

**Ramakrishna Mission Vivekananda Educational
and Research Institute**
Deemed-to-be-University



Placement Brochure

M.Sc. in
Big Data Analytics & Computer Science

2025-26

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ABOUT RKMVERI



RKMVERI received NAAC accreditation with A++ grade, scoring 3.66/4 CGPA, declared on 28 March 2019.



RKMVERI was declared a deemed-to-be university by MHRD, Government of India, through a gazette notification on 5 January 2005.

Swami Vivekananda believed education should be transformative, focusing on character-building rather than mere information. He envisioned a system combining India's spiritual wisdom with Western scientific knowledge. Through the Ramakrishna Math, he promoted this vision and inspired initiatives like the Indian Institute of Science. The Ramakrishna Mission Vivekananda Educational and Research Institute (RKMVERI) was established to realize his ideals by offering value-based, holistic education that integrates moral strength, spiritual insight, and scientific excellence for individual and societal growth.

MISSION & VISION

Vision: To be a premier centre of learning that blends natural and humanistic sciences, harmonizing ancient Indian wisdom with modern scientific and technological excellence, and imparting life-building, character-making education to youth for their personal growth and the greater good, as envisioned by Swami Vivekananda.

Mission:

- **Pursuit of Excellence** To strive for excellence in teaching, research and all academic endeavors
- **Blending of Eastern and Western values** To integrate Indian values like Shraddha, truth, and selflessness with modern ideals like scientific temper and integrity, nurturing youth with harmonious development of heart, head, and hand through yoga.
- **Social responsibility** To train and educate the youth to become socially responsible citizens to collectively rebuild a rejuvenated, glorious India by first of all building an impeccable, lofty character at the individual level.



MESSAGE FORM VICE CHANCELLOR'S DESK

“

Arise , awake and stop not till the goal is reached.
- Swami Vivekananda

RKMVERI follows in the footsteps of Swami Vivekananda to realize the vision of “**Man-making, character-building education.**”

RKMVERI follows in the footsteps of Swami Vivekananda to realize the vision of “Man-making, character-building education.” As a deemed university under the philanthropic and charitable Ramakrishna Math and Mission organization, it upholds a proud tradition of nurturing researchers, teachers, and professionals who embody personal integrity, perseverance, and team spirit, while consistently striving for excellence and perfection.

The Computer Science and Data Science streams remain at the forefront of modern educational trends, placing strong emphasis on building a solid technical foundation.

I extend my best wishes to our students, wherever they may be, and hope they become leaders, pioneers, and entrepreneurs — or efficient, empathetic, and loyal coworkers — who uphold and exemplify the highest humanitarian values.

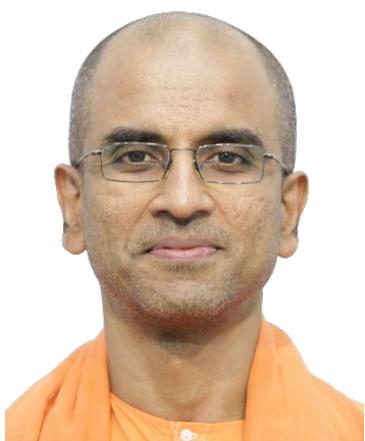


MESSAGE FORM HEAD'S DESK

“

Take up one idea. Make that one idea your life – think of it, dream of it, live on that idea. Let the brain, muscles, nerves, every part of your body be full of that idea, and just leave every other idea alone.

This is the way to success.
- Swami Vivekananda



This profound statement from Swami Vivekananda encapsulates the spirit of focus and dedication that drives our department. We believe that in-depth expertise and unwavering commitment are essential for achieving outstanding results in both academia and industry.

We nurture a learning environment that promotes creativity, critical thinking, and a lifelong quest for knowledge. Our curriculum is carefully crafted to equip students with the skills and insights needed to address real-world challenges and engineer innovative solutions.

By fostering a culture of deep learning and focused research, we empower our students to emerge as experts in their domain and make meaningful contributions to the fields of Computer and Data Science. Let us move forward together, pursuing excellence with steadfast determination.

