

**KARNATAKA STATE COUNCIL FOR SCIENCE AND TECHNOLOGY**

*Indian Institute of Science campus, Bengaluru*

**FORMAT FOR STUDENT PROJECT PROPOSAL FOR THE**

**43rd SERIES OF STUDENT PROJECT PROGRAMME**

***(Hand written proposals will not be accepted, please fill all the details in this MS word file as per the following format. Kindly take a photocopy of completely filled project proposal and Demand Draft for filling up the Google Forms.)***

<https://forms.gle/cpc8fph21B8Tm7bk8>

***Stream A***

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|  | **Name of the College :** Atria Institute of Technology | |
|  | **Project Title :** IOT based anti poaching alarm system using wireless network | |
|  | **Branch :** Computer Science and Engineering | |
|  | **Theme (as per KSCST poster) :**Forest | |
|  | **Name(s) of project guide(s) :**   1. **Name: Prof.** Chandini Unnikrishnan   **Email id :**chandini.u@atria.edu  **Contact No. :**9535724081 | |
|  | **Name of Team Members (Strictly not more than four students in a batch):** (Please paste the latest passport size photograph adjacent to your respective names)   |  |  | | --- | --- | | **Name:** Srishti Pandit  **USN No.:** 1AT16CS103  **Email id:** panditsrishti098@gmail.com  **Mobile No:** 8861179638 |  |  |  |  | | --- | --- | | **Name:** Rakshitha S  **USN No.:** 1AT16CS081  **Email id:** rakshitha2708@gmail.com  **Mobile No.:** 9606775047 |  |   **Name:** Tejas R Joshi  **USN No.:** 1AT16CS113  **Email id:** tejasjoshi98611@gmail.com  **Mobile No.** 9620782985 | |
|  | **Team Leader of the Project :**  **Name:** Srishti Pandit  **USN No. :** 1AT16CS103  **Email id :** panditsrishti098@gmail.com  **Mobile No. :** 8861179638 | |
|  | **Processing Fee Details (Demand Draft should be drawn from Canara Bank / State Bank of India only):  (processing fee of Rs. 1000/- drawn in favour of Secretary, KSCST, Bangalore – 12)**  **Demand Draft No. :**  **Date :**  **Bank name :**  **Note :**Please write Team leader name, Project Title and Name of the College on the backside of the DD. | |
|  | **Date of commencement of the Project :**1/02/2020 | |
|  | **Probable date of completion of the project :** 23/05/2020 | |
|  | **Scope / Objectives of the project :**  The main objective of the project is to prevent smuggling activities which are done in the forests by deploying three sensors tilt sensors, sound sensors and temperature sensors. | |
|  | **Methodology :**  Poaching of treasured trees which are mostly been hugely designed due to man’s self-regarding wishes over the top like Sandalwood, Teakwood, Pinewood and Rosewood. Trees protection have been much creatively carried out by different systems of government and in specific government of India to allay this problem. However, there are many of the actions have remained largely ineffective. There is hopeful solution for the prevention of forest tress is – “the implementation of Wireless Sensor Networks (WSNs)” which is a robust, effective and practicable technology for monitoring and controlling. WSN is a most developing technology, widely used in many applications which can be involved monitoring and controlling. In forest, It is already deployed for fire detection, rearing/poaching of wild animals. It facilitates preservation and easy conduction and they exclude the use of lavish things like cables and decrease the cost. In this extract, the presented design for a portable wireless sensor node which is the part of a Wireless Sensor Networks. It will be attached on trunk of each tree, accomplished to identifying theft and also repeatedly start and send signals to Central Base Station. The system method is for a low power proposal, so it can be a greater life. The system is a low power design, and more successfully work with rechargeable batteries which can charge active by natural solar system. A solar panel taken in the system to use for recharging node’s batteries. It can avoid regular manual change batteries. There is no requirement for watchman to travel entire forest.  **Note:** In case of fabrication work in the project, an engineering drawing with dimensions / detailed design should be attached to the proposal. | |
|  | **Expected Outcome of the project :**  Using this system, we can easily track the poaching activity which reduces deforestation and helps in maintaining the ecological balance and also protects the wildlife. | |
|  | **Is the project proposed relevant to the Industry or Institution? :**  **Yes / No :** Yes. The proposed project is relevant to Atria institute of technology.  **Contact details:**9164612050  **If Yes, Please provide details of the Industry / institution and contact details :**  (**Note:** Preference will be given to those projects relevant to the industry / institution. Hence be specific in giving detailed information). Is the industry extending support - technology / funds / use the final product, please specify. | |
|  | **Can the product or process developed in the project be taken up for filing a Patent?**  **Yes / No :**  No.  **Prior Art search done?**  **Yes/No :**  **Note:** If Yes, you may contact Patent Information Centre of KSCST  for more details  Email : patent@kscst.iisc.ernet.in | |
|  | **Budget details (break-up details should be given) :**   |  |  | | --- | --- | | **Budget** | **Amount** | | a) Materials / Consumables | 7000.00 | | b) Labor | 200.00 | | c) Travel | 1000.00 | | d) Report | 1000.00 | | e) Miscellaneous | 1000.00 | | **Total** | 10200.00 | | |
|  | **Any other technical details (Please specify) :** | |
|  | **SPP Coordinator (Identified by the college) :**  **Note:** To be identified by the principal of the institution. The project proposals must be submitted to KSCST through SPP coordinator designated by the Principal.  **Name : Dr. Shanti Mahesh .**  **Email id :**  **Contact No. :** | |
| **(Name &Signature of Project Guide with Seal)** | | **(Name &Signature of HOD with Seal)** |
| **Email id:** | | **Email id:** |
| **Contact No.:** | | **Contact No.:** |

