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Course Developer:
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Hub Co-Ordinator: Samantha Ahern Faculty LT Lead (Bartlett), UCL

OE4BW EDUSCOPE 2022 SEPTEMBER 20 – 22, 2022 VIPAVA, SLOVENIA





COURSE FOCUS

- Scientific Research Methodology course emphasized on a holistic approach to organizing the research activity that ensures selecting the correct research techniques as well as the other elements of the scientific research process such as research ethics and research publication ethics.
- Rejuvenating the research culture in academics that was disrupted due to the COVID-19 pandemic

UNIQUE FEATURES

- About 3 to 4 hours per week of learner's engagement
- Demo videos for course registration on Canvas LMS, navigation through Course and assignment submissions
- Live Interaction session via Zoom platform to facilitate understanding
- Criteria for successful completion:
 - > Submission of all the activities and the assignments
 - ➤ Minimum 60% score in each of the activities and the assignments





PROMOTE LIFELONG LEARNING OPPORTUNITIES FOR ALL





- The online course with a **flexible asynchronous learning mode**
- Open to all the undergraduate and postgraduate students of science faculty who could get foundation knowledge and relevant skills for research-based careers such as research fellows, research communication and publication
- Rejuvenating the research culture in academics that was disrupted due to the COVID-19 pandemic
- Open to all the teachers who could get trained in research methodology which
 could be resourceful for promoting research-based pedagogy that imparts
 critical thinking and offers autonomy to learners for addressing a given scientific
 problem systematically







Course Objectives:

- > To understand the concept of Scientific Research
 - To gain knowledge about the elements of research
 - To be able to design the experiment keeping to the ethical guidelines
 - To apply the scientific writing skills while preparing the manuscript for research publication To implement and evaluate the important aspects of
 - ethics in research publication

Course Learning Outcomes:

- Differentiate between research methods and research
- Relate between the various elements of research
- Write a research proposal having an experimental design that follows the ethical guidelines
- > Prepare a manuscript for a research paper to be published taking into consideration the related ethics