FACULTY LIST



Swami Sarvottamananda

Professor & Vice Chancellor, RKMVERI
PhD (1995): IIT, Kanpur, India

Research Area

Computational Geometry, Design of Algorithms, Combinatorial Optimization, Complexity Theory, Center-points, Intersection Radii.



Swami Punyeshwarananda

Assistant Professor & HOD
PhD (2012): University of Queensland, Australia

Research Area

Machine learning, Computer Vision, Natural Language Processing, Embedded Systems



Dr. Subir Kumar Ghosh

Professor (Ramanujam Professor, NBHM)
PhD (1987): TIFR, Mumbai, India

Research Area

Computational Geometry and Applications, Robot Motion Planning, Geometric Graph Theory and Applications, Discrete Mathematics



Swami Shastravidyananda

Assistant Professor & COE
Master of Engineering (2003): Jadavpur University, West Bengal, India

Research Area

Algorithm Design and Analysis



Br. Tamal

Assistant Professor
PhD (2016): University at Buffalo, Buffalo, NY, USA

Research Area

Artificial Intelligence, Machine Learning, Decision Theory, Database Systems, Networking, Computer Security



Dr. Joydeep Mukherjee

Assistant Professor
PhD: Institute of Mathematical Sciences, Chennai, India

Research Area

Graph Theory, String Graphs, Computational Geometry



Dr. Soumitra Samanta

Assistant Professor
PhD (2016): Indian Statistical Institute, Kolkata, India

Research Area

Data Science, Machine Learning, Computer Vision and Chem-informatics



Dr. Sudipta Das

Assistant Professor
PhD: Indian Institute of Science, Bangalore, India

Research Area

Reliability, Stochastic Processes, Data Analytics, Real Time Systems



Champak Kumar Dutta

Teaching And Research Assistant
M.Tech. CS: Indian Statistical Institute, Kolkata, India

COURSEWORK - BIG DATA ANALYTICS

SEMESTER 01

- Statistics
- Probability & Stochastic Process
- Linear Algebra & Matrix Computation / NPTEL Electives
- Data Structures and Algorithms
- Machine Learning
- Java and Hadoop
- Universal Human Values

SEMESTER 02

- Advance Statistics
- Deep Learning and NLP
- Time Series and Survival Analysis
- Topics in Graph Algorithms / Distributed Computing and Graph Databases
- Computer Vision / Applied Statistics /Applied Machine Learning
- Communicative English
- Indian Knowledge System

SEMESTER 03

- Database Management System
- Artificial Intelligence / Reinforcement Learning
- Econometrics & Finance
- Multivariate Statistics
- Term Project

- Graph Machine Learning
- Thesis
- Research/Industrial Internship
- NPTEL course

SEMESTER 04

COURSEWORK - COMPUTER SCIENCE

**SEMESTER
01**

- Design and Analysis of Algorithms
- Theory of Computation
- Statistics
- Linear Algebra & Matrix Computation
- Probability and Stochastic Processes
- Machine Learning
- Universal Human Values

**SEMESTER
02**

- Topics in Spectral Graph Theory
- Computational Complexity
- Advanced Algorithms
- Blockchain, LLM, IoT
- Computer Vision / Deep Learning
- Communicative English
- Indian Knowledge System

