



Alard Charitable Trust's
Alard College of Pharmacy

Alard Knowledge Park: S.No.50, Marunje
Near Rajiv Gandhi IT Park, PhaseII, Pune- 411057

2.3.1

**STUDENT-CENTRIC METHODS ARE
USED FOR ENHANCING LEARNING
EXPERIENCES**



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Experiential Learning



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Industrial Laboratory



Tablet Coating



Visit to CIF, SPPU, Pune



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Field Visit



EVS Field Visit



NuLife Pharmaceuticals Pvt.Ltd, Bhosari, Pune for T.Y.B. Pharm



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EncubeEthicals Pvt Ltd, Goa for Final Year B. Pharm



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ElectroLab India Pvt. Ltd, Mahape, Navi Mumbai for M. Pharm



Poster Presentation



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Integrated / **Interdisciplinary learning**



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Interdisciplinary learning



Workshop for Pharmaceutical Engineering at ACEM





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Participatory learning



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Small group teaching



Demonstration of Equipments



Small Group Teaching and Group Discussion



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Problem Solving **Methodologies**



Case Studies

Sr. No.	Name of Experiment	Page No.	Date of performance	Date of Submission	Assessment max. marks 10	Sign
①	To find conc. of unknown sol. of Ach by Three point bioassay method using chick ileum	①	19-6-19	26-6-19	9	Mishra
②	To find conc. of unknown sol. of Ach by three pt bioassay method using chick ileum	4	26-6-19	3-7-19	9	Mishra
③	To find conc. of unknown sol. of Ach by four point method using chick ileum	7	3-7-19	10-7-19	8	Mishra
④	To find conc. of unknown sol. of Ach by four point bioassay using chick ileum	10	10-7-19	17-7-19	9	Mishra
⑤	To study FDC of marketed preparation (Amoxicillin + Cloxacillin acid)	13	17-7-19	24-7-19	8	Mishra
⑥	To study critical comparison of fixed dose combination of Rifampicin & isoniazid	17	24-7-19	3-8-19	8	Mishra
⑦	FDC of Isoniazid & Rifampicin	21	3-8-19	14-8-19	9	Mishra
⑧	Critical appraisal for FDC (Zidovudine + lamivudine Nefirapine)	25	8-8-19	14-8-19	9	Mishra



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Sr. No.	Name of Experiment	Page No.	Date of performance	Date of Submission	Assessment max. marks 10	Sign
(9)	FDC of paracetamol + Nimesulide	29	14-8-19	21-8-19	9	Makul
(10)	FDC of Sulphamethoxazole + Trimethoprim	32	21-8-19	28-8-19	9	Makul
(11)	FDC of Domperidone + rabeprazole	36	28-8-19	3-9-19	8	Makul
(12)	FDC of Nimesulide + (Cetirizine + pseudoephedrine)	40	3-9-19	11-9-19	9	Makul
(13)	Comment on prescription - A Case study.	44	11-9-19	13-9-19	9	Makul
(14)	Comment on Prescription - A Case study.	48	13-9-19	18-9-19	9	Makul
(15)	Comment on prescription - A Case study.	51	8-9-19	28-9-19	9	Makul
(16)	Comment on Prescription - A Case study.	53	25-9-19	9-10-19	8	Makul
(17)	Comment on Prescription - A Case study.	56	25-9-19	9-10-19	7	Makul
(18)	Comment on prescription - A Case study.	57	9-10-19	9-10-19	9	Makul
Completed 4/11/19						
Makul						

Marks will be given based on the following criteria : Attendance, regularity & sincerity, Performance, Cleanliness, Completion of Journal, Behavior during practical.

Name of the Student : Aditi Sadunite Roll No. : 32
Total No. of Experiments : 18 Total Marks Obtained : 149
Avg. Marks : 8.2 Date : 4/11/19
Name of Lecturer : Mr. Makul Tambe Signature of Lecturer : Makul



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Internal Sessional Theory Examination 2018-2019 (Semester-VIII)

Year : Final Year B.Pharm

Date:- 28/03/2019

Time : 1 hr

Marks: 20

Sub: Pharmacology- V

Q.1 Solve Any Three

(3X2=6)

1. Explain about "First in Human" studies.
2. A 5 yr. children was prescribed with Penicillin for ear infection & advised to take tablet immediately after breakfast and a glass of milk. The treatment could not show any effect. Predict the possible interaction responsible for failure of treatment and suggest alternative for it.
3. Describe "Analysis of drugs in body fluids" method.
4. A 35 year old patient was prescribed with Tetracycline & antacids (non-systemic) for the treatment of duodenal ulcers which lead to failure of therapy. Comment on the reason of failure.
5. Explain the attempts to be made pharmacist to improve patient compliance.

