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

NAAC A++

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

DEEMED TO BE UNIVERSITY

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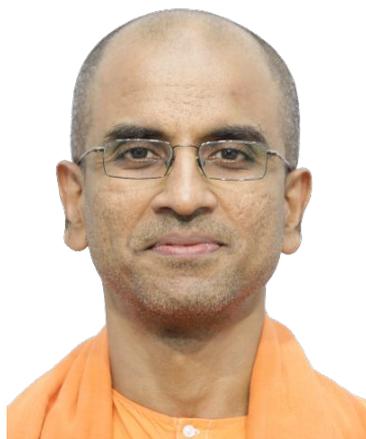
This profound statement from Swami Vivekananda encapsulates the spirit of focus and dedication that drives our department. We believe that in-depth expertise and unwavering commitment are essential for achieving outstanding results in both academia and industry.

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**

GUEST FACULTY

Dr. Sudeep Mallick

Guest Faculty at RKMVERI
PhD (2000) Indian Institute of Technology
(Banaras Hindu University), Varanasi

Research Area
Big Data Computing, Software
Engineering and Operations Research

Dr. Manoranjan Pal

Guest Faculty at RKMVERI, Retired
Professor , ISI Kolkata
PhD (1983) Indian Statistical Institute

Research Area
Errors in Variables, Statistics, Econometrics

Dr. Gopal Krishna Basak

Guest Faculty at RKMVERI, Assistant
Professor & Dean of Studies, ISI Kolkata
PhD Indiana University 1989

Research Area
Singular and switching Diffusions, Diffusion
approximation and Limit Theorems, Stochastic control
and games, Dynamic models

Dr. Raju Maiti

Guest Faculty at RKMVERI, Assistant
Professor, Economic Research Unit, ISI
Kolkata
Ph.D. in Statistics from the Indian
Statistical Institute (ISI) Kolkata (2015)

Research Area
Discrete-valued time series analysis, Coherent
forecasting, Econometrics, Zero-inflated discrete
distributions, Missing data analysis (Multi-ple
imputation)

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

SEMESTER 03

- Database Management System
- Reinforcement Learning
- Econometrics & Finance
- Multivariate Statistics
- Mining of Massive Dataset / Deep Learning for Cybersecurity
- Term Project

SEMESTER 04

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

COURSEWORK - COMPUTER SCIENCE

SEMESTER 01

- Design and Analysis of Algorithms
- Theory of Computation
- Statistics
- Linear Algebra & Matrix Computation
- Probability and Stochastic Process
- 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

- Deep Learning for Cybersecurity
- Reinforcement Learning / Database Management Systems
- Mining of Massive Dataset
- Randomized and Approximation Algorithms
- Computational Geometry
- Term Project

SEMESTER 04

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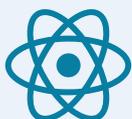- Research/Industrial Internship
- NPTEL course

BATCH DEMOGRAPHIC

Academic Background

B.Sc. Computer Science

Others
(Physics, Data Science)