**SEMESTER
03**

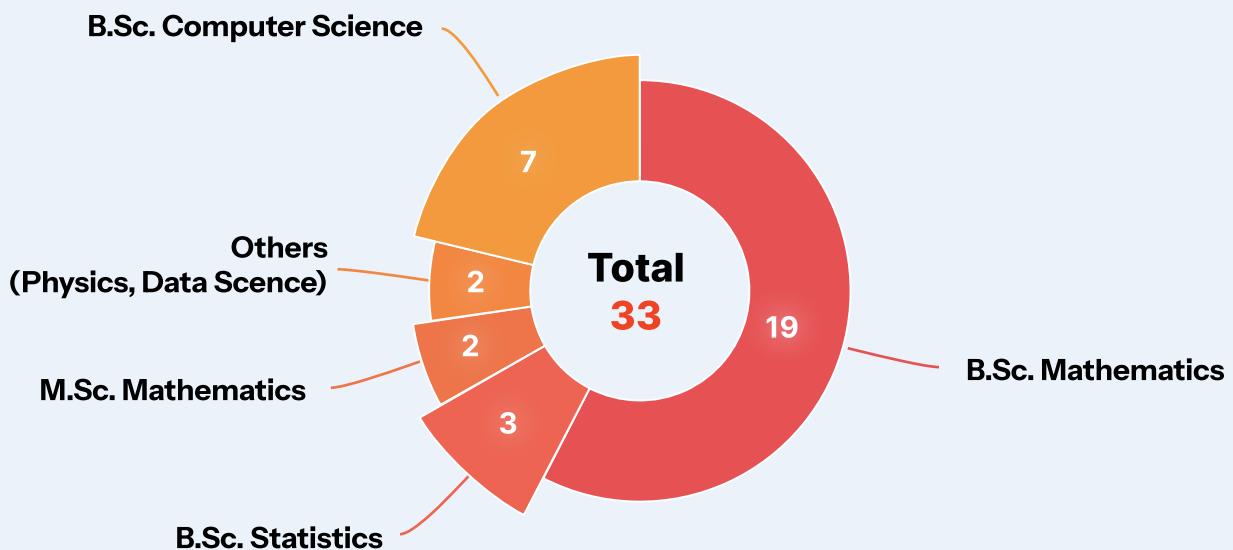
- Advanced LLM & Cybersecurity
- Reinforcement Learning
- Database Management Systems
- Mining of Massive Dataset
- Randomized and Approximation Algorithms
- Computational Geometry
- Term Project

**SEMESTER
04**

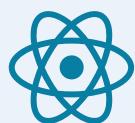
- Graph Machine Learning
- Thesis
- Research/Industrial Internship
- NPTEL course

BATCH DEMOGRAPHIC

Academic Background



Technical Skills



LangGraph
LangChain



ONGOING PROJECTS

1. Natural Language Processing (NLP)

- **Lekhani:** A Transformer-Based Approach for Bengali Speech to Text Transcription
- **ShrutiGPT:** A Transformer-Based Approach for Sanskrit Speech Recognition
- End to End Text to Speech Transformation for Sanskrit using VITS
- End to End from Newspaper Article Snap to Summarization in Speech
- Enhancing Text Generation with Graph-Driven Retrieval-Augmented Generation
- LLM Based Time Table Generation

2. Computer Vision

- Audio-Visual Expression Generation from Text/Image
- Distinguishing AI-Generated Images from Human-Created Images Using Variational
- Autoencoders
- Indian Sign Language Recognition into Continuous Text
- Video Moment Retrieval Using Query-Specific Visual Features
- Multimodal Sentiment Analysis with 3D Talking Head Generation

3. Security and Adversarial Research

- Adversarial Attacks on Aligned LLMs
- Enhancing LLM Security: Layer-Specific Knowledge Editing for Jailbreak Defense
- and Detoxification

4. Graph-Based Analysis

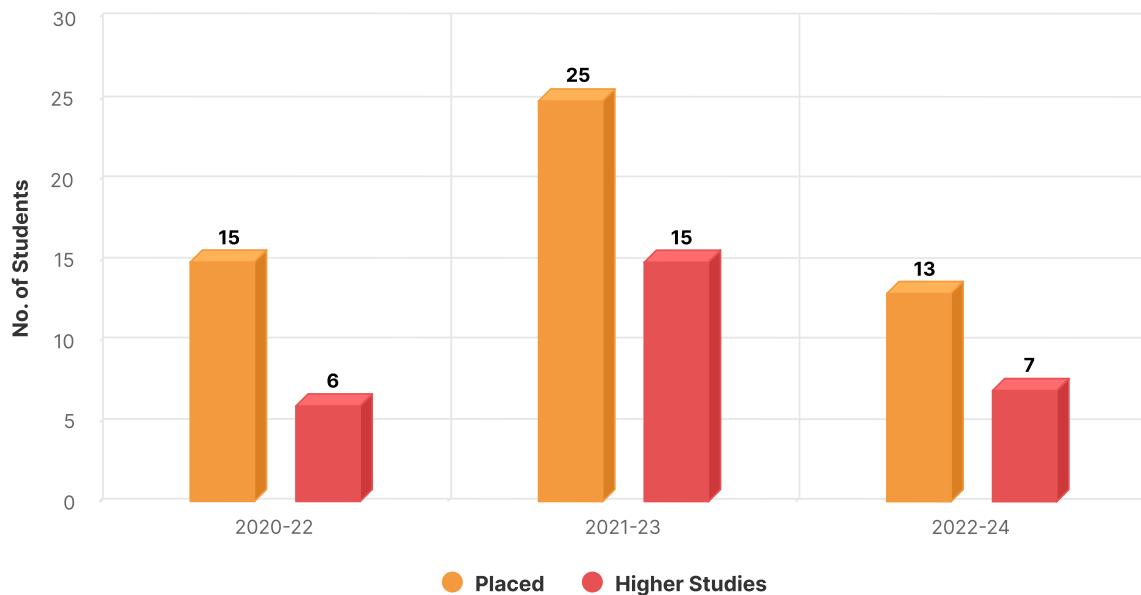
- Social Network Analysis: A Graph-Based Approach
- Graph Neural Retrieval for Large Language Modeling Reasoning

