002	ABHISHEK SOLANKI	8
0845PY201003	ADARSH BAJPAI	13
0845PY201004	AJAY	10
0845PY201005	AJAY SISODIYA	8
0845PY201006	AKASH SAINI	8
0845PY201007	AMIT PATEL	12
0845PY201008	ANJALI PATIDAR	13
0845PY201009	ANKIT	8
0845PY201010	ANKIT PARIHAR	9
0845PY201011	ANSHIKA SOLANKI	14
0845PY201012	ANURAG SINGH PARIHAR	10
0845PY201014	ASHISH PATEL	9
0845PY201015	ASHISH RAGHUVANSHI	8
0845PY201016	ASHUTOSH	11
0845PY201017	ASHUTOSH PATEL	10
0845PY201019	ASHUTOSH SINGH THAKUR	12
0845PY201021	AVANI VERMA	8
0845PY201022	BHAGWAN SINGH DANGI	12
0845PY201023	CHETAN KUMAR MISHRA	9
0845PY201024	DEEPSHIKHA YADAV	8
0845PY201025	DEEPTI KAUSHIK	12
0845PY201026	DEVENDRA PARIHAR	9
0845PY201029	DISHA DINGRODIYA	10
0845PY201032	GAURAV BAIRAGI	9
0845PY201033	GAURAV JAISWAL	12
0845PY201035	HARSH RATHORE	10
0845PY201036	HARSHITA MANDLOI	9





Indore Institute of Pharmacy, Indore

0845PY201037	HARSHRAJ RANAWAT	10
0845PY201038	HIMANSHU	8
0845PY201039	JAGDISH DANGI	10
0845PY201040	JAY SONI	8
0845PY201042	JAYDEEP KUMAWAT	8
0845PY201043	JYOTI CHAUDHARI	12
0845PY201044	KAJAL BHARAMBE	14
0845PY201045	KARAN ANJANE	8
0845PY201046	KENISHA BHATIA	14
0845PY201048	MANAS SINGH CHOUHAN	9
0845PY201049	MANISH SINGH	10
0845PY201053	MOHIT PATIL	9
0845PY201054	MURLI PATIDAR	8
0845PY201056	NIKHIL PATANKAR	9
0845PY201057	OM MAHAJAN	14
0845PY201058	PAELY GRACY RAO	12
0845PY201059	PALAK SONI	1.1
0845PY201060	PRACHI CHOUDHARY	- 11
0845PY201062	PRERNA VANJARE	8
0845PY201063	PRITAM VISWAS	11
0845PY201064	PRIYA GUPTA	12
0845PY201065	PRIYANSHU BHAWSAR	8
0845PY201067	RAHUL DANGI	8
0845PY201068	RAHUL DEVHADE	.9
0845PY201070	RAJ KUMAR YADAV	8
0845PY201072	RAUSHAN KUMAR	12
0845PY201074	RIYA SOLANKI	9
0845PY201075	RIZWAN AHMAD	14
0845PY201078	ROSHANI PATEL	8
0845PY201079	SACHIN CHOUHAN	9
0845PY201080	SAMRIDDHI BHATI	9
0845PY201081	SANDEEP SAKET	9
0845PY201082	SANSKAR CHOUHAN	9
0845PY201085	SAURABH	8
0845PY201086	SAVITA THAKUR	10
0845PY201088	SHIVANI DEVDA	7
0845PY201089	SHIVPAL SISODIYA	8
0845PY201091	SHUBHAM KAPSE	- 11
0845PY201092	SHUBHOJEET VISHWAS	12
0845PY201095	SONALI PATEL	13
0845PY201096	SONALI PUROHIT	13
0845PY201097	SONU CHOUHAN	8
0845PY201098	TANMAY SHARMA	13
AUTE OF		(0)



Indore	Institute of Pharmacy, I	ndore
--------	--------------------------	-------

0845PY201100	TANYA SRIVASTAVA	13
0845PY201101	TUSHAR KUMAR	12
0845PY201102	UJJWAL VANI	8
0845PY201103	UPMA SHUKLA	12
0845PY201104	VANSH BHAWSAR	9
0845PY201106	YASH KUMAR KUSHWAH	10
0845PY201108	YASH RAWKA	13
0845PY201109	YASHRAJ	- 11
0845PY201110	YUVRAJ PATEL	9
0845PY213D01	ABHISHEK KUMAR THAKUR	14
0845PY213D02	AJAY CHOUDHARY	9
0845PY213D04	PRIYANKA DEPALE	11
0845PY213D05	SHEETAL DONGRE	11
0845PY213D06	VARSHA SHARNAGAT	11
0845PY213D07	YASHIKA JOSHI	10
0889PY201001	AAKANSHA MAHAJAN	9



Subject Incharge Ms.Nayany Sharma







21/10/2022

Circular

This is to inform that all the students of B. Pharm 5th Semester are informed that whose names are in slow learner list as per the result of 2th sessional examination are advised to attend remedial classes for improvement.

Remedial classes will be continued till the commencement of end semester examination. Time table for remedial classes is displayed on the notice board.

Principal









Indore Institute of Pharmacy, Indore

25/10/2022

Time table for Remedial lectures Session-July- Dec 2022)

Class: B.Pharm. Part III Semester V

-DAY/Time	1:15pm-2:15pm	2:15pm-3:15pm	3:15pm-4:15pm
Friday	BP501T	BP502T	HPS03T
	Medicinal Chemistry (YY)	Industrial Pharmacy I (NS)	Pharmacology III (RB)
Saturday	BP504T Pharmacognosy (PP)	BP505T Phar. Jurisprudence (NL)	

Principal.











24/09/2022

Circular

This is to inform that all the students of B. Pharm 7th Semester are informed that whose names are in slow learner list are advised to attend remedial classes for improvement.