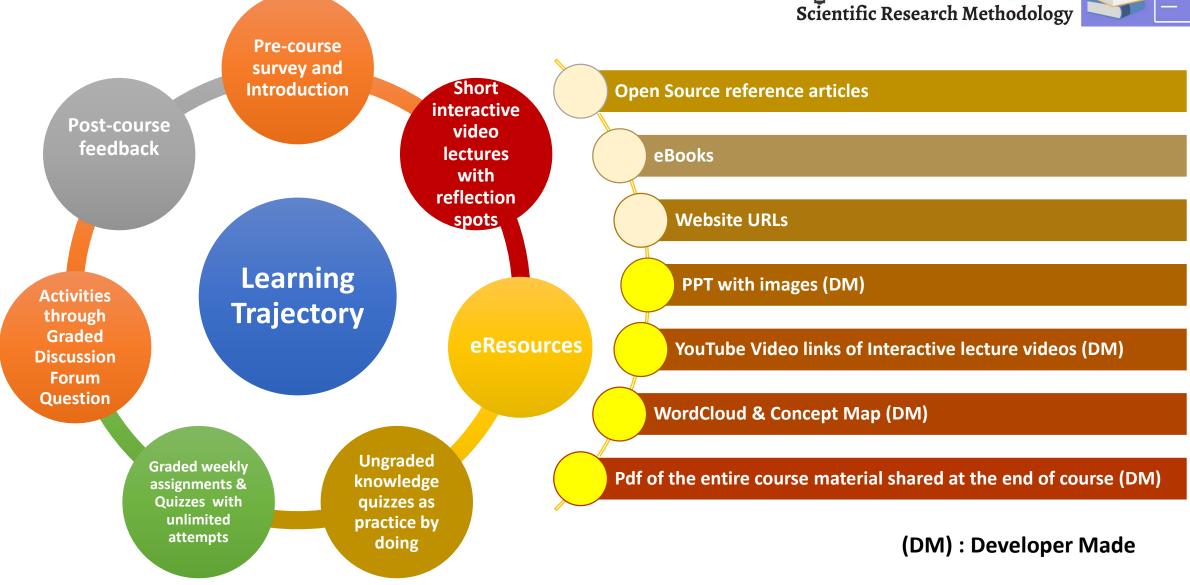


WEEK 1	MODULE 1 M1	INTRODUCTION TO BASICS OF RESEARCH METHODOLOGY
Module Objectives: • To understand the concept of research methodology and types of research • To gain knowledge about the ethical guidelines related to different types of scientific research • To relate the various elements of research methodology Module Outcomes: • To be able to differentiate between research methods and research methodology • To be able to design an experiment	M1.1	Research – A systematic process of enquiry
	M1.2	Types of research
	M1.3	Ethical guidelines in animal research, clinical research, and wildlife research
	M1.4	Elements of Research methodology – Part 1 : Research problem, Hypothesis, Variables
	M1.5	Elements of Research methodology – Part 2 : Experimental Design, Data Documentation and Analysis
having the required elements of research methodology and applying the ethical guidelines	M1.6	Summary

WEEK 2	MODULE 2 M2	IMPORTANT ASPECTS OF SCIENTIFIC WRITING
Module Objectives: • To understand the structure and	M2.1	Structure and components of a research paper
components of a research article to be published	M2.2	Manuscript preparation
 To understand and apply the ethics in publication while preparing a manuscript 	M2.3	Reference Writing Systems
 Module Outcomes: To develop scientific writing skills To apply and evaluate the research publication ethics while preparing and /or reviewing a research article 	M2.4	Ethics in publication: Part 1: Plagiarism & its types
	M2.5	Ethics in publication: Part 2: IPR & Conflict of Interest
	M2.6	Summary



