

# ASSAM SCIENCE AND TECHNOLOGY UNIVERSITY

(A State University of Government of Assam constituted by "Assam Science and Technology University Act, 2009")

Tetelia Road, Jalukbari, Guwahati-781013, Assam

Date: 30-05-2019

## GUIDELINES FOR STUDENT INTERNSHIP PROGRAMME

(For B.Tech Programme from Admission batch 2018-19 onwards)

SAI is an inquiry-based learning approach of **Student Internship Programme** designed for the students of B.Tech programme under the Assam Science and Technology University, Guwahati. SAI encourages students to take up scientific research on specific issues of their choice under three broad themes – **SOCIETY (S), ACADEMICS (A), and INDUSTRY(I)**. The programme will open young minds to examine and understand a situation critically, identifying problems and prioritization, use of knowledge into practice, be socially responsive, innovative, understanding ethical value, promote team work, leadership skills and provide a sustainable solution. The terms of SAI including the projects is given below:

Sl. No.	Schedule	Duration	Activities (SAI Initiative)	Credit C	Evaluation*	Marks	
						CE	ESE
1	Summer vacation after 2 <sup>nd</sup> Semester	2-3 weeks	S-Society Internship	1.0	In 3 <sup>rd</sup> Semester through Report, Presentation/ Certificate	-	100
2	Summer vacation after 4 <sup>th</sup> Semester	2-3 weeks	A-Academia Internship	1.0	In 5 <sup>th</sup> Semester through Report, Presentation/ Certificate	-	100
3	Summer vacation after 6 <sup>th</sup> Semester	4-6 weeks	I-Industry Internship	2.0	In 7 <sup>th</sup> Semester through Report, Presentation/ Certificate	-	200
4	Semester VII	During the semester	Project-1	10-14	In 7 <sup>th</sup> Semester	50	100
5	Semester VIII	During the semester	Project-2		In 8 <sup>th</sup> semester	100	200

SAI including projects will allow students internship during **B.Tech** programme for 600 to 900 contact hours.

### I. Society (S) Internship (1.0 Credit):

In this internship programme, preferably a group of 3 to 5 students would visit either a village or nearby locality or NGO involved in community development to study current problems related with livelihood, cleanliness, security, lifestyle, ecosystem or any other problem which has a significant impact on the lives of various people living in that locality. The scope of the problem may be wide enough to cover either a district or a state or country. The group has to produce a detailed report followed by a presentation after joining the institute/college in the 3<sup>rd</sup> semester. The following items need to be clearly specified in the report and the presentation.

#### 1. Identification of problem

2. Why is the problem relevant for the society?
3. Already existing solutions, if any. Are these solutions applicable in the present scenario?
4. Proposed Solution
5. Why the proposed solution is efficient in nature?
6. Has the proposed solution any impact on environment (positive or negative)?
7. Novelty and Uniqueness
8. Objective of the proposed solution
9. Goals and Milestones
10. Planning and Execution Strategy
11. Impact analysis of the proposed solution to society
12. Proposed Roadmap: It should include how the proposed solution gets implemented and how the society plays an active role in this?
13. An analysis indicating effective “expiry date of the proposed solution” i.e. after a stipulated time, either the time would come for the implementation of the new solution or old solution with “some amendments”.
14. Forecasting of the social changes anticipating the proposed solution in place
15. Conclusion/Summary
16. Future work, if any

While identifying problems the students may refer AICTE long term goals of ACTIVITY POINT PROGRAMME:

**Long term goals of AICTE activity point programme**

1. Prepare and implement plan to create local job opportunities.
2. Prepare and implement plan to improve education quality in village.
3. Prepare an actionable DPR for Doubling the village Income.
4. Developing Sustainable Water Management system.
5. Prepare and Improve a plan to improve health parameters of villagers.
6. Developing and implementing of Low Cost Sanitation facilities.
7. Prepare and implement plan to promote Local Tourism through Innovative Approaches.
8. Implement/Develop Technology solutions which will improve quality of life.
9. Prepare and implement solution for energy conservation.
10. Prepare and implement plan to Skill village youth and provide employment.
11. Develop localized techniques for Reduction in construction Cost
12. Prepare and implement plan of sustainable growth of village.
13. Setting of Information imparting club for women leading to contribution in social and economic issues
14. Developing and managing efficient garbage disposable system
15. Contribution to any national level initiative of Government of India. (For eg. Digital India / Skill India / Swachh Bharat Internship etc.

**II. Academic (A) Internship: (1.0 Credit)**

In this internship programme, a group of 3 to 5 students (preferably the same group of Society Internship) would implement the proposed solution identified during the Society Internship in this phase either in their own institute under the supervision of a faculty member or in any other academic institute

in the country with a faculty member interested to work on the proposed solution. The proposed duration of this internship would be of 2-3 weeks. The group has to produce a detailed report followed by a presentation after joining the institute/college in the 5<sup>th</sup> semester. The following items need to be clearly specified in the report and the presentation.

1. A General Description of the broad area
2. What problem you want to select in your research (problem definition)
3. Why do you want to solve this problem
4. What others have proposed to solve this problem (Prior Art)
5. What do you propose to solve the problem (proposed methodology)
6. On what basis you propose the solution
7. Why is it unique or novel to adopt as compared to other methods
8. What you have done to solve the problem (initial preparation or setup preparation)
9. What is the output of your proposed method (result you have got)
10. In which manner it is better as compared to other methods (comparison of parameters) and connect it to the point no. 7 to prove your claim
11. What do you propose as the next steps
12. What is the timeline of the proposed next steps
13. What would be the expected outcome of the proposed next steps
14. What would be your strategy to achieve the targets set in the next steps
15. Conclusion, Papers, References, Acknowledgement etc.


### **III. Industry (I) Internship (2.0 Credit):**

A student may choose an industry or an organization (Industry/Govt/MSME/Innovation/Entrepreneurship/NGO etc.) as per his/her research interest to do the internship. The proposed duration of this internship would be of 4-6 weeks. The student has to produce a detailed report followed by a presentation after joining the institute/college in the 7<sup>th</sup> semester. Student may refer AICTE's Assistance/Felicitation for Internship Programme.

### **MONITORING AND EVALUATION**

The internship programme shall be organized under the mentorship of TPO/faculty and the guidance of the Principal of the College/Head of the Department. Appropriate monitoring mechanism should be adopted based on the nature of the internship for effective implementation. Writing of diary by the student to document each day activities shall be an integral part of reporting. Students also to be asked to document their participation, attending and organizing workshops, seminar etc. during their B. Tech programme.

Date: 30-05-2019

  
Academic Registrar