



REVISION OF COURSE

MANUALS/STRUCTURE AND MATERIALS

Details of Prior and Post Syllabus revision of B.Sc. Data Science (Honours / Honours with Research) Programme-2024-25

B.Sc. Data Science (Honours / Honours with Research) Programme

Programme started in	2021-22					
	Year	Yes	No	NA	Revised Summary (attached/not attached/NA)	BOS (attached/not attached/NA)
Revised in	2024	Yes			Attached	

Overall content Revision –45%

B.Sc. Data Science (Honours / Honours with Research)			
Revision summary for change between 2022 and 2024			
S. No.	Syllabus - prior to revision	Syllabus - post revision	Approximate % of revision
1	The curriculum designed under the conventional 3-year UG framework.	The curriculum aligned with NEP 2020 and name of the programme changed as B.Sc. Data Science (Honours / Honours with Research) <ul style="list-style-type: none"> Multiple exit options with certifications/diplomas. Minor streams, multidisciplinary electives, and research opportunities included. 	100% changed
2	Total credits: 130.	Total Credits: <ul style="list-style-type: none"> 3-year exit: 127 	23% Changed

		<ul style="list-style-type: none"> 4-year Honours/research: 167 	
3	Not Present in old BOS.	<p>Introduces industry-relevant technical skill courses:</p> <ul style="list-style-type: none"> SE231P/AWS Usage and Applications SE241P/Salesforce SE351T/Unix/Linux Shell Programming SE471T/R Programming BD361T/ Introduction to Drone Technology Integration of MOOC-based courses for Minor-V. 	100% changed
4	Not Present in old BOS.	<p>New curriculum includes structured Minor Streams:</p> <ul style="list-style-type: none"> Artificial Intelligence (Bucket 1) and Cyber Security (Bucket 2) Courses span from basics to advanced: <p>MS212T /Introduction to Natural Language Processing,</p> <p>MS313T /Deep Learning,</p> <p>MR426T /Ethical Hacking</p> <ul style="list-style-type: none"> Categorized into seven progressive minor electives across semesters. 	40% changed
5	<p>Multidisciplinary courses include only two domains:</p> <ol style="list-style-type: none"> Management courses Mathematics courses 	<p>Multidisciplinary course domains include the following courses:</p> <ol style="list-style-type: none"> Commerce & Management (MD111T /Fundamentals of Accounting and Finance, MD112T /Principles of Management) Humanities & Social Sciences (MD113T /Sociology) Natural and Physical Sciences (MD231T /Digital Electronics, MD233T /Introduction to Biotechnology) 	100% changed

		4. Mathematics, Statistics and computer Application (MD232T /Data Communication and Network)	
6	No provision industry training/internship.	<ul style="list-style-type: none"> Includes BD354P /Industrial Training / Internship / Certification from Semester V onward. 	100% changed
7	No provision of research-oriented courses.	<ul style="list-style-type: none"> Provision of students securing $\geq 75\%$ marks in first 6 semesters can opt for Research Track. Courses include: BR472T /Scientific Writing Skills, BR473T /Research Ethics, BR474P /Research Project / Dissertation Phase-I BR482P /Research Project / Dissertation Phase-II 	100% changed