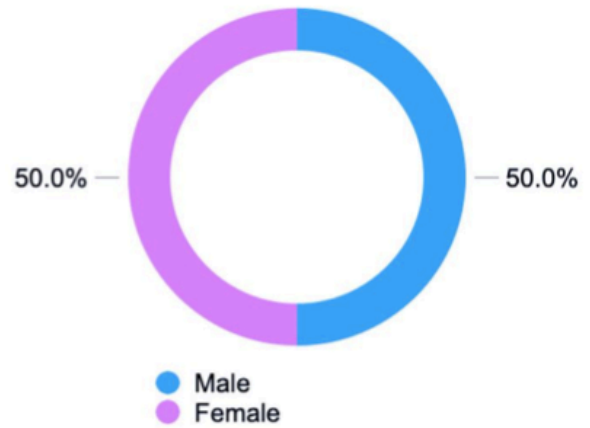


Teacher mentors under CUREs

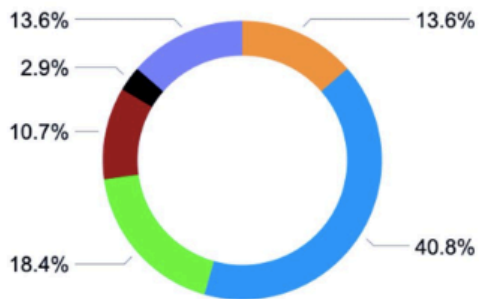


- Biological Sciences
- Physical Sciences
- Social Sciences
- Environmental Sciences
- Humanities
- Commerce



- Male
- Female

Student applicants under CUREs



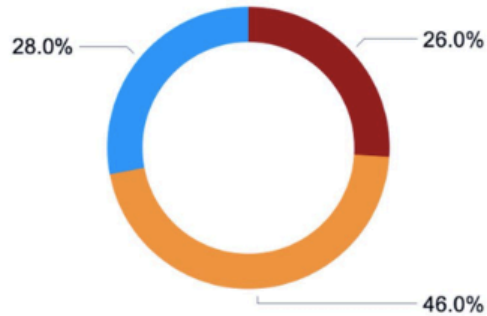
- Commerce
- Biological Sciences
- Physical Sciences
- Humanities
- Environmental Sciences
- Social Sciences



- Science major
- Non-science major



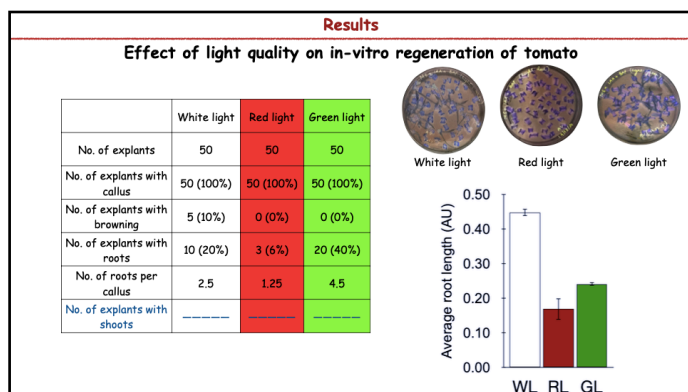
- Male
- Female



- Semester 1
- Semester 4
- Semester 6

CURE Projects 2023-24

CURE Project ID	Mentor	Department	Project title	Start date
CURE/2023-24/01	Dr. Banteiskhem Kharwanlang	Biochemistry	Study on the effect of Curcumin on the enzyme kinetics of Lactate Dehydrogenase	05-Feb-2024
CURE/2023-24/02	Dr. Mahesh Ram	Physics	Exploring d- and f- block elements based Heusler alloys for spintronic applications	01-Feb-2024
CURE/2023-24/03	Dr. Jasmine Therese Sawian	Environmental Science	Determination of water quality in St. Edmund's College, Shillong	16-Feb-2024
CURE/2023-24/04	Navin Chettri	Commerce	Handicrafts and Handlooms industry in Meghalaya.	01-Mar-2024
CURE/2023-24/05	Dr.Wandaia Syngkon	Social Work (PG)	Menstrual Hygiene Practices and Challenges Among Adolescent Girls	11-Feb-2024
CURE/2023-24/06	Dr. Hazel Berret Wahlang	Social Work (PG)	Analyzing knowledge, perceptions, social taboos, and challenges faced by women and girls in Meghalaya regarding menstruation	01-Feb-2024
CURE/2023-24/07	Dr. Eros Kharshiing	Botany	1) Effect of light quality on in-vitro regeneration of tomato 2) Light regulation of tomato transformation efficiency	12-Feb-2024
CURE/2023-24/08	Dr. Ainamlin Dkhar	Social Work (PG)	A study on the knowledge and awareness of school going adolescents regarding Mental Health	04-Feb-2023
CURE/2023-24/09	Dr. Gopesh Paul	Biotechnology	Effect on the growth and nitrogen metabolism of Cyanobacteria under heavy metal stress	15-Feb-2024
CURE/2023-24/10	Theadora War	English	A Confluence of Nature, Culture and Identity in the Select Poems of Soso Tham and William Wordsworth: A Comparative Study	06-Feb-2024
CURE/2023-24/11	Dr. Ibadahun Mary Nonghuloo	Botany	Collection of Ethnobotanical plant species for developing Medicinal Plant Garden with emphasis on education and germplasm preservation	01-Feb-2024
CURE/2023-24/12	Iarisa Anette R. Dorphan	Social Work (UG)	A Study on the Declining Trend of Unmarried Youths in Mawsawa Village (Myllem), Meghalaya	12-Feb-2024
CURE/2023-24/13	Dr. Oliver Nelson Gonsalves	Other	Higher Education Curriculum Development under the National Education Policy 2020: Evaluating Syllabus Design of Undergraduate Skill Enhancement Courses in Meghalaya	05-Feb-2024
CURE/2023-24/14	Bawan Pyntngnenglang Thangkhiw	Electronics	Super schottky heterojunction diode PdCoO ₂ /β-Ga ₂ O ₃ for power application.	15-Feb-2024