**DECLARATION**

**(From Project Students)**

We, the project team hereby declare that the details enclosed in the project proposal are true and correct to the best of our knowledge and belief and we undertake to inform KSCST of any changes therein in the project tile, students name will be intimated immediately. In case any of the above information is found to be false or untrue or misleading, we are aware that we may be held liable for it. We hereby authorize sharing of the project information with this project proposal with the Karnataka State Council for Science and Technology, Bangalore.

We are aware that the project team has to exhibit / demonstrate the project in the nodal centre and interact regarding project with the experts and to exhibit the project in the State Level Seminar and Exhibition (if selected). If the student team fails to attend the evaluation in nodal centre or fails to attend the State Level Seminar and Exhibition, the supported project amount will be returned back to KSCST.

We also hereby, enclose the endorsement form to KSCST, Bengaluru.

**Name of the students Signature with date**

1. Srishti Pandit
2. Rakshitha S
3. Tejas R Joshi

**ENDORSEMENT**

**(From College, endorsement to be taken in the institution / Department Letter head)**

This is to certify that 1) Mr. / Ms.……...................., 2) Mr. / Ms. ……………................  
3) Mr. / Ms. …………………............, 4) Mr. / Ms. ……………………................, are bonafide student(s) of Department of ......................................................., in the degree program of our institution. If the project proposal submitted by these students under the 43rd series of Student Project Programme is selected by KSCST, we will provide the requisite laboratory / Computer / infrastructure support in our college / Institution. Further we also take necessary steps to see that the project team will exhibit / demonstrate their project in the nodal centre and in the State Level Seminar and Exhibition (if selected). If the student team fails to send the completed project report or fails to attend the evaluation in nodal centre or fails to attend the State Level Seminar and Exhibition, the supported project amount will be returned back to KSCST.

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| --- | --- | --- |
| **(Name & Signature of  Project Guide with Seal)** | **(Signature of HOD with Seal)** | **(Signature of the Principal with Seal)** |
| **Email id:** | **Email id:** | **Email id:** |
| **Contact No.:** | **Contact No.:** | **Contact No.:** |