Remedial classes will be continued till 2^{nd} sessional examination. Time table for remedial classes is displayed on the notice board.

Principal









24/09/2022

Time table for Remedial lectures (Session- July- Dec 2022)

Class: B. Pharm. Part IV Semester VII

Day/Time	1:15pm-2:15pm	2:15pm-3:15pm	3:15pm-4:15pm
Friday	BP70TT Instrumental Methods of Analysis (GS)	BP702T Industrial Pharmacy II (NS)	BP703T Pharmacy Practice (DJ)
Saturday	BP704T NDDS (NF)		



Principal
Principal
Indoor Institute of Pharmacy.
INDORE (M.P.)







INDORE INSTITUTE OF PHARMACY INDORE

THEORY SESSIONAL

B. Phann, Part IV Semester: VII

SUBJECT : Pharmacy Practice SUBJECT CODE BP703T

List of Slow learners

Name of students	First sessional marks
	Max marks-15
VANSH VERMA	7.
ROHIT LOVEVANSHI	7
JATIN KESHIYA	6
MANISH VERMA	7
VINAY CHOUHAN	6
	VANSH VERMA ROHIT LOVEVANSHI JATIN KESHIYA MANISH VERMA

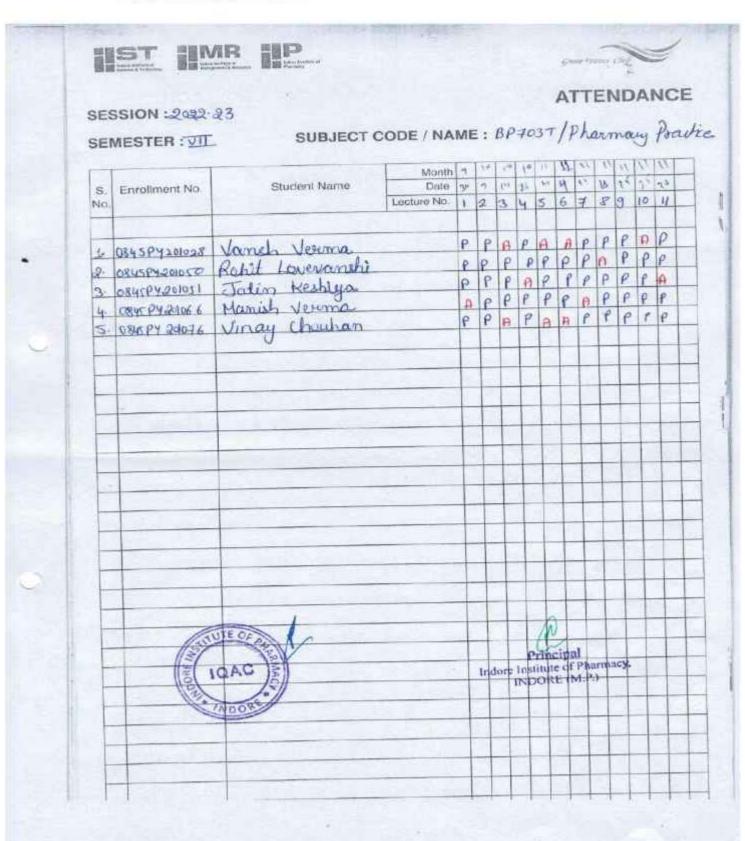


Principal Indore Institute of Pharmacy, INDORE (M.P.)

Principal













List of Slow learners

INI	DORE INSTITUTE OF PHARM	IACY INDORE	
	THEORY SESSION	VI.	
	B. Pharm. Part IVth Semes	ter: VII	
SUBJE	CT : Pharmacy Practice SUBJE	CT CODE :BP70)3T
Eurollment number	NAME OF STUDENT	First Sessional	Second Sessional
	CO MAPPED	Total	
	MAX MARKS	1.5	
0845PY201028	VANSH VERMA	7	8
0845PY201050	ROHIT LOVEVANSHI	7	8
0845PY201051	JATIN KESHIYA	6	9
0845PY201066	MANISH VERMA	7	8
0845PY201076	VINAY CHOUHAN	6	10



Principal
Indore Institute of Pharmacy,
INDORE (M.P.)

Subject Incharge Mr. Darshan Jamindar









1 1 1 1	INDORE INSTITUTE OF PHARMACY INDORE
	THEORY SESSIONAL
	B. Pharm. Part IVth Semester; VII
	SUBJECT : Pharmacy Practice SUBJECT CODE :BP703T

List of advanced learners

Enrollment	NAME OF STUDENT	First sessional
The second of th	CO MAPPED	Total
	MAX MARKS	15
0845PY191001	AASTHA JAISWAL	11
0845PY191002	AAYUSHI ARORA	12
0845PY191003	AAYUSHI RATHORE	14
0845PY191007	ADITYA SHARMA	11
0845PY191011	AKHILESH SIRVI	13
0845PY191014	AMAN THAKUR	12
0845PY191016	ARPAN RATHORE	12
0845PY191018	AYUSHI PATEL	13
0845PY191020	BALRAM RAJPUT	12
0845PY191021	BHAGYASHREE YADAV	Н
0845PY191022	DEEPAK YADAV	1)
0845PY191023	DHANANJAY TANWAR	12
0845PY191024	DIPENDRA SINGH CHOUHAN	13
0845PY191025	DURGESH SHARMA	11
0845PY191026	FATEMA KUKSHIWALA	14
0845PY191027	GARIMA VYAS	14
0845PY191028	GAYATRI PATIL	13
0845PY191029	HIMANI DUBEY	13
0845PY191030	HITESH WARKE	12