Q.2 Solve Any Two

(2X4=8)

1. Write short note on a committee for the therapeutic use of the drugs in Hospital.
2. What is principle of "Justice to study subject"? Explain other 2 ethical principles.
3. Describe role of pharmacist in ADR monitoring & rational drug therapy.

Q.3 Solve Any One

(1X6=6)

1. Explain the guidelines for clinical trials under D & C act, 1945.
2. A drug has been proved to be safe & non-toxic in animal studies. Explain the further journey of drug till getting approval for marketing.

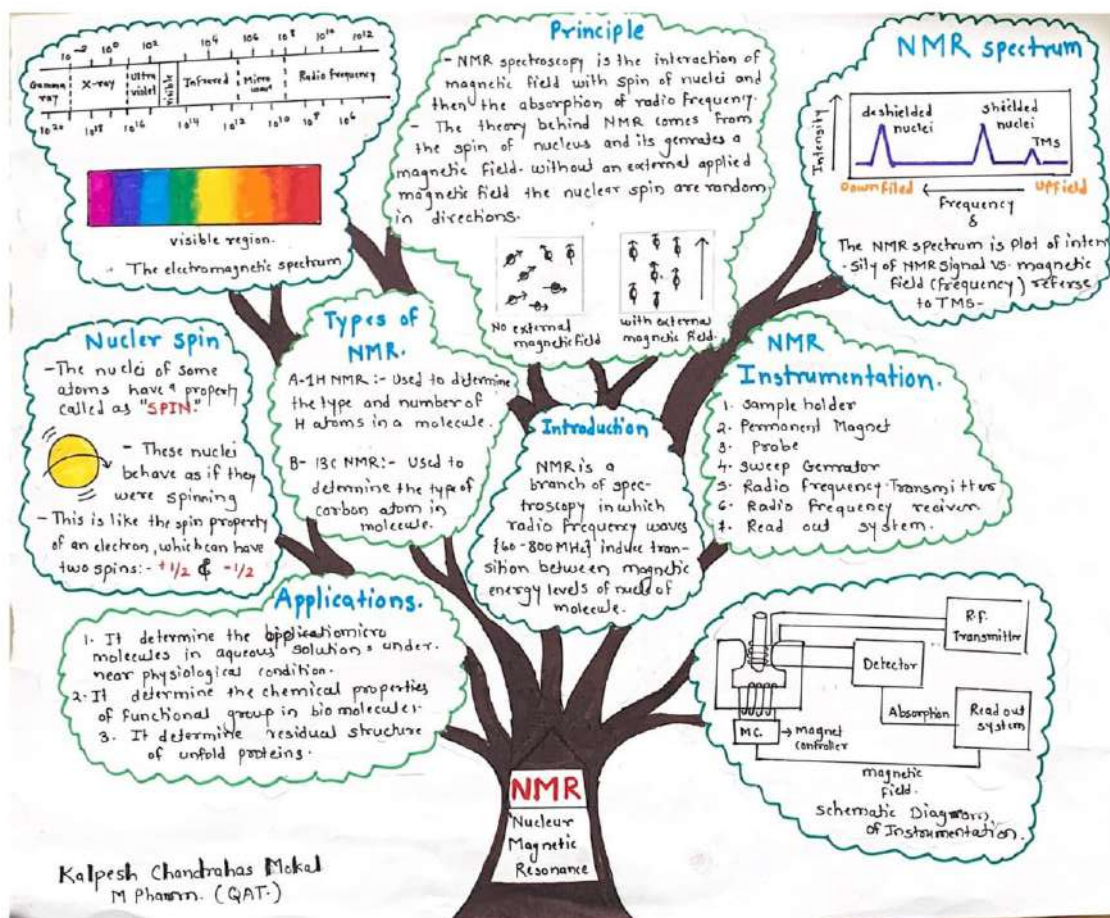


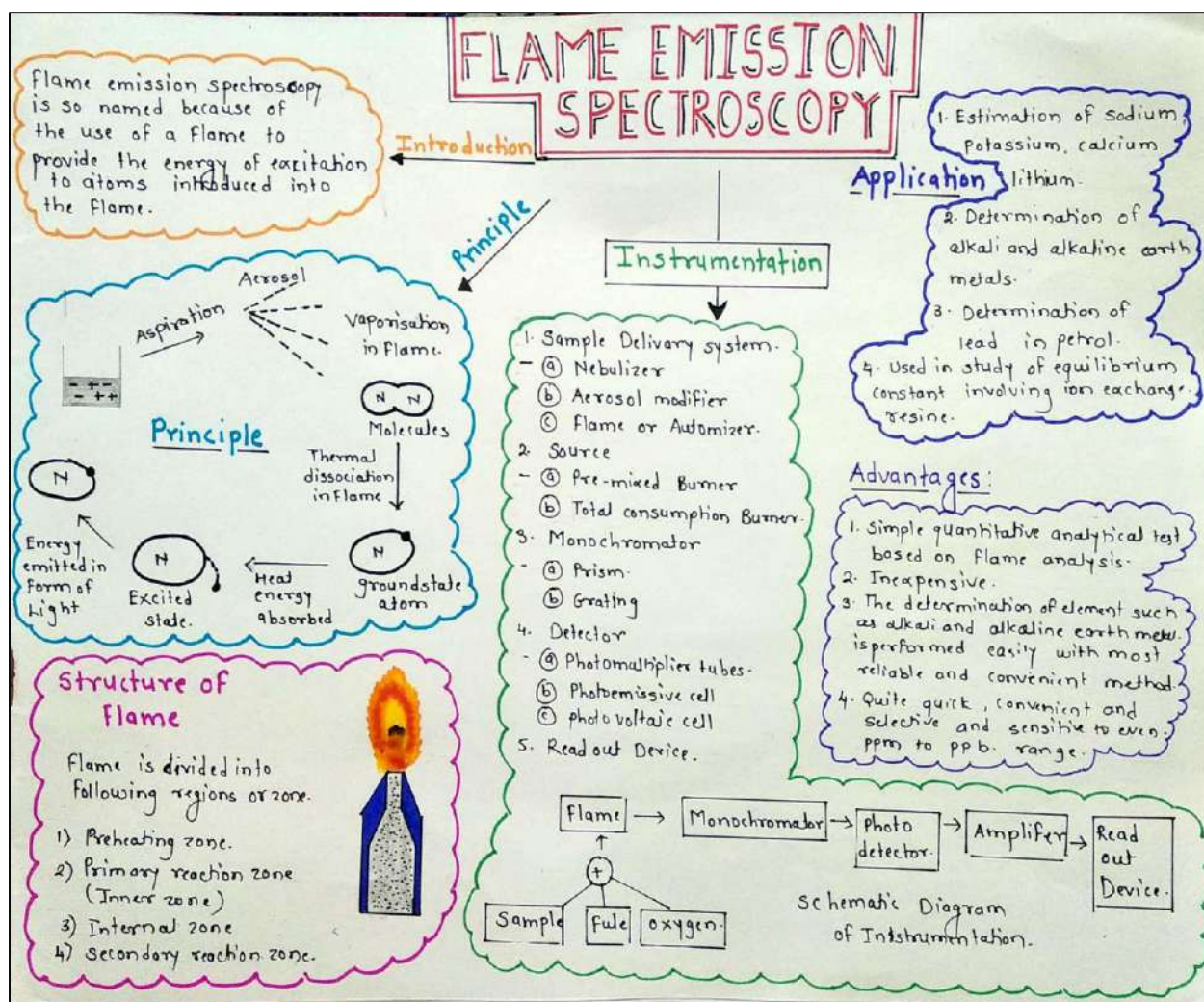
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Self-Directed Learning

Mind Maps







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Learning Humanities



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NSS Activities



Sangli and Kolhapur Flood Relief



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Dindi Seva at Shivajinagar, Pune



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Project Based Learning



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Part B

Protocol form for research proposals to be submitted to the Committee /Institutional Animal Ethics Committee, for new experiments or extension of ongoing experiments using animal's others than non-human primates.

