



Swami Rama Himalayan University

NAAC A+

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.	<p>The curriculum aligned with NEP 2020 and name of the programme changed as B.Sc. Data Science (Honours / Honours with Research)</p> <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.	<p>Total Credits:</p> <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"> 1. Management courses 2. Mathematics courses 	<p>Multidisciplinary course domains include the following courses:</p> <ol style="list-style-type: none"> 1. Commerce & Management (MD111T /Fundamentals of Accounting and Finance, 2. MD112T /Principles of Management) 2. Humanities & Social Sciences (MD113T /Sociology) 3. 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: <p>BR472T /Scientific Writing Skills,</p> <p>BR473T /Research Ethics,</p> <p>BR474P /Research Project / Dissertation Phase-I</p> <p>BR482P /Research Project / Dissertation Phase-II</p> 	100% changed