0845PY191031	Indore Institute of Phar	macy, Indore
0845PY191035	KANAK BHARDWAJ	12
0845PY191035	KARAN RAKESH PAWAR	12
0845PY191037	KARAN SINGH JHALA	13
0845PY191037	KHUSHAL BHILOTIYA	12
0845PV191039	KRISHNA	12
		11
0845PY191040	KUNAL RAI LOKESH GEHLOT	13
0845PY191042	THE STORES OF TH	12
0845PY191043	MANASVI DUBEY	
0845PY191045	MAYURI PATEL	14
0845PY191046	MEGHRAJ NIGODIYA	12
0845PY191047	MOHAN	12
0845PY191049	MOHHAMAD ARSHAD	11
0845PY191050	MOHIT SOLANKI	11
0845PY191051	MUKESH PAWAR	12
0845PY191052	NAYAN JOSHI	11
0845PY191053	NEHA TIRKEY	14
0845PY191054	NITESH PATIDAR	12
0845PY191055	PANKAJ PANWAR	12
0845PY191056	PARUL BHORIYA	11
0845PV191057	PAVAN BAMNIYA	12
		12
0845PY191058	PAWAN PATIDAR	
0845PY191059	PRABHAKAR	10
9845PY191060	PRACHI BOREKAR	1.1
0845PY191061	PRADHYUM PATEL	14



Principal
Indore Institute of Pharmacy,
INDORE (M.P.)

Principal







21/10/2022

Circular

This is to inform that all the students of B. Pharm 7th Semester are informed that whose names are in slow learner list as per the result of 2th sessional examination are advised to attend remedial classes for improvement.

Remedial classes will be continued till the commencement of end semester examination. Time table for remedial classes is displayed on the notice board.

Principal









24/09/2022

Time table for Remedial lectures(Session-July- Dec 2022)

Class: B. Pharm. Part IV Semester VII

DAY/Time	1:15pm-2:15pm	2:15pm-3:15pm	3:15pm-4:15pm
Eriday	BP701T Instrumental Methods of Analysis (GS)	BP7023' Industrial Pharmacy II (NS)	BP703T Plusmacy Practice (DJ)
Saturday	BP704T NDDS (NF)		



Principal



Indore Institute of Pharmacy, Indore

20/09/2022

Circular

This is-to inform to all the students of M. Pharm 3rd Semester that whose names are in slow learner list are advised to attend remedial classes for improvement.

Remedial classes will be continued till 2ndsessional examination. Time table for remedial classes is displayed on the notice board.

Principal





21/09/2022

Time table for Remedial lectures (Session-July- Dec 2022)

Class: M.Pharm. Semester III

Day/Time	2:15pm-3:15pm	
Friday	MQA301T	
	Research methodology and biostatistics	
	(GSC)	
Saturday	MQA301T	
	Research methodology and biostatistics	
	(GSC)	
	(GSC)	

Signature of Principal







INDORE INSTITUTE OF PHARMACY INDORE

THEORY SESSIONAL

M. Phann, Part II Semester: III

SUBJECT: Research methodology. SUBJECT CODE: MQA301T

List of Slow learners

This is inform that there is no slow learner for the MQA-301T (research methodology and biostatistics)



Subject In charge Dr. Gurmeet Chhabra





INDORE INSTITUTE OF PHARMACY INDORE

THEORY SESSIONAL

M. Pharm, Part II Semester: III

SUBJECT: Research methodology and biogratistics SUBJECT CODE: MQA301T

List of advanced learners

Enrollment number	NAME OF STUDENT	First sessional
The state of the s	CO MAPPED	Total
*	MAX MARKS	15
0843PY191001	ANKITA BHADORIYA	14
0845PY 191002	NIEL DANILLE	14
0845PY191003	RAJA PATHAN	12
0845PY191007	TANVI SHARMA	14

Principal







Whater to : RDPs(Shope) (Approved by : ARTR(New Selle) & PC(New Selle)

172 PATENT APPLICATED/PUBLICATION

OW INDIA

(22) Date of Eliza of Application 24 19 2023

(21) Application No.2021216[3460 A.

(Di héliotes Bee: 2011/2023

350 Tage of the inventors POR YHERBAL TABLET FORMULATION WITH ANTI-TUSSIVE ACTIVITY

Oli Institutional ASI Exchangemento ASI Exchange

(80 International NA Application No NA Filing Dute NA

Filing Dure
(K7) International : NA
Publication No.
(64) Parent of Addition

to Application Number NA Filing Date (62) Decisional Son Application Number NA Filing Date Ti)Name of Applicant: I/Mr. Yosh Rawka

Address of Applicant Student, before Institute of Plannacy, Judger, Madhya Pradesh-157711, Judia Indon

200s. Priyanski Jain

JiDr. Pritish Paliscal

4/Dr. Nadrem Ahmed Farusqui

5:Ms. Himani Jaisinghani Name of Applicant : NA Address of Applicant : NA

TEName of Inventor : 1 Mr. Yash Ravka

Address of Applicant Student Indoor Institute of Plantacy. Indoor, Madica Pealesh 45 (111). India Indoor.

100s Privatski Jain

Address of Applicant Student, Balter Institute of Plannacy, Indian, Medica Praded-497711, India Indon

(57) Abman

The person operation provides a polyherhal formalism. The polyherhal formalism, composing of Sarcharum officination L. Carcana, Syregium arminism. Trachy person among Pipe nigram. Eagiler officinate: Gryophics glaba. Months and plantasisms. By acceptable exciption of Sarcharum officination L. 25%. Carcana 15%: Surgium arminisms. 6.25%. Trachy person among 5.25%. Trachy person among 5.25%. Trachy person among 5.25%. Paper nigram 7.5%. Zingdon officination 7.5%. Gryophica glaba (2.25%. Woods haves 6.25% and plantasisms of particular exciption (1.05%). The polyherhal formalisms is the formal alternative to care cough storet, see those, and dryops. The polyherhal formalisms has the purplet of particular approximation of the polyherhal formalisms.

