

**CALL FOR PROJECT PROPOSALS FOR UG STUDENTS  
UNDER UG RESEARCH COUNCIL FOR THE FOLLOWING  
RESEARCH PROPOSALS**

- (i) Project on Smart campus and Drone based application: Electrical Engineering Deptt.
- (ii) Optimal Irrigation for Plant growth: Electrical Engineering Deptt.
- (iii) Smart vehicle management and automation of medical vehicle: EI Department
- (iv) Diagnosis of Crop disease and its solution: EI+ECE Department
- (v) Thermal management of Lithium ion battery: ME Department
- (vi) Design and development of an underwater vehicle manipulator system (UVMS) for surveillance and manipulation purpose : ME Department
- (vii) Prediction of renewable energy sources for LED lighting system using solar cell: ECE Department
- (viii) Design of Stepper Motor controller and driver: EE+ECE Department
- (ix) NLP for Northeast ( Boro, Missing, Cachari language):CSE Department
- (x) Medical Image processing: CSE+ECE Department
- (xi) Integrated surface water and Groundwater Management using simulation-optimization model : CE + CSE
- (xii) Smart Early Warning System for Landslide based on IoT : CE + EE
- (xiii) Tea processing at controlled temperature by electric heating: EE+ECE Department

**FORMAT FOR APPLYING RESEARCH PROPOSAL UNDER UG RESEARCH COUNCIL**

**Name of the students with one project leader:**

**Registration no. of the students:**

**Semester, email ID , Phone no.:**

**CPI of students upto last sem:**

**Title of the project:**

- 1. Broad area:**
- 2. Summary of the proposal ( within 500 words ):**
- 3. Origin of the Proposal:**
- 4. Review of status of Research and Development in the subject:**
- 5. Importance of the proposed project in the context of current status:**
- 6. Work plan:**
  - 6.a Methodology detailing stepwise activities and sub-activities**
  - 6.b Environmental impact assessment and risk analysis ( if needed):**
- 7. Details of the budget ( in tabular form ) with justification:**
- 8. Suggested Plan of action for utilization of research outcome expected from the project:**

**Declaration from the applicant (Students and Mentor):** I declare that this research proposal is my own idea and it has not been submitted anywhere for consideration.

**Name and signature of the project mentor:**

## **General information for applying the project:**

**1. UG students can apply for these given list of projects. But a final student can apply only with 2<sup>nd</sup> year or 3<sup>rd</sup> year students.**

**2. For interdisciplinary projects, students may choose more than one mentor.**

**3. The duration of project is one year.**

**4. UG students can submit the filled up form to the respective UG Research council members of respective Department. For interdisciplinary proposal the form has to be submitted to each department member.**

**5. After submission forms the UG Research council members check and shortlist the projects.**

**6. The budget limit for each proposal is 25000/.**

**7. Submit the proposal on/before 1<sup>st</sup> NOV'2019.**

**8. The name of UG Research council members are given below:**

- |      |                                     |                        |
|------|-------------------------------------|------------------------|
| I.   | Dr. Brinda Bhowmick,<br>Coordinator | Assoc. Professor (ECE) |
| II.  | Dr. Arup Goswami,<br>Member         | Assoc. Professor (EE)  |
| III. | Dr. Koushik Guha,<br>Member         | Asstt. Professor (ECE) |
| IV.  | Dr. Sukumar Pati,<br>Member         | Asstt. Professor (ME)  |
| V.   | Dr. Ranjay Hazra,<br>Member         | Asstt. Professor (E&I) |
| VI.  | Dr. Malaya Dutta Borah,<br>Member   | Asstt. Professor (CSE) |
| VII. | Dr. Susmita Ghosh<br>Member         | Asstt. Professor (CE)  |