M.Sc. Mathematics

B.Sc. Statistics

7

2

2

3

Total
33

19

B.Sc. Mathematics

Technical Skills

APACHE Spark

APACHE hadoop

kafka

neo4j

H2O.ai

TS

React

MySQL

Git

Linux

Java

R

PyTorch

C

LangGraph

LangChain

OpenCV

FastAPI

TensorFlow

K Keras
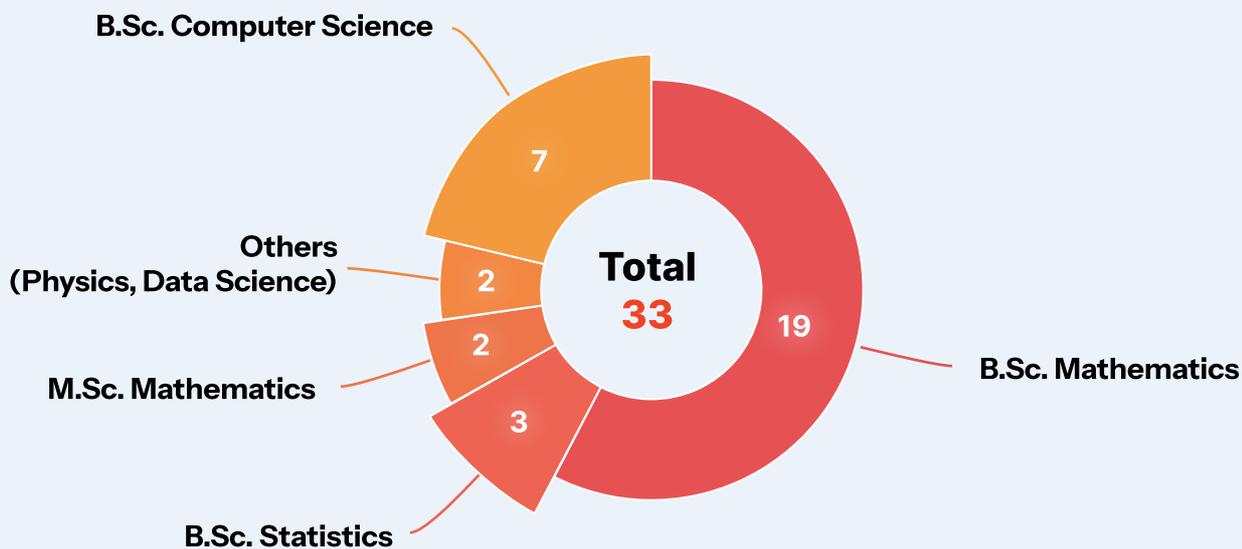
PLACEMENT STATISTICS

Batch Statistics

Legend: Placed, Higher Studies