Sic of Pages: 11 No. of Clause: 4



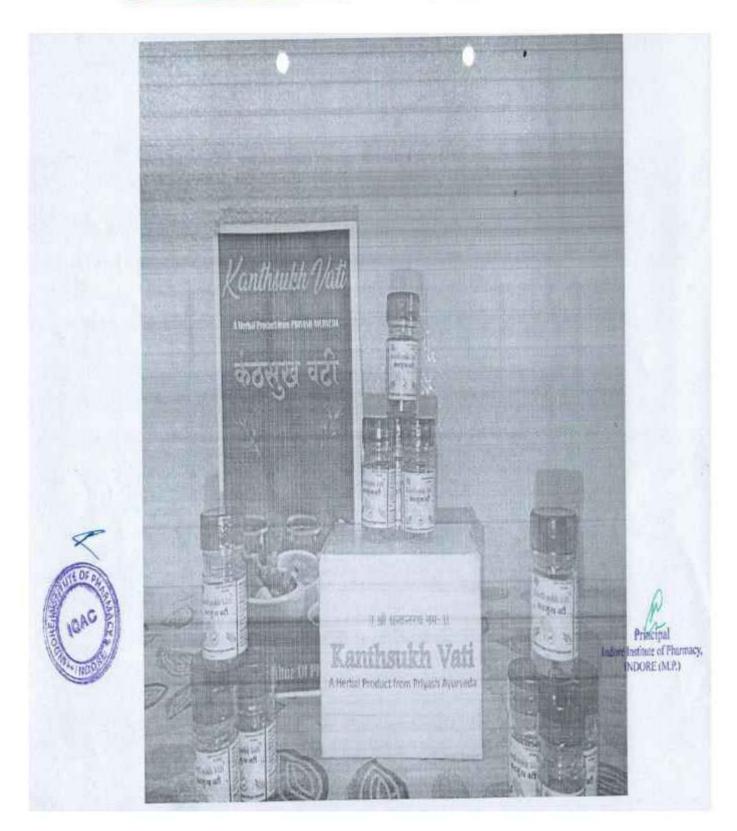
Principal Indore Institute of Pharmacy, INDORE (M.P.)

The Patent Office Journal No. 47/2023 Dated. 24/11/2023

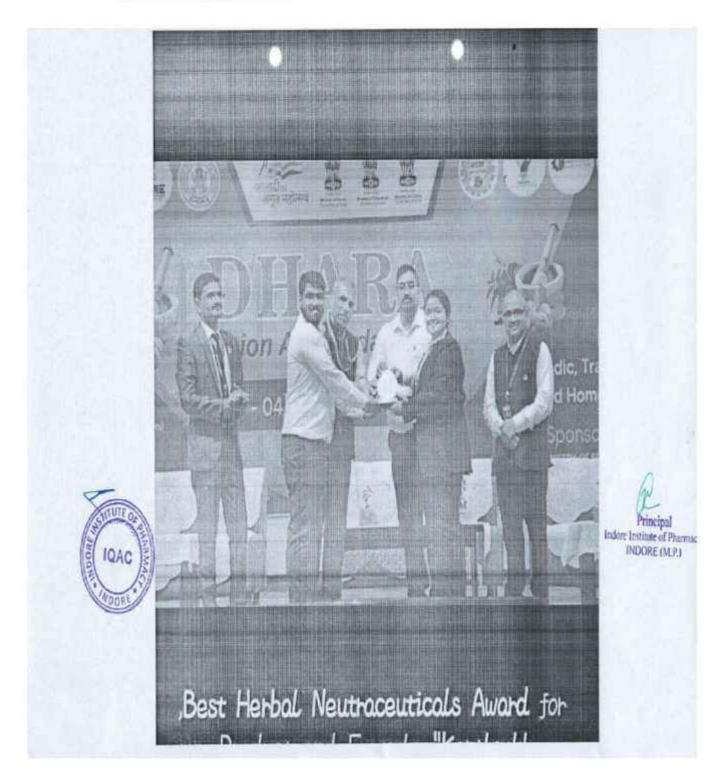
78933





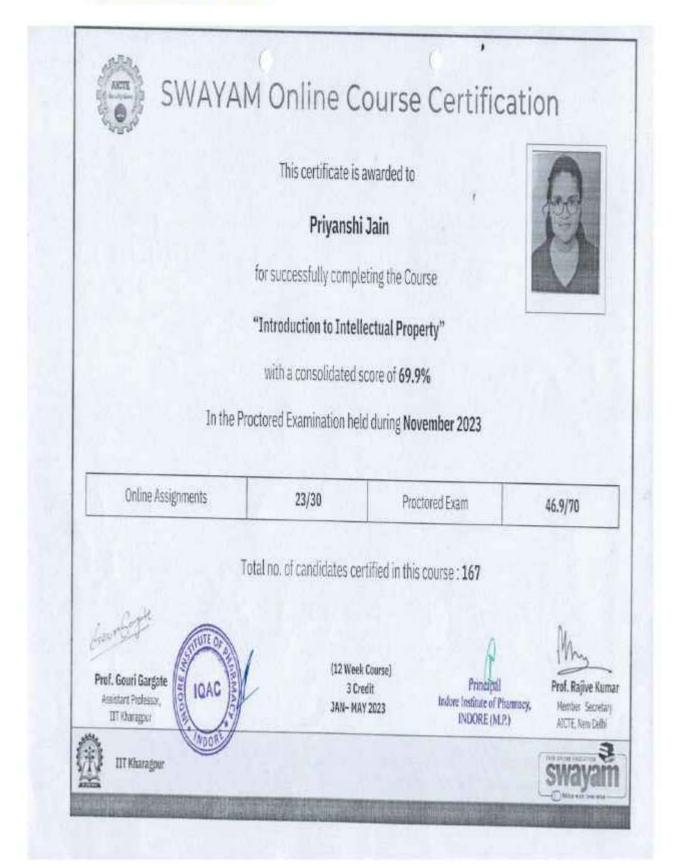




























INSTITUTE OF PHARMACEUTICAL SCIENCES TWO DAYS NATIONAL CONFERENCE & EXHIBITION

sponsored by IKS Division, Ministry of Education & supported by Ministry of Ayush, Ministry of Culture and MSME.













