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SHRI G.S. INSTITUTE OF TECHNOLOGY & SCIENCE

(Govt. Aided Autonomous Institute, Established in 1952)

23, Sir M. Visvesvaraya Marg (Park Road), INDORE - 452 003 (M.P.) India

(Shri Govindram Seksaria Institute of Technology & Science, Indore M.P.)

Ref. :

Date :

Dated: 01/07/2023

RESEARCH PROMOTION

Policy document of Shri G. S. INSTITUTE of Technology & Science

Shri G.S. institute of technology and science believes in a judicious combination of teaching and research for the benefit of student community and society at large. The Institution envisages innovation and technological development through its R & D cell. It has plans to cultivate academic and research collaborations that meet the immediate needs of society and the industry. The Institution also remains committed to long-term research as the foundation for future development.

Objectives:

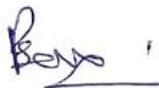
- i. To enhance the research awareness among faculty by organizing discussions with eminent researchers and conducting, conferences, seminars, symposia, faculty development programs and workshops.
- ii. To motivate faculty to pursue doctoral and post-doctoral assignments at organizations of repute.
- iii. To encourage faculty to undertake research projects in thrust areas in engineering and science funded by various national agencies.
- iii. To provide a creative research atmosphere, by adequate facilities and resources for faculty and students.
- iv. To establish Centres of Excellence in thrust areas in different departments in collaboration with Industry.
- v. To set up the Incubation centres to motivate innovations and start-ups.
- vi. To publish the research works in renowned journals.
- vii. To develop products and file IPR.

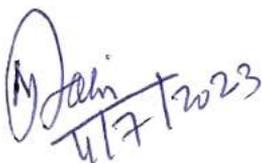
Central R&D Cell:

The R & D committee of R&D cell comprises of faculty members from various departments in the Institution and this committee oversees the smooth and efficient co-ordination of research and development activities in the Institution, thus fostering overall growth. The committee's members will contribute towards enhancing research and development.

- a. The R & D committee will plan, promote & evaluate R&D activity like funded R&D projects and consultancy projects at the Institution level.
- b. The members meet once in a month to discuss & measure the status of ongoing projects, sets target for every year and devise plans to achieve the target.
- c. A senior faculty heads this cell in the capacity of R & D Coordinator, with the Dean R&D providing advisory support. The constitution of the cell is as follows.

Chairman : Director




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Co-Chairman: Dean R & D

Members : One faculty from every department and each department has the department R& D Coordinator who will monitor the R& D activities of the department. The faculty of the departments will be grouped and they will be allotted projects pertaining to their area of expertise and interest with interdisciplinary nature.

Responsibility of the R & D Cell:

- i. To encourage and motivate faculty for externally funded research and development projects.
- ii. To support interdisciplinary and multidisciplinary research, product design and development with publications in journals.
- iii. To facilitate collaborations with researchers from premier Institutions and to encourage joint research.
- iv. To initiate and promote MoU with industries and R & D organizations for consultancy and research.
- v. To conduct seminars, workshops, conferences and training programs among faculty.
- vi. To visit R&D organizations for effective implementation of research projects.
- vii. To keep everyone abreast of all announcements by various funding agencies like Department of Science and Technology, Department of Atomic Energy (DAE), Defence Research & Development Organization (DRDO), Indian Space Research Organization (ISRO), Council of Scientific and Industrial Research (CSIR), All India Council for Technical Education (AICTE) and University Grants Commission (UGC).
- viii. To motivate students to present technical papers in workshop and conferences and display projects in competitions and exhibitions.
- ix. To depute faculty for seminars, workshops, FDPs and conferences in order to upgrade their knowledge.