5. Code and Data Analysis

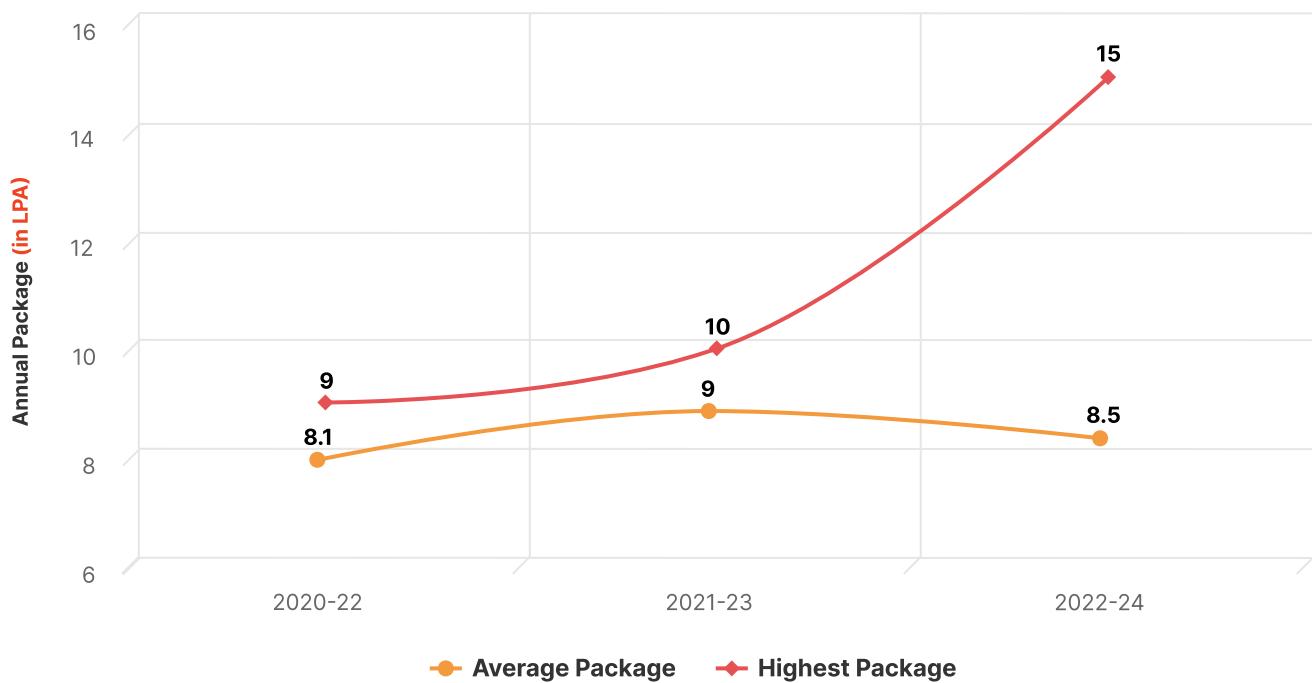
- Code Clone Detection and Code Summarization
- LLM on Structured Data
- Handwriting Recognition

PLACEMENT STATISTICS

Batch Statistics



Package Statistics



PLACEMENT STATISTICS cont.