Vision Ayurveda 2047

Award of Excellence

This is to certify that

Yash Rawka Dr/Mr/Ms...t

Indore Institute of Pharmacy

2st. position as Formulation in Poster & Product Competition under Method Monthamplicale Category in the

Two Days National Conference on "Har Din Har Ghar Ayurveda" (Formulation, Regulatory, Quality Control & Assurance, If Protection and Incentivization Aspects) and Exhibition on "Ayurvedic, Traditional, Herbal Neutraceutical and Home Remedies Formulations"

d on 03" & 04" November 2022 under "Dhara Vision Ayurveda 2047" organized by Institute of Pharmaceutical Sciences.

SAGE University, Indore (M.P.)



Dt. Raghvendra Dubey Opning Duran SACE Unwruly, Index

Dr. Ankur Am Vor Daniel SACE Driventy, Indian

Principal Indore Institute of Pharmacy, INDORE (M.P.)

Dr. G.S. Murthy National Continue 18.5 Division, Massity of Education













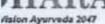




INSTITUTE OF PHARMACEUTICAL SCIENCES TWO DAYS NATIONAL CONFERENCE & EXHIBITION

sponsored by IKS Division, Ministry of Education & supported by Ministry of Ayush,
Ministry of Culture and MSME.

















Award of Excellence

This is to certify that

Ms. Phiyanshi Jain of Indore Institute of Pharmacy

ed position as Formulation in Poster & Product Competition under Hethal Stratage Cate tys National Conference on "Har Din Har Ghar Ayurveda" (Formulation, Regulatory, Quality Control & Assurant and Incentivization Aspects) and Exhibition on "Ayurvedic, Traditional, Herbal Neutraceutical and Home Remedies F d on 03" & 64" November 2022 under "Dhara Vision Ayurveda 2047" organized by Institute of Pharmaceutical Scient SAGE University, Indore (M.P.)

Dr. Missel Dongre Organing Secrety SAGE University, Indoor

Dr. Ragimendra Dubey Organizer Charmon SAGE University, Indust Dr. Frankjunt Jahr. Fro-Chanceline SACE University, Indoor

Dr. G.S. Murthy National - Countinasse IKS Division, Ministry of Education





Preparation, Formulation and Evaluation of Herbal Cough Lozenges

Authors: Priyanshi Jain*, Yash Rawka*, Dr. Pritesh Palliwal

Indore Institute of Pharmacy, Indore, M.P., India

E-mail address: yashrawka2002@gmail.com, chipriyanshijain2003@gmail.com

ABSTRACT

In today's world, throat infection are most common disease but people do not take it seriously. However it leads to a painful condition such as soreness of throat, cough, pharyngitis and also cancer. Lozenges are solid, unit dosage form of medicament usually in a flavored, sweetened base, that are intend to dissolve or disintegrate slowly in the mouth or pharynx. They are designed in such a way to be released slowly to yield a constant level of drug in the oral cavity. Since soft lozenges can be made at home by using simple ingredient and helpful in treatment of throat infection by using simple techniques. The homogenous mass was dispensed in molten mass of jaggery base, the prepared mixture was poured in a suitable mould to get desired shape as well as texture, and the formulation was further evaluated on the basis of organoleptic characters and other pharmacopoeial parameters. From above evaluation it can be concluded that the soft lozenges presented under brand name **Kanthsukh Vati** can be used for treatment of initial stage of cough, throat irritation, sore throat, throat infection and other respiratory diseases.

Keywords: Cough, Throat Infection, Kanthsukh Vati.

INTRODUCTION

Coughing occurs as a defensive reflex due to stimulation or reflex arc. Coughing causes clearance of secretion and particle as a reflex action. It is a protective action against foreign particles and certain pathogens. It is also important to clear secretions associated with inflammation and infection. Though cough has role of protection, productive cough causes trouble and harm to mucosal layer of airways. Initiation of coughing happens due to irritation of cough receptor present in oropharyngeal usually taken as soothing agents. Lozenges are easy to administer. Due to pleasant taste these are placed in mouth for longer time and sucked the drug



Indore Institute of

released over a period of time to have local effect. Lozenges are solid preparations that contain one or more medicaments, usually in a flavored, sweetened base, that are intended to dissolve or disintegrate slowly in the mouth. They can be prepared by molding or by compression of sugar-based tablets. Development of lozenges dates back to 20th century and is still in commercial production. Most of the lozenge preparations are available as over the counter medications. Lozenge provides a palatable means of dosage form administration and enjoys its position in pharmaceutical market owing to its several advantages.

Types of Lozenges:

Hard Candy Lozenges :- A hard candy or boiled sweet lozenges is a sugar candy preaged from one or more sugar based syrups that is heated to a temperature of 160 degree celcius (320 degree Ferhnite) to make candy. Among the many candy variteis are sticky candy such as candycan, lollipops, rock, aniseed twists.