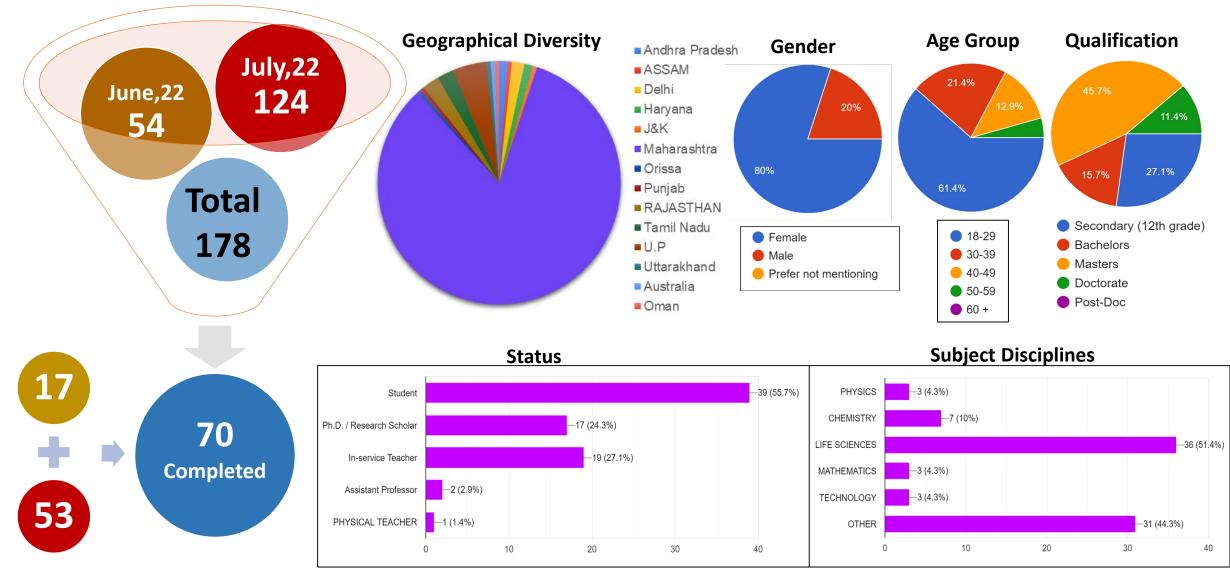




Course Registration Statistics





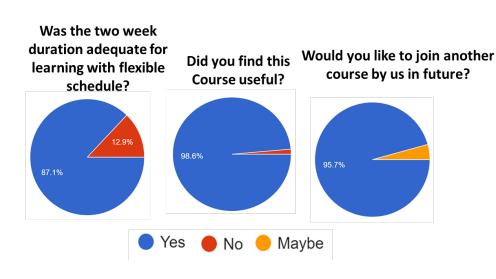


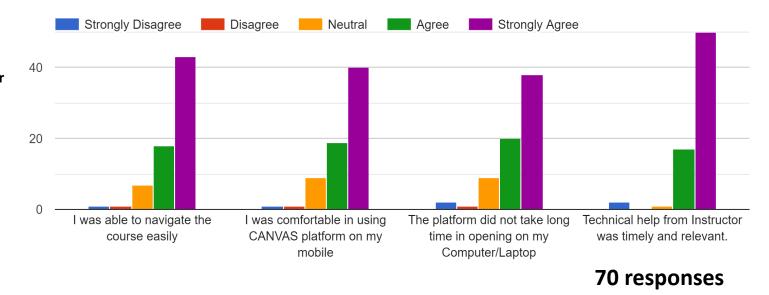




Active Students 174