Funded Projects and Consultancy Work:

The general guidelines for faculty engaging in research, development and consultancy are as follows:

A. Basic Guidelines:

- i. Every research proposal shall pass through a multi-tier review, where the proposal shall first be reviewed by the Principal Investigator/ Co- Investigator and then by the concerned Head of the Department. This may be followed by review by eminent researchers in the field. The proposal shall then be vetted by the R&D committee before submission to the funding agency.
- ii. All applications related to R&D shall be routed through the Director along with one hard copy for R&D records. A soft copy shall also be emailed to the Dean R&D and also to the Head of the Department.
- iii. Separate stock registers shall be maintained for the entire R&D for the externally funded projects in every department.
- iv. Purchase of equipment, software and submission of the audit report thereof shall follow the Finance Officer guidelines.
- v. Principal Investigator and Co-Investigator shall ensure that the equipment and software purchased are maintained in the laboratory/ department and shall be entered in the stock register
- vi. The entire sanctioned amount shall be utilized as per the guidelines of the funding agency.
- vii. In case the Principal Investigator leaves the Institution, all the items purchased shall remain as an asset of the Institution.
- viii. All Heads of the Department must regularly and diligently update the R&D information on the

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Institution website for department and give reports to Dean R&D.

ix. **Patents:** Full financial and legal assistance shall be provided to those who are interested in registering for the patent. The patent shall irrevocably be registered in the name of SGSITS with the researcher's name prominently featuring as the inventor. The commercial aspects shall be mutually worked out between the Institution and the researcher, for the benefit of both.

x. **Research & Development Budget:**

The Head of the Department shall formulate the yearly R&D budget, in close co-operation with the senior faculty members, of department PI of the ongoing projects. The same is forwarded to the director through Dean R&D.

xi. **Academic Research Policy:**

- a) Faculty of each department in order to promote PG student's research shall conduct research in focus areas of research.
- b) Faculty publication in either WEB OF SCIENCE or SCOPUS indexed journals are appreciated with appropriate incentives. The publication target has been set as 1 web science and 1 Scopus publication for doctorates and 2 Scopus indexed journals for non-Doctorates, as per university ordinance score for all faculty
- c) Individual Citation Score needs to be improved by publishing in reputed journals. All publications and research papers of faculty have to go through plagiarism check.

xii **Sponsored and Internal research related policies:**

- a) Faculty shall apply for a minimum of one government funded project.
- b) All departments shall strive for recognition by National/International agencies through schemes/funding from agencies such as AICTE, DST, UGC, ICMR and DRDO.
- c) Faculty are encouraged to identify inter-disciplinary research in their field of expertise.
- d) The faculty of all the departments shall tie-up with industries and undertake funded research in emerging areas and industry relevant areas.
- e) The Institute shall create special research groups to concentrate on research in government listed areas.
- f) All innovative projects of faculty are earmarked for filing patents on successful completion, suitable recognition and incentives will be given to those faculty members.
- g) The Institute norms are fixed to pay expenses towards procurement of equipment to those faculty members working on funded projects.
- h) Consultancy assignments must have a letter from the organization, clearly mentioning the work to be carried out, period and value of consultancy and the benefit of the consultancy to the Institution - both intellectually as well as financially. Proof of expenditure must be maintained by the consultancy in-charge.
- i) Meritorious research work/consultancy by faculty is awarded with incentives.

xiii **. Principal Investigator (PI)**

Principal Investigator (PI) of a sanctioned project is considered to be the prime interface between the funding agencies and is the operational head of the project. The PI is advised to keep the whole project team aware about the progress of the project and involve the Co-PIs in all related project activities. In his/her absence, the Co-PI to take-over the responsibility of running the project.

xiv. **Facilities available on Campus:**

The research facilities available on campus are:

- i. A well-equipped library with Books, and e-journals by IEEE, Springer link, ASME, McGraw Hill access and digital Library access with printed national and international journals.

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- ii. Access to high quality technical content is available for referenc facility in the library.
- iii. All facilities that are available in CIDI, SIF, I-deas Lab and PG Lab with Software's like MATLAB, Lab View, CATIA, UG, ANSYS are openly provided for research. Also various Microcontroller kits are available and hardware for clustering, android based platforms, Wireless sensor network sensor nodes, 3D Printers, Impact testing machine, Fatigue testing machine are available in the department



DIRECTOR

Director Shri G. S. Instt. of Tech. & Sc.
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