Soft Candy Lozenges: - Soft lozenges have become popular because of the ease of extemporaneous preparation and applicability to a wide variety of drug the basis usually consist of a mixture of various polyethylene glycols, acacia or similar material. One form of these soft lozenges is the pastille, which is defined as a soft variety of lozenge, usually transparent, consisting of medication in a gelatin, glycerogelatin or acacia.

Chewable Lozenges:- They are very highly flavored and many often contain a slightly acidic taste. They are an excellent way of administrating drug produce as the taste of the drug often can be masked very effectively with fruit-flavored product. The most difficult part involves the preparation of the gelatin based. They are especially used for pediatric patients and are a very effective means of administrating medications for gastro intestinal absorption and systematic use.

Compressed Tablet Lozenges:- Commercially, the preparation of lozenges by tablet compression is less important than hard- candy manufacturing techniques. Essentially, lozenges tablets differ from convention tablets only in their organoleptic and non disintegrating property and slower dissolution rate...

Advantages:

It is easy to administer to both pediatric and geriatric patients.

. It has a pleasant taste and will extend the time a quality of drug remains in the oral cavity to elicit local activity.

Keeping the drug in contact with the oral cavity for an extended period of time

woid the first pass metabolism of medicine.

not require water for intake.

Principal





Disadvantages:

- · It could be mistakenly used as candy by children.
- · Heat unstable drugs are suitable.
- Parents should be cautioned not to associate medication with candy and to keep the product out of the reach of children.

METHODOLOGY

Procurement of Plant Material:

All the raw material was procured from local market of crude herbs in Indore. Identification of plant material was done by botanist of local market and the specimens of plant material are deposited at institutional laboratory. Saccharum officinarum L is used as base for the lozenges was procured from local market.

Processing of Plant Material:

The material was cleaned and thoroughly dried in oven at temperature not exceeding 60°C. All the plant material were powdered individually using simple mixer blender available in lab and sieve it through sieve no. 14 and then stored in airtight container away from light till further use.

Instruments:

For quality assessment of formulation different instruments used that is available in central instrumentation room of institute. Silicone Mould used for the preparation of lozenges was procured from local market in Indore.

Formulation:

Hard candy lozenges were prepared using jaggery as base. The technique used was "Dry Granulation". All powdered material were weighed (Table 1) and mixed homogeneously. Weighed quantity of jaggery was melt on water bath. Keep it for cool at low temperature, slug was formed. Slug was crushed and Powder mixture was added to it. Once mixture was thoroughly mixed, clove oil was added to it with continuous stirring. The mixture was poured into hopper and vatis were formed by tablet punching machine. The prepared vati's were evaluated for different pharmacopoeial parameters and packed in packing material and label.



Principal Indore Institute of Pharmacy, INDORE (M.P.)



Table 1: Formula for Herbal Lozenges

Ingredients	Qty.(%)	
Jaggery (Saccharum officinarum L.)	25	
Turmeric (Curcuma)	15	
Clove (Syzygium aromaticum)	6.25	
Ajwain (Trachyspermum ammi)	6.25	
Black pepper (Piper nigrum)	7.5	
Ginger (Zingiber officinale)	7.5	
Liquorice (Glycyrrhiza glabra)	12.5	
Peppermint (Mentha)	1.25	
Excepients	16.25	

EVALUATION OF FORMULATION

Formulation of Vati was developed and sampled and evaluated for different parameters such as microscopically Evaluation, Uniformity of weight, Friability, Disintegration, Determination of ash Value, Swelling Index, Determination of moisture containing.

Microscopically Evaluation:-

These were determining by visual observation for physical appearance and identity. Other organoleptic characteristics such as taste, color uniformity, dimensions also were evaluated. Length and thickness of 20 lozenges samples were determine using vernier caliper and observations are as in the Table: 2, for an average dimension indicating uniformity in the size of lozenges.

Uniformity of Weight:-

Twenty lozenges were randomly sampled and weighted individually on high precision balance. Average weight as well as %deviation for weight for the twenty lozenges was determined.

Hardness Test:-

Principal Indore Institute of Pharmacy, INDORE (M.P.)



Indore Institute of

The hardness testing was done by using Pfizer hardness tester for sampled lozenges and average hardness was determined and the result were indicated as kg /sq cm.

Friability:-

It is determined with a friability test apparatus of veto, Indore, India. Twenty lozenges were collected at random and weighted on a precision balance, lozenges were placed into drums of the apparatus which is then set for 100 revolution. After the test the lozenges were deducted and weighted again. The % friability was calculated using following formula

S.No.	Character	KSV-I	KSV-II	KSV-III
1				
2				
3				
4				
5				
6				10-x = 5
7				

%friability = initial weight - final weight / initial weight *100

Disintegration Time:-

Disintegrating test of the prepare lozenges was performed according to monographic procedure given in USP 34, using a disintegration tester in phosphate Buffer (PH = 6.2) maintained at 37+- 0.5 degree calcius as disintegration medium. Six lozenges were placed in the cylindrical disappearance of lozenges or its particles from the tester net were recorded as disintegration time.

Determination of Ash Values:-

The total ash method is designed to measure the total amount of material remaining after ignition. This includes both " physiological ash" which is derived from the plant tissue itself, and "non-physiological" ash, which is the residue of the extraneous matter (e.g. sand and soil) adhering to the plant surface .



S.No.	Drugs	Total ash (%w/w)
1		
2		
3		

Indore Institute of Pharmacy, INDORE (M.P.)



Indore Institute of

Determination of Swelling Index:-

The swelling index is the volume in ml taken up by the swelling 1g of herbal material under specified condition. Its determination is based on the addition of water or a swelling agent as specified in the test procedure for each individual herbal material.