Batch	Placed	Higher Studies
2020-22	15	6
2021-23	25	15
2022-24	13	7
2023-25	27	7

Package Statistics

Legend: Highest Package, Average Package

Batch	Highest Package	Average Package
2020-22	9	8.1
2021-23	10	9
2022-24	15	8.5
2023-25	9.5	7.2
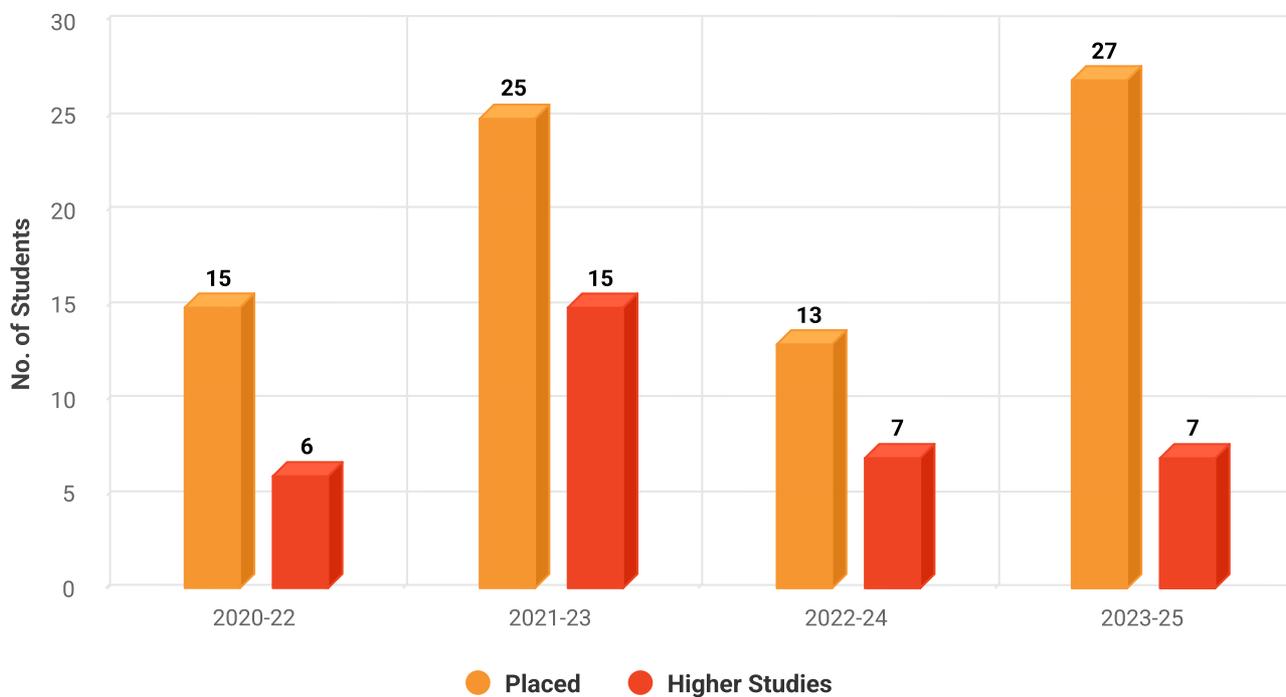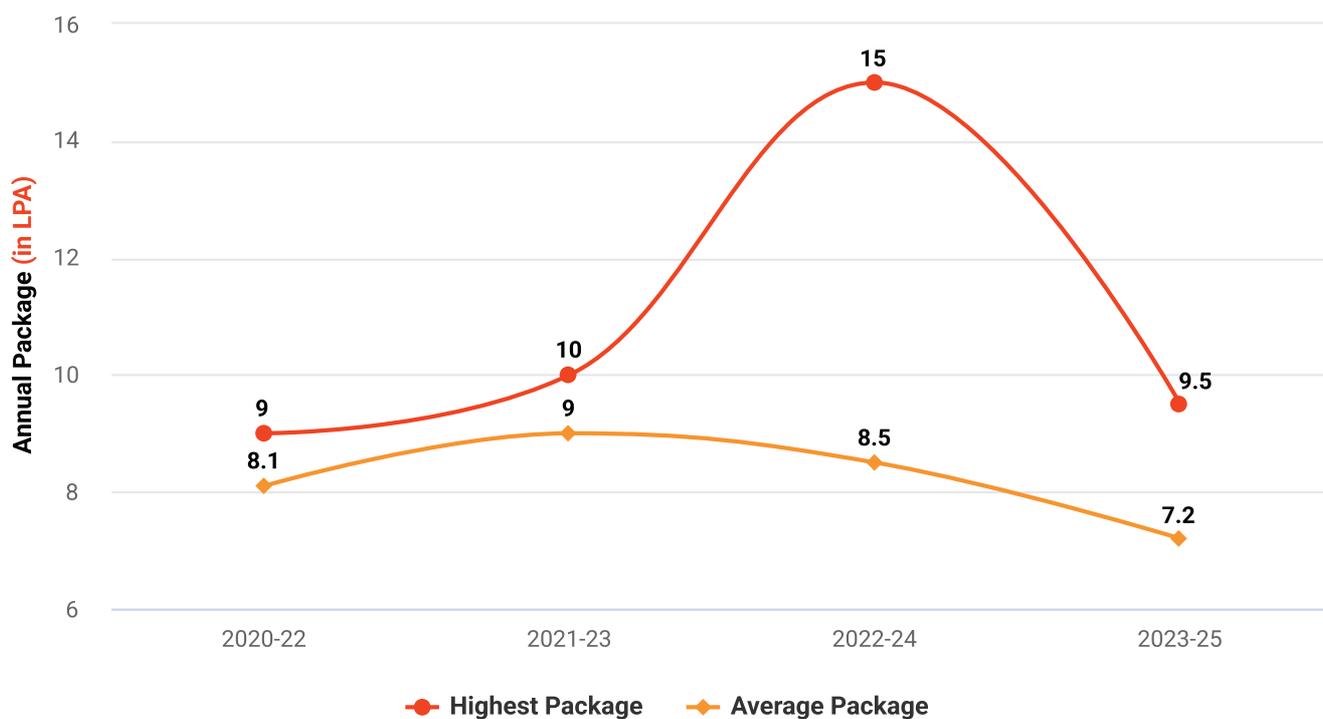
PLACEMENT STATISTICS cont.