1. **Project /Dissertation/Thesis Title:**
Preclinical pharmacological evaluation of Polyherbal cream in experimentally induced burn wound.
 2. **Principal Investigator /Research scholar /Research guide/Advisor:**
 - a) Name: Manisha Sutar
 - b) Designation: Asst. Prof. (Pharmacognosy)
 - c) Dept/Div/Lab: Pharmacognosy
 - d) Telephone No: 7507199911
 - e) Experience: 10 Years
 3. **List of names of all individuals authorized to conduct procedures under this proposal:**
 - a) Name: Mukul Tambe
 - b) Address: Alard College of Pharmacy, Pune
 - c) Experience: 3 months
 - a. Name: Abhishek Shukla
 - b. Address: Alard College of Pharmacy, Pune
 - c. Experience: Nil
 - b) **Funding source with complete address:**
Respective sponsors.
 - c) **Duration of the project**
 - 1) Number of months: 1 year
 - 2) Date of initiation (proposed): July 2019
 - 3) Date of completion (proposed): July 2020
 6. Detailed study plan may be given
Preclinical pharmacological evaluation of Polyherbal formulation in experimentally induced burn wound.
Objective:
 1. To study acute dermal toxicity of Polyherbal cream on rats.
 2. To study wound healing activity of Polyherbal cream on burn wounds in rats.
- Toxicity Evaluation**
Acute dermal toxicity will be performed as per OECD 402 guideline.
- Test Drug:** Polyherbal cream
- Animals:** Female Wistar Rats 10-12 weeks old for acute dermal toxicity.



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INSTITUTIONAL ETHICS COMMITTEE APPROVAL CERTIFICATION

Name and Designation of the Research Scholar: Vithal Kale
Name and Designation of the Research Guide: Ms. Swapna S. Bazaskar (M.Pharm) Asst. Prof.
Name and Designation of the Research Co-guide (if any):
Title of the project: Evaluation of Antidiabetic activity of stem bark extract of Diospyros fezzanina on STZ induced diabetic rats
Duration of the Research Project- Start date to End date: July 19 to July 20

This is to certify that Dr./ Mr./ Ms. _____, Faculty/student of _____ B. Pharm / M. Pharm who has proposed the Research project has obtained the necessary ethics approvals for the above mentioned project to conduct the following experiments / study for the time period as specified below:

Reference Number / Communication number of Final IEC Approval	Name of the Institution where the work / study will be conducted	Nature of Work / Type of Study	Final Ethics Approval Obtained (IAEC/ IEC) Yes / No / Conditional (specify the condition)	Final Ethics Approval Valid From (dd / mm / yyyy) To (dd / mm / yyyy)
	<u>Alard college of Pharmacy</u>	<u>Animal Activity In vivo</u>	<u>Yes</u>	<u>July 19 to July 20</u>

If there are any pending ethics approvals, the research scholar will undertake that no animal cell experiment/s will be initiated before obtaining the necessary ethics approvals. Human/ Stem Cell studies if required should be done from approved facilities after fulfilling all regulatory requirements and approval of Institutional Ethics Committee.

Sign : Vithal Kale
Name: Vithal Kale
Date: 5-6-2019
Place: ACP, Pune

Sign : Swapna S. Bazaskar
Name: Ms. Swapna S. Bazaskar
Date: 5-6-19
Place: ACP, Pune

Sign : Dr. Sanjay Singh
Name: Dr. Sanjay Singh
Date: 5-6-19
Place: ACP, Pune

Note: Institutional Ethics Committee (IEC) refers to / includes (as the case may be):
a. Institutional Animal Ethics Committee (IAEC).
b. Scientific Committee for approval of research projects to check Plagiarism.

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APPLICATION FOR INSTITUTIONAL ETHICS COMMITTEE APPROVAL

- Name and Designation of the Research Scholar: Vithal Kale
- Name and Designation of the Research Guide: Ms. Swapna S. Bazaskar (M.Pharm)
- Name and Designation of the Research Co-guide (if any):
- Title of the proposed research project: Evaluation of Antidiabetic activity of stem bark extract of Diospyros fezzanina on STZ induced diabetic rats
- Duration of the Research Project- Start date to End date: July 19 to July 20

Documents to be Attached to the Application:

- Synopsis in college format: ☒
- If to be performed in Industry, Memorandum of Understanding (MOU) with Industry: ☐
- Approval of IAEC, if Applicable: ☒
- Any other approval required: ☐