S.no	Drugs	Swelling Index
1		
2		
3		

Determination of Moisture Content:-

This test is used to determine the water content of a material by drying a sample to constant mass at a specified temperature. To determine the moisture content of the formulation the weighted amount of formulation were processed in hot air oven at 120 degrees centigrade till constant weight obtained and the percent moisture content was calculated.

S.No.	Dosage form	Moisture Content
4		

Determination of Extractable Matter:-

This method determines the amount the amount of active constituent extracted with solvents from a given amount of herbal material. It is employed for materials for which as yet no suitable chemical or biological assay exists. The extractive values were determined as per procedure given in WHO guideline.

S.No.	Drugs	Water Extractive Value (%w/v)	Alcohol Extractive Value (%w/v)
1			
3			

UV-Spectrophotometer:-

UV-Spectrophotometric analysis provides both qualitative standards. But markers are needed for quantitative analysis. An attempt is made to study UV Spectrometric analysis of some herbal raw materials for understanding qualitative and quantitative parameters without markers.

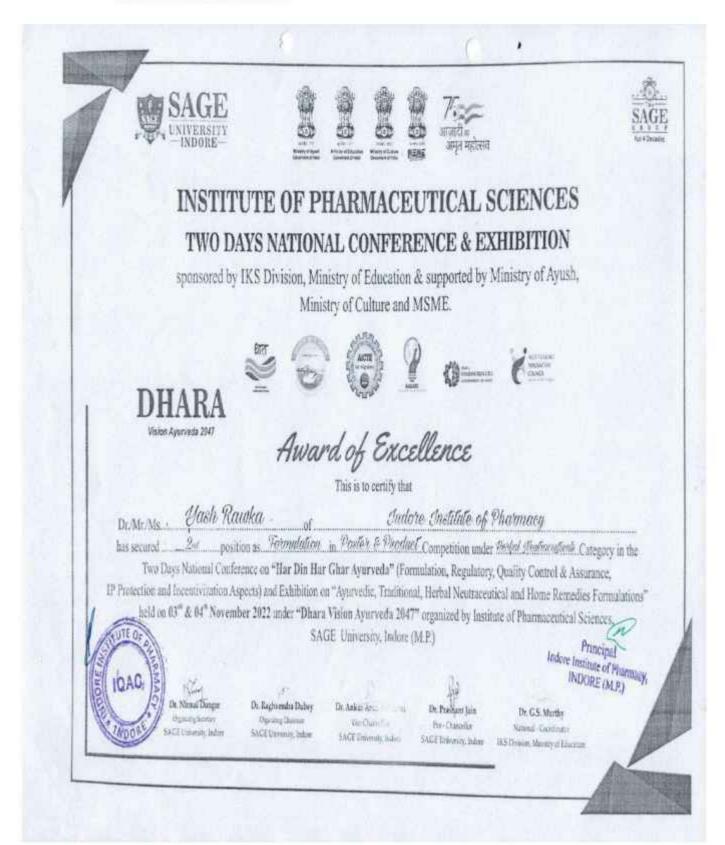
Preparation of Standard Solution for Calibration Curve:-

Stock solution of piperine was prepared by dissolving 100mg of piperine in 100ml of methanol. Standard solutions of piperine were prepared from stock solution in concentration range of 1 ug/ml to 5ug/ml volumetric flask using methanol as

> Principal Indore Institute of Pharmacy, INDORE (M.P.)















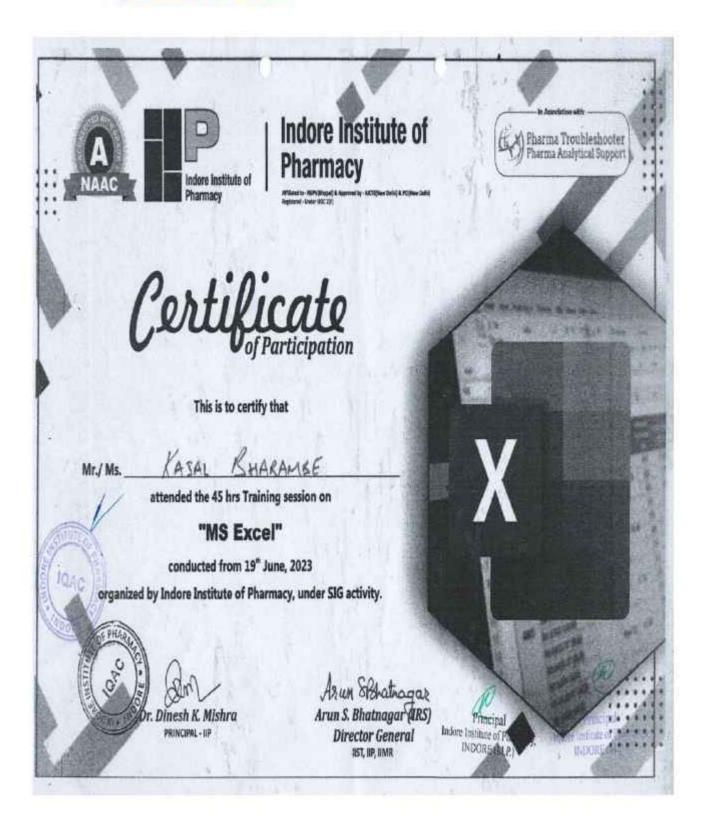


Director General









































tificate of

Two Day National Workshop on "Clinical Research & Drug Development" Organized by SWAMI VIVEKANAND COLLEGE OF PHARMAL / in collaboration with TATA Consultancy Services 14th -15th February 2023

has participated in Two Day National Workshop entitled "Clinical Research & Drug Development" on 14"-15" February2023 as a delegate/resource person/organizing committee member.