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**	Median **Stipend**
₹20,000	₹25,000

They were **offered profiles** like:

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

Their **areas of expertise** include:

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

Summer Internship Status of Batch 2024-2026

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

PAST RECRUITERS

DOCTORAL PURSUITS

Indian Institutes
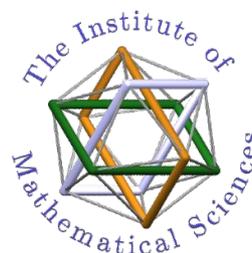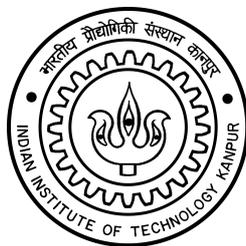
Foreign Institutes

ALUMNI TESTIMONIALS

The M.Sc. in BDA at RKMVERI played a pivotal role in shaping my career in Data Science and AI. The rigorous coursework, hands-on projects, and constant deadlines helped me build a strong foundation in programming, data visualization, machine learning, AI, and statistical modeling. Regular assignments and assessments fostered discipline, critical thinking, and collaboration —preparing me to handle high-pressure situations and lead multiple projects with confidence in today's dynamic tech landscape

Sayandeb Saha
Deputy Manager at Titan Company Limited

I still remember being the last one to join the batch. I had actually gotten into Delhi University for Applied Operations Research. But choosing to join RKMVERI turned out to be such a good decision. The MSc Big Data Analytics course at RKMVERI was the stepping stone that led me to my first role as a Data Scientist. The learning, discipline, and values I absorbed here gave me the foundation to grow both personally and professionally. The teachers were amazing — super helpful and supportive — and I genuinely learned a lot here. I'm deeply grateful to all the mentors and teachers who guided and supported me along the way.

Falak Jabin
Manager Data Science at Axtria - Ingenious Insights

My time at RKMVERI was truly transformative. It gave me not just technical knowledge, but also a strong value system and clarity of purpose. The supportive environment, dedicated faculty, and focus on holistic learning helped shape the person and professional I am today.

Ujjwal Chowdhury
Data Scientist at Reverse Bank Innovation Hub

ALUMNI TESTIMONIALS

> RKMVERI has been more than just an academic institution for me—it's where my love for research and Theoretical Computer Science truly began. The emphasis on understanding ideas from the ground up shaped the way I think. I'm deeply grateful to mentors like Shreesh Mj, SwathyPrabhu Mj, Sourav Mj, Prof. Subir Ghosh, Prof. Aditya Bagchi, Sagnik da, and Joydeep da, whose guidance and encouragement meant a lot to me.

Susobhan Bandopadhyay
Postdoc at TIFR Mumbai

> My experience at RKMVERI has been transformative, providing me with a robust foundation in machine learning, vision, and optimization. The exceptional faculty, with their diverse academic and industry backgrounds, delivered a comprehensive curriculum that significantly enhanced my understanding of these fields. Their final semester's industry/research experience proved instrumental in helping me identify and pursue my career aspirations post-Masters. RKMVERI's conducive academic environment fostered both intellectual growth and professional development, making it an ideal place for advanced studies.

Subhrangshu Bit
PhD at Boston University

> My time at RKMVERI was transformative, two years of intense learning, innovative thinking, and growth under pressure. The extensive coursework, numerous assignments to be built from scratch, real world problem driven projects and all of these with the support of some incredible professors laid a strong foundation that continues to empower me in my role as a Quantitative Analyst, both in solving complex problems and thriving under pressure.

Shibajee Sarkar
Quantitative Analyst in Morningstar DBRS

Contact Us

Reach out to our Placement Cell or department for more information

Placement Cell

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Swami Punyeshwarananda

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Placement Officer

Br. Bhaswarachaitanya (Tamal Maharaj)

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