



No: AU / R&D/NOT/09/05-2021

## **Establishment of the Inter-Disciplinary Centres for Research at Adamas University**

With reference to the 8<sup>th</sup> Academic Council approval, under section AC 8.23, dated 15<sup>th</sup> January, 2021, ratified by the Governing Board and subsequent order of the competent authority following Inter-disciplinary R&D centres are established and will start functioning with immediate effect:

### **A. Centre for High End Computing & Research**

#### **Research Centre Coordinator:**

**Prof. (Dr.) Sujoy Bhattacharya**, Professor & Head, Department of Computer Science & Engineering, Director – Consultancy & Outreach, Adamas University

Following **Charter of Duties & Scope of Research** will be associated with the R&D Centre:

1. To do research in the field of high-end computing, with focus on soft computing and algorithm development.
2. To promote inter-disciplinary pioneering R&D activities that includes Pharmacy, Biotechnology, Science and Engineering.
3. To implement scientific utilization of cloud-based computing and remote server usage to execute algorithms.
4. Areas of research will include but not be limited to bio-computing, DNA / Stem Cell analysis, basic & applied sciences, bio-medical engineering, real-time programming, image processing and machine learning.
5. To focus on publication in frontline journals.
6. To promote obtaining of membership in apex bodies like IEEE and its equivalent to receive latest information about current research.
7. To collaborate with Universities / Industries both for learning , knowledge exchange, Conference-seminar & R&D program , collaborative project and consultancy work in identified areas of expertise.



## **B. Centre for Stem Cell Research**

### **Research Centre Coordinator:**

**Dr. Maharshi Krishna Deb**, Associate Professor & Associate Director, Centre for Research & Innovation, Adamas University

Following **Charter of Duties & Scope of Research** will be associated with the R&D Centre:

1. To conduct research in various aspects of mammalian germline development.
2. To conduct research on early events encompassing early embryonic development in mammals
3. To conduct research on identifying various adult stem cell niches and their functionality in regulating tissue and organ development and homeostasis.
4. To conduct research to delineate underlying genetic and epigenetic mechanisms that controls stem cell differentiation and regeneration.
5. To learn lessons from above mentioned research activities to ameliorate pathophysiology of human aging which is the greatest risk for most human diseases.
6. To promote research activities through collaboration with allied departments within and outside University with focus on collaborative / joint project and consultancy.
7. To focus publication in the area in frontline journals and Patent filing.

## **C. Centre for Research in Business Analytics**

### **Research Centre Coordinator:**

**Dr. Nilanjan Ray**, Associate Professor, Department of Management, Adamas University

Following **Charter of Duties & Scope of Research** will be associated with the R&D Centre:

1. To collaborate with industry in applying of data-intensive approaches to current business priorities, thus to provide consultancy and advisory service to industry.
2. To inspire thought leadership in business analytics by facilitating research collaboration between scholars, practitioners, and faculties for solving real-world problems using data-driven techniques and tools
3. To focus on conducting Business analysis events
4. To encourage business research Collaboration with National / International institutions.
5. To provide training on business analytic techniques and their applications in business.
6. To organize various workshops/ seminar/ FDPs/ MDPs related to promotion of Interdisciplinary Business research domains
7. To attract consultancy project and collaborative research from Industry and academia.



#### **D. Centre for Education, Research & Development**

##### **Research Centre Coordinator:**

**Dr. Prarthita Biswas**, Associate Professor & Head of the Department, Department of Education, Adamas University

Following **Charter of Duties & Scope of Research** will be associated with the R&D Centre:

1. To conduct research open for funding in National and International arena.
2. To conduct interdisciplinary program in interdisciplinary area with associated departments
3. To establish research collaboration with reputed NGOs and to introduce certificate courses through joint program.
4. To involve innovative methods to carry out research through different modern techniques.
5. Special emphasis on research publication in frontline journals.
6. To promote membership of apex bodies like Indian Association of Teacher Educators (IATE), IHS, Asiatic Society of Dhaka, Bangladesh to receive latest information about current research.
7. To collaborate with Universities / inter research centres/organizations for learning / event organization as well as consultancy work, joint program/project and policy making.

#### **E. Centre for Material Research**

##### **Research Centre Coordinator:**

**Prof. (Dr.) Bimal Kumar Sarkar**, Professor Department of Physics, Adamas University

Following **Charter of Duties & Scope of Research** will be associated with the R&D Centre:

1. To develop core competences in Synthesis, Characterisation and Processing of materials.
2. To develop a community of resourceful individuals in advanced materials.
3. To prepare repository of information about materials, processes and technologies.
4. To provide high quality education programs in Post-graduation and PhD in advanced materials science and technology.
5. To encourage faculty collaborations across institutes, industries.
6. To attract research funding from different funding agencies in the country.
7. To conduct seminars, conferences and other educational activities related to advanced materials.
8. To enable scholars, faculties for achieving scholarly recognition nationally as well as internationally through research publications.
9. To achieve excellence in research for the recognition in different academic accreditation process.

**Date: 19<sup>th</sup> May, 2021**

Sd/-

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Dean (Research & Development)