Discussion Posts 415
Quiz Submissions 573

CANVAS Platform and Tech Support



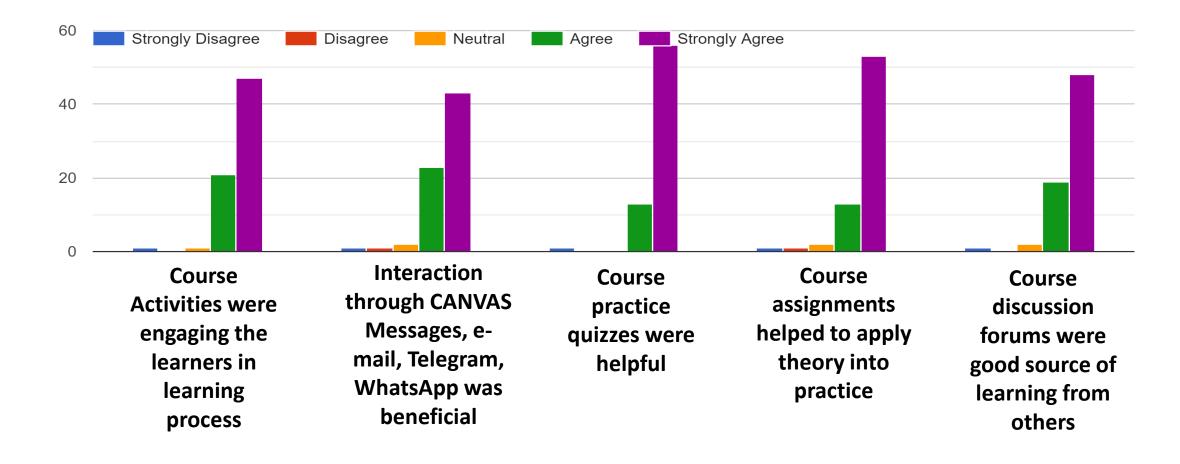








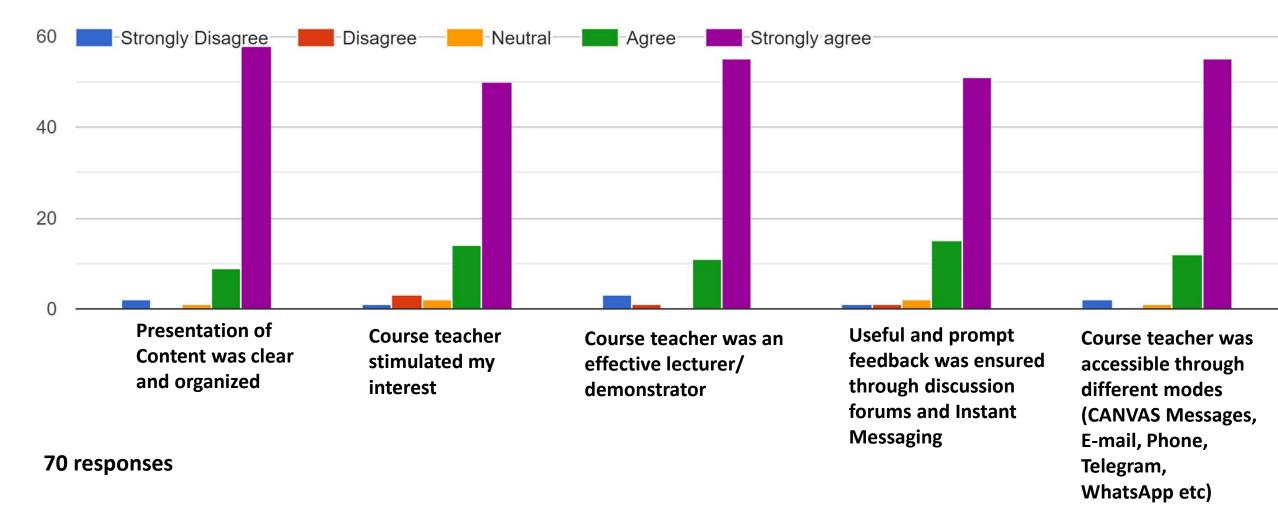