Industrial Internship Status of Batch 2023-2025

The **current batch (2023-2025)** is presently engaged in their final semester internships. Placement activities are yet to be concluded. The stipends for the ongoing internships stands at:

Average Stipend

₹20,000

Median Stipend

₹25,000

They were **offered profiles like:**

- **Data Engineer**
- **Risk Analyst**
- **Software Engineer**
- **Data Analyst**
- **Associate Consultant**
- **Business Analyst**
- **ML Engineer**
- **Data Scientists**
- **Backend Engineer**

Their **areas of expertise include:**

- **Econometrics Modelling**
- **Prompt Engineering**
- **Time Series Forecasting**
- **AI/ML Engineering**
- **Web Development**
- **Computer Vision**
- **NLP**
- **Finance and Control**
- **Data Analysis**
- **Data Mining**

Summer Internship Status of Batch 2024-2026

The students of **current batch (2024-26)** has secured summer internship opportunities in:



भारतीय प्रौद्योगिकी संस्थान खड़गपुर
INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR



भारतीय प्रौद्योगिकी संस्थान पटना
Indian Institute of Technology Patna



Indian Association for the Cultivation of Science
(Deemed to be University under *de novo* category under Section 3 of the University Grants Commission (UGC) Act, 1956; vide Gazette Notification No. F.9-7/2017-U.3 (A) of the Central Government)



**Indian Institute of Technology
Guwahati**



IEST, Shibpur
आई आई ई एस टि, शिवपुर
Erstwhile B E College (Estd 1856)



**INTERNATIONAL INSTITUTE OF
INFORMATION TECHNOLOGY**
HYDERABAD



**INDIAN INSTITUTE OF
TECHNOLOGY, ROPAR**

**GREAT
LAKES**
GURGAON

PAST RECRUITERS



Shape the future
with confidence

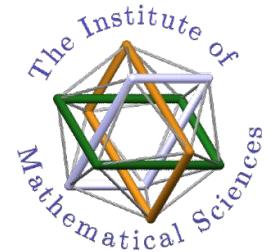
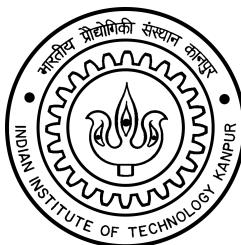


GHAR BANEGA, TOH DESH BANEGA.



DOCTORAL PURSUITS

Indian Institutes



भारतीय नोंकेंटिक विज्ञान संस्था पूर्व
भारतीय प्रौद्योगिकी संस्थान हैदराबाद
Indian Institute of Technology Hyderabad

tcg crest

Inventing Harmonious Future



INTERNATIONAL INSTITUTE OF
INFORMATION TECHNOLOGY
HYDERABAD



INDRAPRASTHA INSTITUTE of
INFORMATION TECHNOLOGY DELHI

Foreign Institutes



جامعة الملك عبد الله
للعلوم والتكنولوجيا
King Abdullah University of
Science and Technology

ALUMNI TESTIMONIALS

“



”

RKMVERI's Computer Science department shaped me into a confident tech professional through its rigorous academics, supportive faculty, practical projects, and holistic environment that nurtured both skill and character.

Sayantan Paul
Lead Data Scientist, Jio Cinema

“



”

RKMVERI transformed my academic journey, proving that honest effort matters more than past scores. With mentorship and dedication, I found joy in learning and built a successful tech career.

Ayan Gangopadhyay
Data Scientist, Neotomi

“



”

RKMVERI shaped my research journey through dedicated mentorship, modern curriculum, and a focus on societal impact. It taught me that perseverance, not talent, drives success—academically and personally.

Jimut Bahan Pal
PhD Student, IIT Bombay

Contact Us

Reach out to our Placement Cell or department
for more information

Placement Cell

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linkedin.com/school/rkmveribda 

Head of the Department

Swami Punyeshwarananda

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Placement Officer

Br. Bhaswarachaitanya (Tamal Maharaj)

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