



## **Vishwakarma Student Research Internship Scheme (VSRIS) 2020**

### **Inviting Applications for AY 2021-22**

The management of BRAC promotes research projects to be undertaken by the faculty pursuing research in various areas. To strengthen it, VIIT has set up special interest groups, research mentor and mentee schemes and research internship is further step towards it.

Aim of the research internship scheme is to encourage students to participate in research activities and to prepare them to respond to the current and future needs of the industry. This is also to inculcate research culture, so that more number of students shall opt for higher education and research career.

These research internships shall help students, wish to pursue further education viz. M.S. and M. Tech, for writing their Statement of Purpose and to get research intern certificate with research experience. This shall help to get good universities and research assistantship in early career.

The students will work FULL TIME for one semester, counting to approx. 450 (05 hours \* 90 days) hours on a specific topic and innovate/ develop / implement / test an idea from the faculty mentor. These students might be sitting in labs / library / Computer center / Workshop / Open areas in the institute for their work. These students and mentor faculty might need to visit some collaborator / research institute / Labs for the work. Need to attend online / physical seminars and conferences / attend some specific training sessions available / work on the data including validation of it.

If a student or two are working on an idea, it will be approx. 500 to 1000 man-hours of the work along with some inputs from experts in and outside the institute. This shall certainly help in developing an idea and passing it to next group for implementation / implementing an idea and passing it for testing to next group for testing and product out of it. / Publishing research papers or applying for a patent / Industrial Design / Copyright as one of the outcome along with research outcomes from the work.

In order to utilize the man-hours effectively and to achieve the set objectives of the research, faculty mentors will present their pre-work while floating a proposal for internship. Set objectives with the justification behind, thought on methodology and its feasibility, planning of resources in terms of HR and Infra is what will make it work and students can achieve their internship goals. Longer duration research projects will be floated in phased manner, where students are expected to work for a

semester with a phased project plan and objectives for every semester and quantifiable outcomes.

Students, if they had identified some internship with some research organization of repute and of national importance like BARC, TIFR, NCL, DBT, CEMET, CDAC and NASSCOM or with the research wings of corporates like Emerson, Honeywell, L&T and similar are welcome with the proposal. These students shall get in touch with departmental coordinators for connect with faculty mentor and formulating an internship proposal from mentor, in collaboration with the research organization.

### **Guidelines for applying for research internship**

1. Student shall clearly state area of interest, details of projects, summer internships done up-to third year and its outcome, may be in the form of report, paper or IPR.
2. Every student has to apply individually, as internship is for individual, to get the credits for the same.
3. Student shall go through the research internship proposals floated by faculty mentors and can apply to these in preferential manner. Department will scrutinize the applications and allot internships based on student interest, mentors consent and merit.
4. This is FULL TIME internship for one semester and student need to report his mentor every working day during the period of internship. Maintains a activity cum log book and works under supervision / guidance of the mentor.

### **Important Dates:**

<b>Sr. No.</b>	<b>Activity</b>	<b>Time Line</b>
1	Submission of application to get internship (Through class teacher to internship coordinator)	Before start of Semester ( During vacation of earlier Semester) <b>Last date to apply: 30<sup>th</sup> June 2021</b>
2	Shortlisting of applications	First Week of Semester <b>Upto 4<sup>th</sup> July 2021</b>
3	Presentation schedule of available projects and allotment of interns to project	Second Week of Semester : <b>Before 15<sup>th</sup> July</b>
4	Duration of FULL TIME internship	From second week of semester to last week of semester. (can be extended in vacation, if reqd.)

5	Evaluation of Interns for award of credits	As per schedule published by examination section ( Preferably in a week of project examination)
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### **WHO SHALL APPLY?**

1. Students in Final year of UG in First of Second Semester are eligible to apply for internship.
2. Student can apply in either of the semester.
3. Applications must be in prescribed formats, with required attachments and forwarded through class teachers to Internship coordinator.

### **Selection Process and award of research internship:**

1. Short listed students may be interviewed by mentor and departmental committee for the purpose of allotment. Decision of committee shall be final and binding to all participants.
2. No. of interns get selected is subjected to availability of research proposals, suitability of candidates and decision of committee. There is no assured internship to all, those who apply.
3. The selection of the projects will be based on and presentation of short-listed proposals in front of Expert Committee and recommendation from Head of the concern department.
4. Department shall display list of selected interns along with project title and mentor after selection process is over and before end of first two weeks of semester.

### **Monitoring of Internship:**

1. Review of internships shall be conducted at end of every month, at the departmental level.
2. Final review, which shall be prior to evaluation by expert from outside VIIT, will be conducted at institute level where objectives-vis-à-vis outcomes shall be discussed and approved. Recommendation for future work shall be sought by a mentor, if required.
3. Evaluation of interns has to be carried out by external experts from either research institutes, institutes of repute in SPPU and Industry experts working in the domain. External evaluator shall be paid as per the rules of examination section.

### **Expected outcomes:**

1. A bound copy of the final report of work done during the internship along with softcopy to be submitted with department on completion of the internship. A copy of the final report shall be kept in the library of the respective department(s).
2. **Minimum one of the following has to be completed before evaluation:** A publication of a research paper in an international / national peer reviewed, indexed journal International Conference / Filing a patent is mandatory.

### **POLICY FOR EXECUTION**

1. On publication in International Journal, one copy of the paper to be submitted to the research wing. The affiliation of the institute is MUST in the research paper.
2. The final report of internship report should include
  - (i) Technical Report along with conclusions (two hard bound copies) / and published, presented, accepted paper(s) (A soft copy)
  - (ii) Activity Log books showing weekly break-up of activities during internships
3. In addition to terms and conditions in the document, governing rules of the institute and trust will govern the execution of the internships and these will be binding to all faculty members taking students for internship.
4. Institute will provide a letter certifying accomplishments during internship, signed by Hon. Director of the institute and sealed.
5. In addition to terms and conditions in the document, governing rules of the institute and trust will govern the execution of the projects and these will be binding to all investigators.

**Asso. Dean / Dean (R&D)**

**Director**