Feedback on Course Activities







Feedback on Skill and Responsiveness of the Course Instructor/Developer

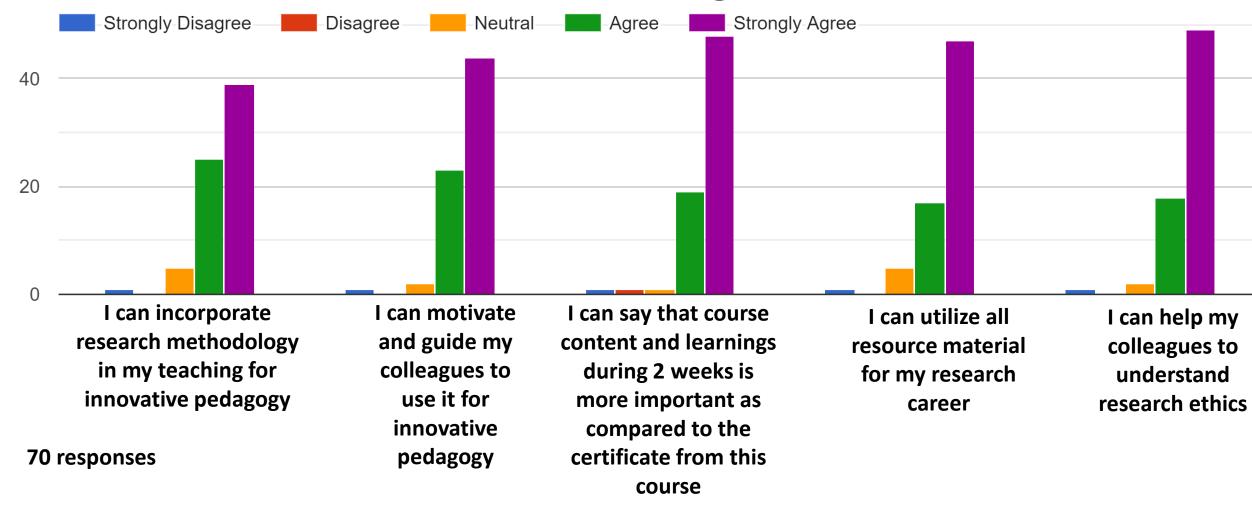


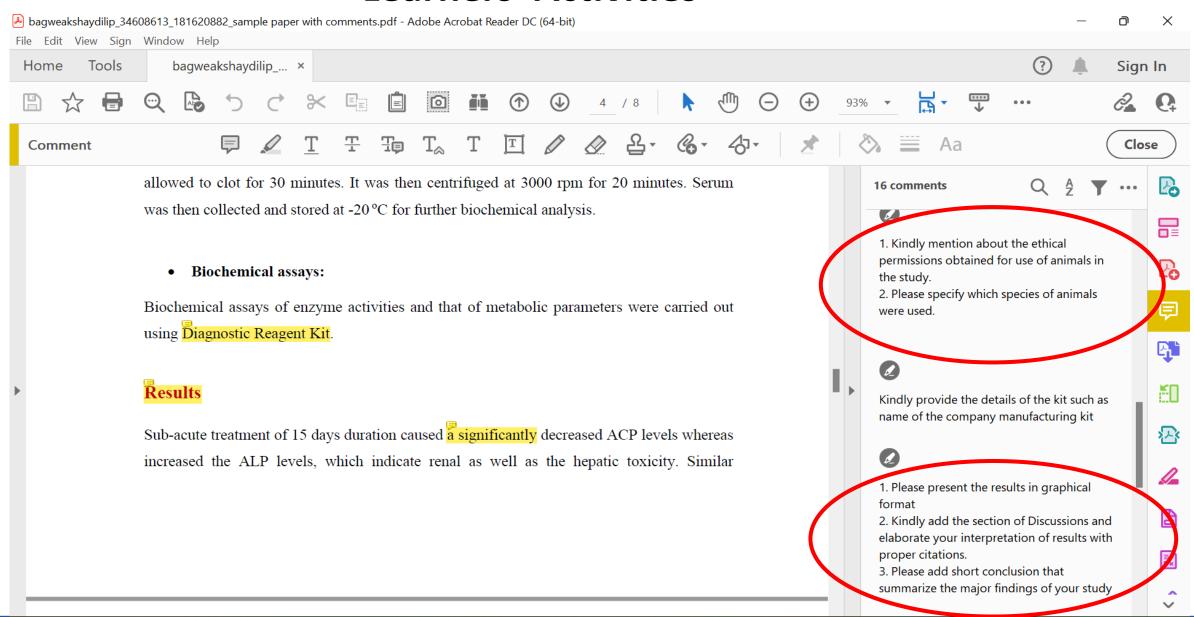


