

SALIENT FEATURES OF RESEARCH DIVISION

VISION OF THE INSTITUTE

B.S. Abdur Rahman Crescent Institute of Science and Technology aspires **to be a leader in Education, Training and Research** in multidisciplinary areas of importance and to play a vital role in the Socio-Economic progress of the Country in a sustainable manner. B.S. Abdur Rahman Crescent Institute of Science and Technology aims to be research-intensive institution, which is in alignment with our vision.

VISION AND MISSION OF RESEARCH DIVISION OF OUR INSTITUTE

VISION

B.S.Abdur Rahman Crescent Institute of Science and Technology strives to be a “Research Intensive Institution” through various quality enhancement and sustainable initiatives

MISSION

- To offer Ph.D programme in all the Departments of the Institution
- To offer BSA Research Fellowships in all the departments to attract young talents
- To conduct periodical review meetings for research scholars to ensure quality
- To disseminate the research findings through publications
- To introduce innovative schemes to encourage quality research and to increase number of research publications
- To introduce a conducive ambience so as to bring in a research culture.

The following are some of the important aspects of the research division

A. Research Advisory Committee

To render advice and guidance for future growth on research related issues to the top management a “Research Advisory Committee” is being constituted with experts from various research institutes and industries. The committee will provide advice on Academic Research, Sponsored Research, Consultancy, Industrial Training etc. The scope of the activities envisaged for the committee include,

- To provide policy guidelines and direction for the growth and development of research activities
 To advice on thrust areas and disciplines for introducing research programmes and related activities for future development in research.
- To suggest measures for improving existing infrastructural facilities both for academic and sponsored research and enhancing research ambiance.
- To recommend projects and suitable for availing concession if any from State and Central Governments.

B. Major Research Facilities - Instrumentation Available For Research

Some of the important equipments are listed below

S.No	Name of the Equipment
1	Atomic Absorption Spectrophotometer
2	Microprocessor controlled UTM. of 100T capacity
3	Photo Elastic Test setup
4	Advanced Tri-axial shear strength test equipment with pore pressure measuring unit
5	CNC Turning Center and Vertical Machining Center for machining experiments

6	Load cells & strain gauge indicators, Vibration sensor, Acoustic Emission sensor and vibration shaker
7	Versamax PLC for automation with software
8	Data Acquisition System and Exhaust Gas Analyzer for engine testing
9	High speed digital storage oscilloscope with GPIB interface for data acquisition
10	Image analyzer with CCD camera for microstructure analysis, Tool makers microscope and Coordinate measuring machine surface roughness tester
11	Low speed wind tunnel
12	Swirl injector Test rig
13	Rocket Fuel sampling and Firing setup
14	Drones and UAV modelling
15	Three Tank Interacting Level Process with Closed loop Control Setup



High Performance liquid Chromatography



Freeze Dryer

C. Research activities organized by the Research Division

Some of the research activities organized are given below

(i) A two-day workshop on ‘Writing for Research Purpose’ (19 & 20 July 2019)



The Office of Dean (Research) in association with the department of English of B.S. Abdur Rahman Crescent Institute of Science & Technology organized a two day workshop on “Writing for Research Purpose” during 19 – 20 July 2019. The objective of this workshop is to enhance research skills of researchers in writing quality research

articles and thesis effectively. The workshop was organized under the guidance of Honorable Vice Chancellor of the Institution. Dr.I.Raja Mohamed, Dean(Research) has explained about and importance of plagiarism and awareness of predatory journals for the scholars and faculty members as per UGC Regulations. Dr. Md Khurshid, Deputy Dean (Research) and Dr.E.Syed Mohamed, Assistant Dean(Research) emphasized the need for avoiding predatory journals, publishing articles in peer reviewed journal, Plagiarism Issues and Anti Plagiarism tools respectively. Dr.S.Vijayakumar, Assistant Professor (English) has explained in his lecture about Structuring a thesis and Research paper. Dr.Albert P' Rayan and Dr.Antony Samy are external resource persons and provided inputs about the Mechanics of Writing Research Articles and Citations respectively. The Process of writing an Academic Research paper covered by Dr.K.Ganesh. Totally 100 participants attended this workshop and it inspired all the researchers to identify research problems in an efficient way to carry out research work which should be for the betterment of society.

(ii) A seminar on “How to write project proposal in International collaboration projects” on 2nd November 2018



In order to promote sponsored projects, international collaborative projects,

consultancy, Dean, Research office has been engaged in various activities. As a part of such activity many eminent scientists, professors of national level are invited to Crescent to develop direct dialogue with the Deans, HODs and Faculty. Towards this direction, Dr. C. Sivaji, senior scientist, Head, International Division, Department of Science and Technology (DST), Govt. of India, New Delhi presided as chief guest.

(iii)Workshop on “Scholarly Article Writing and Journal Publications”



A one day Technical Workshop on “Scholarly Article Writing and Journal Publications” held on 13th March 2018, Tuesday by the Office of Dean(Academic Research),B.S.Abdur Rahman Institute of Science & Technology, Chennai. The Chief Guest of the Workshop was Dr. T. VELMURUGAN, PG & Research Department of Computer Science, D. G. Vaishnav College (Autonomous), Chennai. Totally 67 scholars were attended the workshop.

D. Central Institution Facilities

- Central Instrumentation Centre
- Museum
- Central Fabrication Facility
- Studio
- Media Laboratory
- Research Statistical Databases

E. Research Incentive Scheme

The primary objective of the proposed incentive scheme is to motivate the faculty members of our Institution to undertake quality research, consultancy and other related activities. The scope of the scheme is

- To motivate faculty members to concentrate on research related activities in addition to the teaching so as to publish articles in reputed refereed international and national journals with impact factor.
- To pursue efforts to write books, monographs for publication by International and National publishers of reput.
- To evince interest among the members of faculty so that they take efforts to establish collaborative research projects with their counterparts in reputed foreign Universities.
- To encourage the faculty to submit proposals and secure funded research projects from various funding agencies in India and abroad.
- To undertake consultancy projects sponsored by both the Government and Private Industrial and other organizations.
- To encourage creativity in the minds of faculty, so that they make original contributions by way of products, concepts etc. and obtain patents.

IMPORTANT LINKS

Details	Link
Research Advisory Committee	https://crescent.education/research/about-us/research-advisory-committee-staff/
Journals & Publications	https://crescent.education/research/about-us/journals-publications/
Major research facilities	https://crescent.education/research/about-us/major-research-facilities/
Central Research facilities	https://crescent.education/research/about-us/central-institution-facilities/
Research activities	https://crescent.education/research/about-us/research-activities/
Projects completed	https://crescent.education/center-for-sponsored-research/projects-completed/
Projects sanctioned	https://crescent.education/center-for-sponsored-research/projects-ongoingsanctioned/
Consultancy projects	https://crescent.education/center-for-sponsored-research/consultancy-projects/revenue-generated/
Research incentive scheme and awards	https://crescent.education/research/about-us/research-incentive-scheme/
Code of ethics	https://crescent.education/research/about-us/code-of-ethics/
MoU	https://crescent.education/center-for-sponsored-research/mou/