(149-SCI-05-03) M.SC DATA SCIENCE

Significance of the program:

Data Science is an interdisciplinary field in computer Science Domain which focuses on extracting knowledge from typically large data sets and applying the knowledge and insights from that data to solve problems in a wide range of application domains. It Enhances decision-making by analysing large data sets and communicating the findings to key stakeholders and improves efficiency by streamlining processes and automating tasks. It Helps businesses make sense of all the information they collect, improve their products and services, make more informed decisions, and target their marketing efforts more effectively. It also combines the foundation subjects like Maths and statistics with specialized programming and advanced analytics

Career Options:

Pursuing this professional course, students can explore the following opportunities:

- Data Scientist
- Data Analyst
- System Engineer
- Application Developer
- Data Analytics
- Business Analyst
- Data Analytics Manager
- Data architect
- Application Architect

Outputs	Outcomes
M.Sc(Data Science) program objectives are to make students	A student who Persued M.Sc(Data Science) will
• Is designed to deliver in-depth and most-relevant skills in conventional areas of data engineering and analysis such as in businesses,	• Become skilful enough to apply skills, techniques and knowledge in the real world with respect to different sets of data for solving or

finances, and industrial and scientific research, as well as in relatively newer areas such as in social data analysis, big data. • Being a data engineer who can handel data in its most raw form, a data scientist who works with different types of data models, or a data analyst who derives and interprets new insights from data	enhancing different problems in the field of business, manufacturing, banking, genome analysis, business analytics and many other fields • Attain proficiency with statistical analysis of Data. • Execute statistical analyses with professional statistical software. • Gain skills in Data management. • Develop the ability to build and assess Data based models. • Apply data science concepts and methods to solve problems in real-world contexts and will communicate these solutions effectively

Major Course Modules

1. Fundamentals of Data Science
2. Statistical Methods for Data Science
3. Statistical Package for Social Science
4. Tableau
5. Artificial Intelligence and Machine Learning
6. Information Retrieval and Data Mining
7. Big Data Analytics and R Programming
8. Cloud Computing and I.O.T
9. Deep Learning
10. Block chain Technology