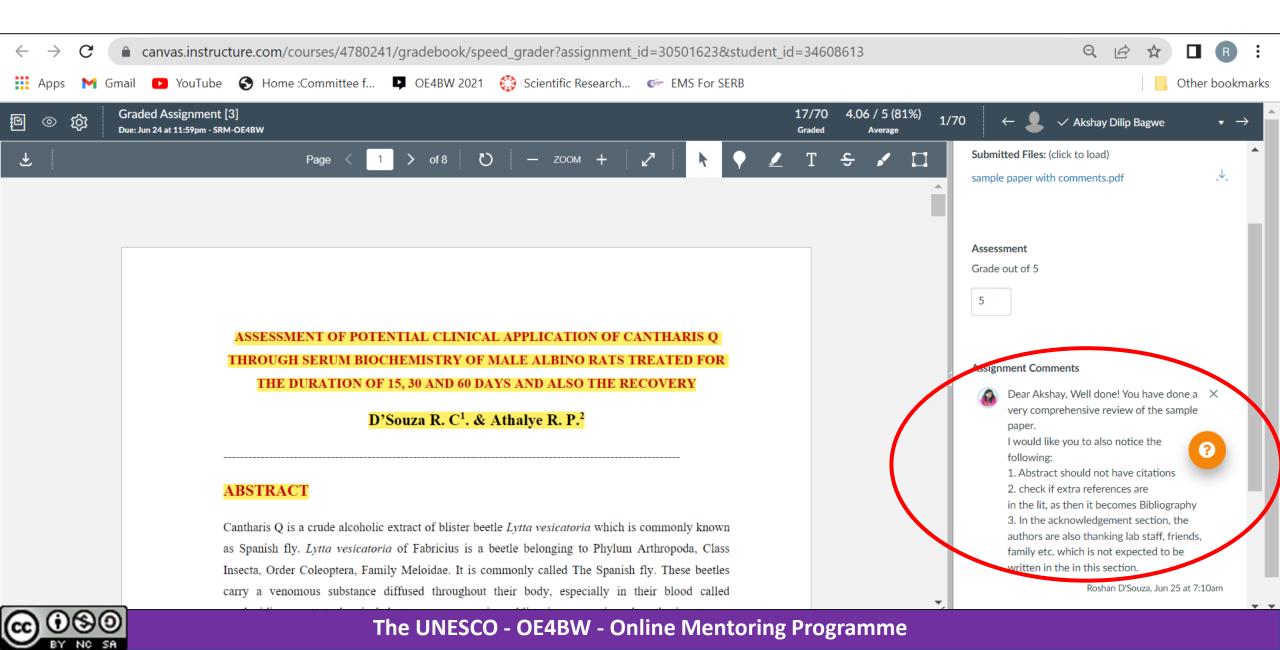


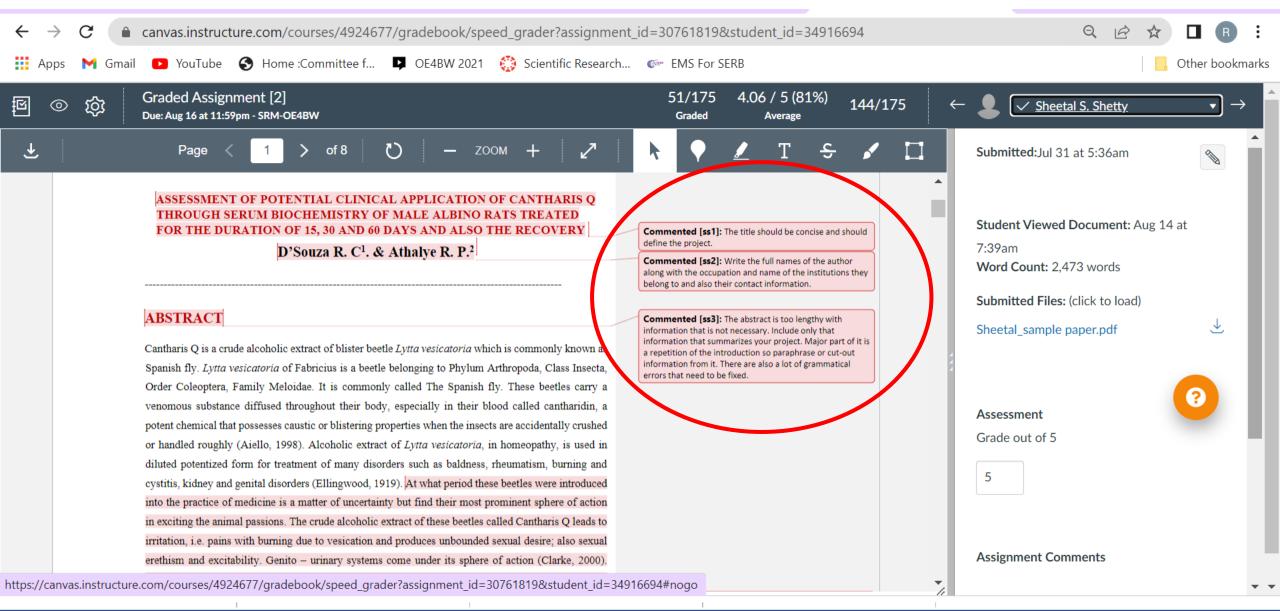


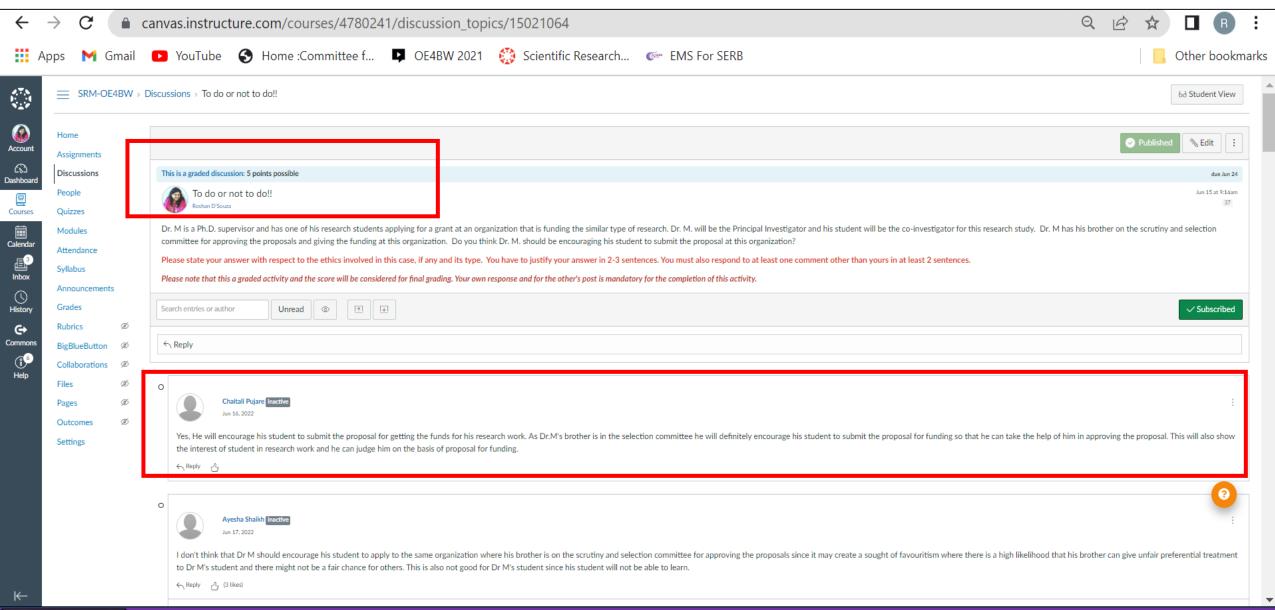
Reflections on the learnings from the course