Sign of Research Scholar: Vithal Kale
Name: Vithal Kale
Date: 5-6-2019
Place: ACP, Pune

Sign of Research Guide: Swapna S. Bazaskar
Name: Ms. Swapna S. Bazaskar
Designation: Asst. Prof.
Date: 5-6-19
Place: ACP, Pune

B. Pharm Students in Research Projects



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INSTITUTIONAL ETHICS COMMITTEE APPROVAL CERTIFICATION

Name and Designation of the Research Scholar: Abhishek Shukla
Name and Designation of the Research Guide: Ms. Manisha Sutar (M.Pharm) Asst. Prof.
Name and Designation of the Research Co-guide (if any):
Title of the project: Preliminary Pharmacological Evaluation of Polyherbal cream in experimentally induced burn wound
Duration of the Research Project- Start date to End date: July 2019 to July 2020

This is to certify that Dr/ Mr. Abhishek Shukla, Faculty/student of B.Pharm / M-Pharm who has proposed the Research project has obtained the necessary ethics approvals for the above mentioned project to conduct the following experiments / study for the time period as specified below:

Reference Number / Communication number of Final IEC Approval	Name of the Institution where the work / study will be conducted	Nature of Work / Type of Study	Final Ethics Approval Obtained (IAEC/ IEC) Yes / No / Conditional (specify the condition)	Final Ethics Approval Valid From (dd / mm / yyyy) To (dd / mm / yyyy)
	<u>Alard College of Pharmacy, Pune</u>	<u>Animal study (in vivo)</u>	<u>Yes</u>	<u>05/06/2019 to July 2019 to July</u>

If there are any pending ethics approvals, the research scholar will undertake that no animal cell experiment/s will be initiated before obtaining the necessary ethics approvals. Human/ Stem Cell studies if required should be done from approved facilities after fulfilling all regulatory requirements and approval of institutional Ethics Committee.

Sign : Abhishek Shukla Sign : Ms. Manisha Sutar Sign : Dr. Sonia Singh
Name: Abhishek Shukla Name: Ms. Manisha Sutar Name: Dr. Sonia Singh
Date : 05/06/2019 Date : 05/06/2019 Date : 05/06/2019
Place : ACP, Pune Place : ACP, Pune Place : ACP, Pune

Note: Institutional Ethics Committee (IEC) refers to / Includes (as the case may be):
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- Name and Designation of the Research Guide: Ms. Manisha Sutar Asst. Prof.
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 - 1. Synopsis in college format: ☒
 - 2. If to be performed in Industry, Memorandum of Understanding (MOU) with Industry: ☐
 - 3. Approval of IAEC, if Applicable: ☒
 - 4. Any other approval required: ☐

