**Quality of Students projects**

*(Quality of the project is measured in terms of consideration to factors including, but not limited to, cost, type {application, product, research, review etc.} environment, safety, ethics and standards. Processes related to project identification, allotment, continuous monitoring, evaluation including demonstration of working prototypes, and to enhance the relevance of projects. Mention Implementation details including details of POs addressed through the projects with justification)*

**Practice School Objectives:**

The primary objective of Practice School is to impart learning through experience. It aims to enable students to:

* Get exposure to the practical application of knowledge and skills previously learned through conventional class-room teaching and laboratory experiments.
* Develop the ability to adapt to rapidly changing requirements and challenges of professional work-place in the real world.

**Quality of Students Project:**

The institution has structured skill development programme as the part of the academic curriculum. The objectives of the project are to inculcate critical thinking by the student’s, problem solving ability and to develop research capabilities. It also provides an opportunity to work in a team, which helps them to develop the ability to collaborate and contribute effectively.

The students undertake project under the supervision of the subject teachers on selected topics. Students carryout the experimental work envisaged in the plan of work to achieve the aim/objectives of the identified topic. A short report on the findings of the studies is submitted.

In the course of the project work, the students learn to plan the work and implement it by designing and conducting experiments, analysing and interpretation of the data and delivery of the outcomes within a time frame.

* The topics for project are varied and from different subjects/areas
* Student report to the teacher guide on regular / day-to-day basis
* The guide reviews the progress of the work, assesses the individual and team performance and provides necessary guidance
* On completion of the experimental work, the students submit a report comprising the abstract, introduction, literature review, methodology, results, and discussion, conclusion and references

The students are encouraged to present their project work in scientific conferences/ seminars and for possible publication and patenting. The teachers may also advice for research projects/ schemes for funding from different external agencies including pharmaceutical institution.

**Process of project identification/selection**

* The project topics are identified on the basis of various criteria such as:
* Relevance to the curriculum and need based
* Feasibility and infrastructure
* Industrial applicability
* Environment concerns and safety
* Cost factor
* Usefulness to socially/societal need

**Process of allotment of projects**

* The teachers are listed based on teaching and research experience to guide the students

for the projects.

* On the basis of merit / CGPA the students opt their guides
* The teachers propose/identify the project topic considering the interest of the students
* The proposed topics by the teachers are scrutinized and moderated/ modified by the

HODs/Professors

* The suggested topics are reviewed/finalized and approved by the Principal/HOI for

allotment.

List of some good project works performed during the academic sessions:

**Academic session 2022-2023**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| SL NO | NAME OF THE STUDENT | TITLE OF THE PROJECT | AREAS OF SPECIALIZATION | PROJECT SUPERVISOR |
| 1 | SUPRATIM CHAKRABORTY | Formulation and Evaluation of Promethazine Hydrchloride injection | Pharmaceutics | Prof. (Dr). M.E. Bhanoji Rao |
| 2 | FARHIN BANU | Formulation and Evaluation of Ketoprofen Gel | Pharmaceutics | Prof. (Dr). M.E. Bhanoji Rao |
| 3 | RAHUL BAG | Formulation and Evaluation of Vancomycin Dry Suspension | Pharmaceutics | Prof. (Dr). M.E. Bhanoji Rao |
| 4 | TUPHAN MONDAL | Determine the acid neutralizing capacity of different marketed antacid suspension | Pharmaceutics | Dr. Subhabrota Majumdar |
| 5 | RITASH MANNA | Preparation and diffusion study of tolbutanol sulphate, transdermal patch | Pharmaceutics | Dr. Subhabrota Majumdar |
| 6 | SANDIP MAITY | Design and evaluation of Buccal patches of ketoprofen | Pharmaceutics | Dr. Kiran Kumar |
| 7 | BINAY PATHAK | Evaluation of the hepatoprotective activity of a marketed herbal tea | Pharmacology | Dr. S M Firdous |
| 8 | RONI BISWAS | Nephroprotective activity of a marketed herbal tea | Pharmacology | Dr. S M Firdous |
| 9 | SAHELI BAIRAGI | Extraction and characterization of volatile oils form Clove | Pharmaceutical Chemistry | Dr. Sruti Bagchi Ghosh |
| 10 | SOUMYADIP SEN | Enzyme immobilization with emphasis on Diastase( alfa amylase) | Pharmaceutical Biotechnology | Dr. Manas Chakraborty |