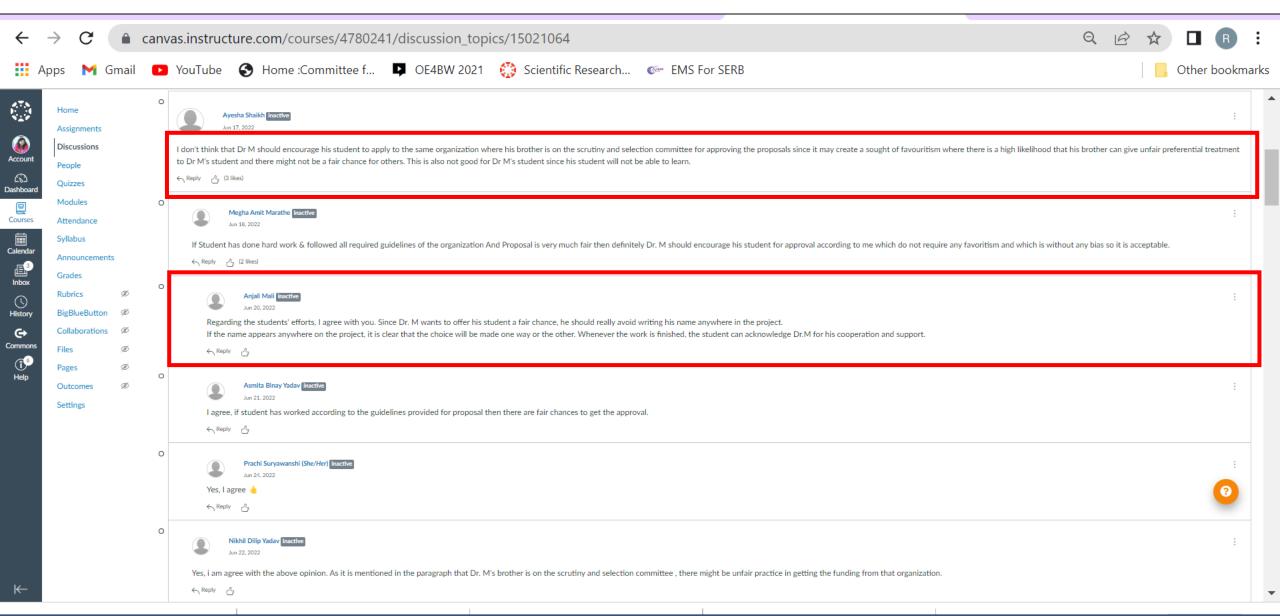












Impact of the Course





At Personal Level

- 1. Rich experience gained for OER creation through guidance of Mentor & Hub-Coordinator
- 2. Interaction with diverse learners
- 3. Opportunity to curate resources as per learners' needs

At Learners' Level

- 1. Knowledge about the importance of systematic research process & its elements
- 2. Insights into research ethics, Plagiarism & Conflict of Interest
- 3. Peer interaction through DF and live interaction session
- 4. Variety of learning resources

Future Prospects

- 1. Launching the course on a larger platform
- 2. Implementing this course as a hybrid mode of learning
- 3. Advanced course based on other aspects of research methodology





Thank you for the opportunity and Your kind attention

Course Developer: Roshan D'Souza Course Mentor: Madhuri Isave

