



**Research Project for Post Graduate  
Students under NEP 2020**

**FERGUSSON COLLEGE (AUTONOMOUS)  
PUNE**

## XYZ -610 : Research Project 1

Paper Code	Paper Title	Credits	Total Marks
XYZ -610	Research Project 1	4	100

### Intro duction

The NEP 2020 has emphasized on the inclusion of research and development in Higher Education Institutions. As colleges are integral part of knowledge impartment and creation NEP 2020 has introduced the research component to quite substantial degree at post graduate level. The multidisciplinary, transdisciplinary and translational research culture is expected to be introduced at postgraduate level. Such research project undertaken will obviously enhance the research productivity, collaboration at national and international level in various industries, government as well as community based organizations and agencies.

### Objectives

1. To enable the students to undertake research projects that are relevant and important.
2. To apply pre-learnt concepts to design research problem with help of literature survey.
3. To enable students to do sufficient groundwork in terms of preparing the out line of research plan which includes grants, infrastructural requirements and procurement of resources.
4. To allow students the opportunity to develop a thorough research proposal. UGC guidelines to be followed for writing the research proposal.
5. To encourage research culture which includes exploring collaborative project ideas.
6. To give students the opportunity to present their proposal before funding agencies and if possible, procure funding for the project

### Outcome

- I. Students will do the ground work for research in terms of identifying a relevant research topic (relevance will be decided based on the subject). Identifying the queries and literature review.
- II. Define well formulated specific objectives that help develop the overall research methodology,
- III. By the end of the semester the student is expected compile and communicate the Research Proposal with proper format and if possible have procured funding for the same.

## Evaluation

- I. In **XYZ -610**, the total credits for the research project are 4. Hence internal evaluation will be of 40 marks and external evaluation will be of 60 marks.
- II. Students will be allowed to work individually or in groups (maximum number of students in each group should not exceed 4).
- III. The pattern of evaluation will be as follows:

	<b>Examiner for Internal exam</b>	<b>Examiner for External exam</b>	<b>Nature of evaluation (Internal)</b>	<b>Nature of evaluation (External)</b>
<b>Sem III</b>	Internal guide	External subject expert	Periodic assessment of ideation and proposal development	Student(s) present research proposal

## Parameters for assessment

(Based on overall performance and oral presentation/ viva voce for the dissertation)

<b>SR. NO.</b>	<b>POINTS / Evaluation Parameters</b>
1	Selection Project Idea/Topic and Originality of the research problem identified
2	Significance of the Work and Literature Review
3	Review A statement of Aims and Objectives
4	Plan of Research Project
5	Thoroughness of the proposal in terms of methodology, apparatus/equipment required and timeline (PERT chart).
6	Regularity of work carried
7	Bibliography

## XYZ -660 : Research Project

Paper Code	Paper Title	Credits	Total Marks
XYZ -660	Research Project	6	150

### Introduction

The research project proposal needs to be implemented by following the given timeline Under the NEP, students are expected to get industry ready by the time they pass out of their Masters' degree course. There is also an emphasis on research so that every student is expected to carry out independent research project as a part of their Post Graduate program. The emphasis is on research that is socially applicable, and carried out with scientific rigor. One benchmark of good quality research is publication of the project either in International or National level scientific journals or the presentation of students' research work at International, National or State level conferences. With this broad objective, the following has been proposed for student research projects at Masters level.

### Objectives:

1. To facilitate substantial data collection for the proposed research work
2. To carry out research following ethical aspects of research activities.
3. To compile and communicate the findings/conclusions / results obtained in the science community through various means of communication.
4. To enable students to put together a research paper that can be published or presented at conferences.

### Outcome:

- I. Carry out a substantial research-based project
- II. Capacity development to analyze data and process research findings
- III. Use research findings to advance education theory and practice.
- IV. Focus on quality review of the research papers and may be published in peer reviewed journals or may be presented in conferences / seminars. The research project outcome can be considered for evaluation based on following criteria.
- V. Research Publication in Peer reviewed, Scopus / UGC -CARE indexed journal.
- VI. Poster/ Oral Presentation in seminars/ conferences outside the institute
- VII. Poster/ Oral Presentation in seminars/ conferences arranged by the institution.
- VIII. The dissertation will be done as per the guidelines of UGC

## Evaluation

- I. In **XYZ -660**, the total credits for the research project are 6. Hence internal evaluation will be of 60 marks and external evaluation will be of 90 marks.
- II. Students will be allowed to work individually or in groups (maximum number of students in each group should not exceed 4).
- III. The pattern of evaluation will be as follows:

	<b>Examiner for Internal exam</b>	<b>Examiner for External exam</b>	<b>Nature of evaluation (Internal)</b>	<b>Nature of evaluation (External)</b>
<b>Sem IV</b>	Internal guide	External subject expert	Periodic assessment of data collection, analysis and report writing	Student(s) present research report. 30 marks to be allotted for publication/presentation at conference

## Parameters for assessment

(Based on overall performance and oral presentation/ viva voce for the dissertation)

<b>SR. NO.</b>	<b>POINTS / Parameters</b>
1	Continuous Assessment of day-to-day work
2	Record keeping/ maintenance of journal
3	Ability design work protocol and troubleshooting
4	Proficiency of Presentation skills and use of audio-visual aids
5	Effective data representation (eg. Graphs, chats etc.)
6	Research Potential of the work, result and interpretation
7	Outline of the study and possible future plans
8	The dissertation report preparation (Scientific writing) and its contents
9	Abilities of satisfactory responses to the queries from the audience
10	Publication potential of the work (25% overall weightage to be given)