Mr. Sachin Mishra (Director)



Indoor Institute of Pharmacy. INDORE (M.P.) Principal Indore Institute of Pharmacy, Que INDORE (M.P.)

Dr. P.K. Dubey Principal, SVCP

Princip

Dr. P.K. Dubey (Organizing Chairman)

Approved by PCI & AICTE, New Delhi; Affiliated to RGPV, Bhopal; Recognized by DTE, Govt. of M.P. Vivekanand Knowledge City: Khandawa Road, Near Toll Naka, Indore-452020 (M.P.) Ph. 07324-405000, E-mail:info@svcp.ac.in, website:www.vivekanadgroup.com









MEDICON 2023



on

"BIOSTATISTICS & RESEARCH METHODOLOGY"

CERTIFICATE

This is to certify that Dr./Mr./Ms. Kafal Bharmanbe
from Indone Institute Of Pharmacy has given a poster/oral presentation
on topic Green Chemishy An Approach Towards Suskinoble Environment in
the National Conference organized on April 1, 2023. He/She has
secured position. His/Her participation is highly appreciated.

LOUBLE DO LOUBLE

Dr. Mousumi Kar Pillai

Organizing Secretary

Dr. Devendra Kumar Pandey

Organizing Secretary

INDORE (M.P.)

Dr. Sanjay Jain

Convenor

doze Institute of Pharmacy, INDORE (M.P.)

Faculty of Pharmacy & Faculty of Management, Medi-Caps University, Indore



























Affiliated to: FEDV(Rhoped) (Appropriate) by ARTE(New Yorks) & PEDNEW States
Register: States (ME 200)









MEDICON 2023



on

"BIOSTATISTICS & RESEARCH METHODOLOGY"

CERTIFICATE

This is to certify that Dr./Mr./Ms. Tyoti (houdhan)

from Indore Institute Of Pharmacy has given a poster/oral presentation on topic Green Chemishy An Approach Javards Sustainable Environment in the National Conference organized on April 1, 2023. He/She has secured position. His/Her participation is highly appreciated.

Dr. Mousumi Kar Pillai

Janu -

Organizing Secretary

Dr. Devendra Kumar Pandey

Organizing Secretary

Dr. Sanjay Jain

Principal Indore Institute of Pharmacy, Convenor

Faculty of Pharmacy & Faculty of Management, Medi-Caps University, Indore









Certificate of Honour

Two Day National Workshop on

"Clinical Research & Drug Development"

Organized by SWAMI VIVEKANAND COLLEGE OF PHARMACY
in collaboration with TATA Consultancy Services

14th -15th February 2023

Mr. Sachin Mishra
(Director)

Dr. P.K. Dubey Principal, SVCP Dr. P.K. Dubey

Principal
Incore Institute of Pharmacy,
INDORE (M.P.)

(Organizing Chairman)

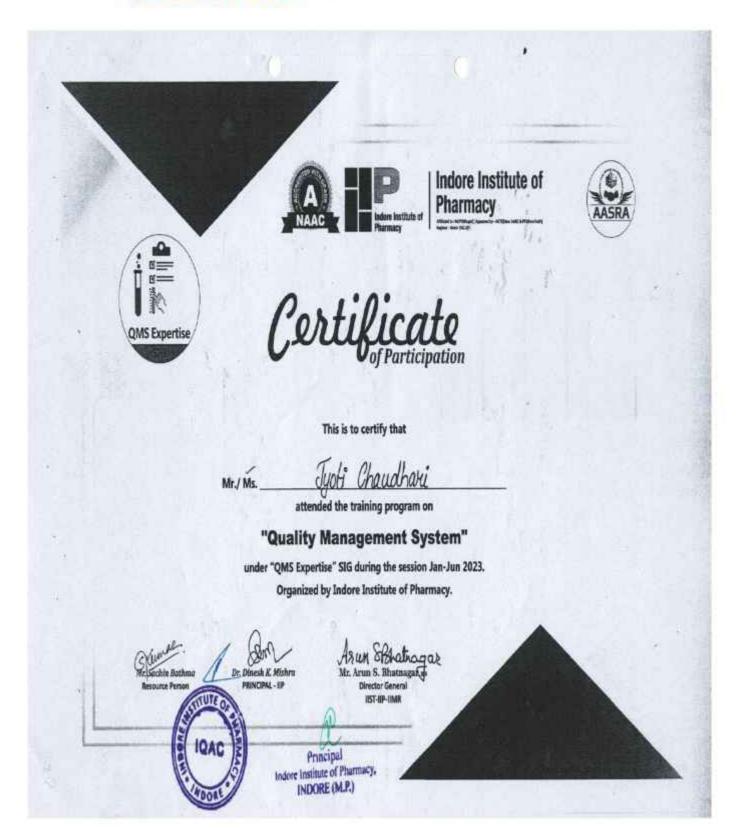
Approved by PCI & AICTE, New Delhi; Affiliated to RGPV, Bhopal; Recognized by DTE, Govt. of M.P.

Vivekanand Knowledge City: Khandawa Road, Near Toll Naka, Indore-452020 (M.P.)

Ph. 07324-405000; E-mail:info@svcp.ac.in, website:www.vivekanadgroup.com























Indore Institute of Pharmacy

armacy



Certificate Of Participation

This certificate is awarded to

Mr.Ms. Jyoti Chaudhasi

for active participation in

SIG on

Sophisticated Instrument Handling Expertise

organized by Indore Institute of Pharmacy on on 19th-30th June, 2023







As un Selatrague Mr. Arun S. Bhatmague Director General BST-UP-1969



















Affiliated to AUTO/Annual (Approved by AKTE/Son Debuj & POlitica Debu