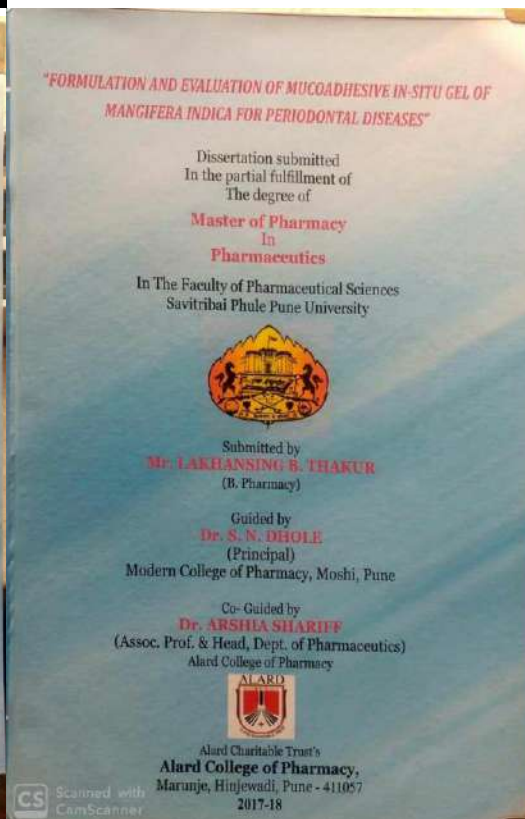
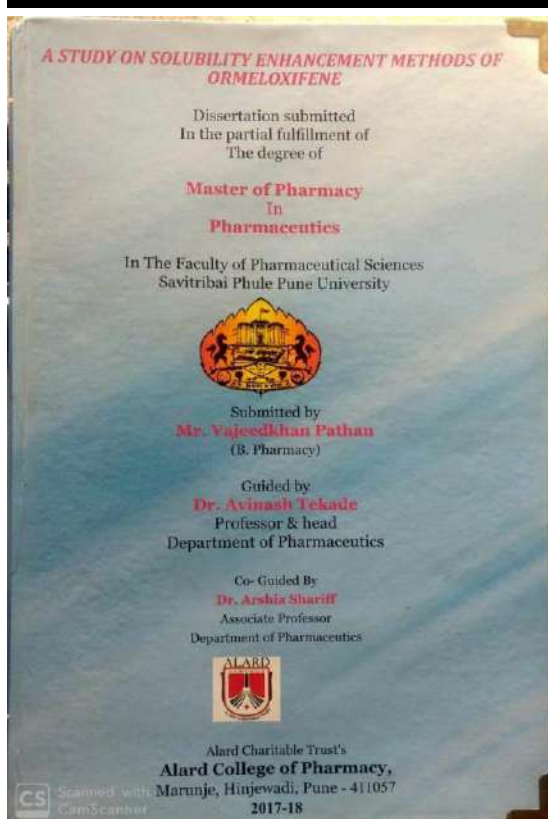
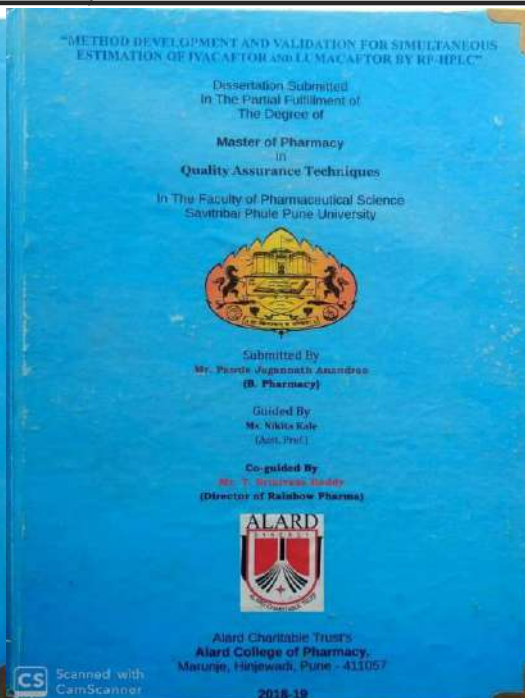
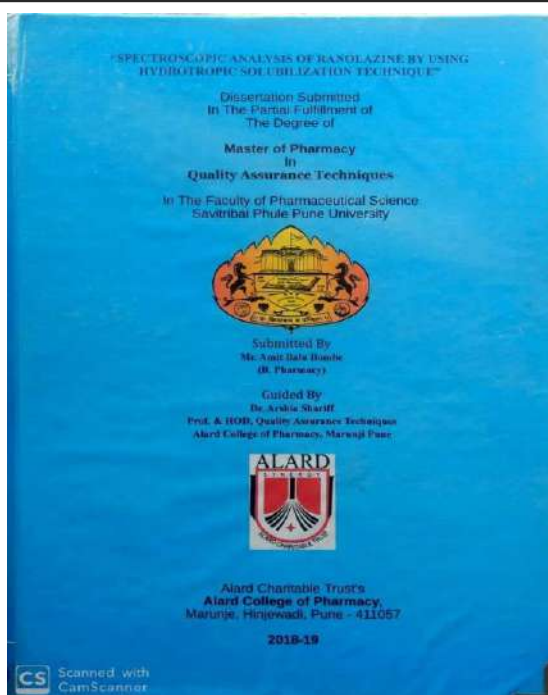
Sign of Research Scholar: Abhishek Shukla
Name: Abhishek Shukla
Date: 05/06/2019
Place: ACP, Pune

Sign of Research Guide: Ms. Manisha Sutar
Name: Ms. Manisha Sutar
Designation: M.Pharm
Date: 05/06/2019
Place: ACP, Pune

B. Pharm Students in Research Projects



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M. Pharm Student Thesis



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Role-Play



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Breast Cancer Awareness



Patient Counselling