St. Edmund's College, Shillong

CURE Programme

An analysis of the perceptions, social taboos and challenges faced by females in relation to menstruation in Meghalaya

Mentor: Dr. Hazel Berret Wahlang, Field Work Coordinator, Department of Social Work-PG.

Mentees:
1. Vicky John Lamare
2. Poonam Ray
3. Doreen Wahlang
4. Daphimaya Shylla
(All MSW students in the 2nd semester)

Purpose of the study
This study aims to comprehensively examine menstruation-related issues by assessing participants' knowledge, identifying primary information sources, evaluating challenges in menstrual hygiene, and exploring social taboos.

Methodology
• **Descriptive Research Design**
• **Samples:** 100 female adolescents and 13 teachers from Ummulung Village were purposively selected
• **Tools of data collection:** Semi-structured questionnaire and FGD Guidelines
• **Analysis:** Data were analyzed using SPSS and Thematic Analysis

Progress of the Research
Paper Presentation: 42nd Annual National Conference: Indian Society of Profession Social Work conducted from 28th – 30th June 2024

Effect of Curcumin on the Kinetics of Lactate Dehydrogenase (LDH)
CURE Project

Project Students :- 1. Snigdha Bhattacharjya (Fourth Semester) 2. Priyanshu Kashyap (Fourth Semester) Project Mentor :- Dr. Banteiskhem Kharwanlang

Objectives:

- To study the Mechanism of inhibition of LDH by curcumin using Kinetic Studies (Lineweaver-Burk Plot)

Progression upto 6th July, 2024

- Completed the standardization of LDH assay
- In this *in-vitro* study, LDH activity was inhibited at 3mM, 5mM, 10 mM, 15 mM, 30 mM and 60 mM of curcumin

Future Work

- In-vitro Assay will be conducted for the Mechanism of Inhibition of LDH by curcumin (micromolar) using Kinetic Studies (Lineweaver-Burk Plot)
- Docking Studies (February 2025 onwards)

Work completed under Dr. M. Ram Linthoi

- Completed 75% of work.
- Attended "14th User awareness Workshop on Fabrication & Characterization Facility for Nanotechnology" held at IIT Delhi, 29-30 April 2024 (online).
- Presented a Poster of project proposal in INUP-i2i offline Familiarization Workshop on Nanofabrication and Characterization, held at IIT Kharagpur on June 24-26, 2024

Sataveek Completed 50% of work. **Aurora** Completed 75% of work.

Two project proposal submitted; one to IIT Guwahati and other to IIT Kharagpur, to synthesis materials and fabricate the device

MENTAL HEALTH KNOWLEDGE AND AWARENESS AMONG SCHOOL GOING ADOLESCENTS
Ainamlin Dkhar, Javiya Ashraf, Angelista Syiemlieh, Monmayuri Hatbaruah

Background: Mental Health of children and adolescents is an essential component of their overall health and developmental process. In most cases these problems of children are neither identified properly nor addressed. Therefore, mental health studies are required to identify the knowledge and awareness and to establish targeted initiatives to address the issues.


Methodology: The study is a descriptive design and make use of purposive sampling techniques to identify respondents from four schools in Sohra, Meghalaya. Questionnaires with regards to knowledge, awareness and beliefs was used to collect the information. Permission and informed consent obtained from the participants prior to the data collection and SPSS was used to analysed the data.

Results: More than half of the participants lacked mental health knowledge. Regarding mental health awareness it was found that more than half of the respondents were not aware of any mental health conditions. Furthermore, we found that many of the respondents believed in the impact of black magic or evil spiritual effects and had faith in the effect of bad luck on psychological problems.

Conclusion: The increased complexity of our social and economic development has made the life fast, complex and competitive. This has given rise in the emotional and behavioural problems. The mental and behavioural problems of children studying in schools have become a serious concern for educators, parents, mental health professionals and society as well.

Course-based Undergraduate Research Experience (CURE) Project

Collection of Ethnobotanical plant species for developing Medicinal Plant Garden with emphasis on education and germplasm preservation



Mentor: Dr. I. M. Nonghuloo Students: Nicheera Saagma, Fatmora Saogoh, Ch. Sonvarghina mate, Ng. Anisha Singha Angelina Laiprobam Department of Botany, St. Edmunds College