**Academic session 2021-2022**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| SL NO | NAME OF THE STUDENT | TITLE OF THE PROJECT | AREAS OF SPECIALIZATION | PROJECT SUPERVISOR |
| 1 | Moumita Das | Formulation and evaluation of ciprofloxacin eye drops | Pharmaceutics | Prof. (Dr). M.E. Bhanoji Rao |
| 2 | Nandagopal Adak | Formulation and evaluation of ciprofloxccin dry syrup | Pharmaceutics | Prof. (Dr). M.E. Bhanoji Rao |
| 3 | Priti Shaw | Evaluation of acid neutralizing capacity of selected marketed antacids suspensions | Pharmaceutics | Dr. Subhabrota Majumdar |
| 4 | Akankhya Maity | Effect of suspending agents on sedimentaion and rheological properties antacid suspensions | Pharmaceutics | Dr. Subhabrota Majumdar |
| 5 | Rohit Ranjan | ANTIBACTERIAL ACTIVITY OF HONEY ON Staphylococcus aureus&Escherichia coli STRAINS UNDER DIFFERENT CONC. | Pharmaceutical Biotechnology | Dr. Manas Chakraborty |
| 6 | Prasun Chatterjee | ISOLATION & IDENTIFICATION OF COLIFORM & OTHER MICROBES FROM WATER OF DIFFERENT SOURCES. | Pharmaceutical Biotechnology | Dr. Manas Chakraborty |
| 7 | Agnipravo Naskar | Synthesis (single and multi step) and characterization of hydantoin derivatives as an anti convulsant agent | Pharmacology | Dr. S M Firdous |
| 8 | Sourav Ghosh | Evaluation of attenuating activity of Sechium edule on lead induced neurotoxicity in zebrafish | Pharmacology | Dr. S M Firdous |
| 9 | Amrik Santra | Synthesis and characterization of 7 hydroxy 4 methyl coumarin derivatives and its antibacterial activity | Pharmaceutical Chemistry | Dr. Sruti Bagchi Ghosh |
| 10 | Sudipta Debnath | Synthesis and characterization of hexa2,4 dienoic acid derivatives and its antifungal activity. | Pharmaceutical Chemistry | Dr. Sruti Bagchi Ghosh |

**Academic session 2020-2021**

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| --- | --- | --- | --- | --- |
| SL NO | NAME OF THE STUDENT | TITLE OF THE PROJECT | AREAS OF SPECIALIZATION | PROJECT SUPERVISOR |
| 1 | Avishek Pal | Pulmonary drug delivery systems | Pharmaceutics | Dr. M.E. Bhanoji Rao |
| 2 | Duttatreya Ghosal | Design of transdermal drug delivery systems and evaluation | Pharmaceutics | Dr. M.E. Bhanoji Rao |
| 3 | Katha Banerjee | Formulation and Characterization of Mucoadcive Drug Delivery Systems | Pharmaceutics | Dr. Subhabrota Majumdar |
| 4 | Samata Pradhan | Liposomal Drug Delivery Systems | Pharmaceutics | Dr. Subhabrota Majumdar |
| 5 | Krishna Kinkar Ghosh | FT-IR principle, instrumentation, applications | Pharmaceutical Chemistry | Dr. Sruti Bagchi (Ghosh) |
| 6 | Debjyoti Sarkar | Green Chemistry - A novel approach of chemical synthesis | Pharmaceutical Chemistry | Dr. Sruti Bagchi (Ghosh) |
| 7 | Santanu Basak | Immunosuppresants in organ transplantation | Pharmacology | Dr. S M Firdous |
| 8 | Ratna Mandal | Plasma volume expanders | Pharmacology | Dr. S M Firdous |
| 9 | Rohit Guin | Development of recombinant vaccines | Pharmaceutical Biotechnology | Dr. Manas Chakraborty |
| 10 | Soumava Jana | Development & applications of monoclonal antibody for therapeutic purpose | Pharmaceutical Biotechnology | Dr. Manas Chakraborty |