



NEHRU ARTS AND SCIENCE COLLEGE (AUTONOMOUS)



(Affiliated to Bharathiar University Accredited with “A+” Grade by NAAC,
ISO 9001:2015 (QMS) & 21001:2018 (EOMS) Certified, Recognized by UGC with 2(f) & 12(B),
Under Star College Scheme by DBT, Approved by AICTE, Govt. of India)
Nehru Gardens, Thirumalayampalayam, Coimbatore - 641 105, Tamil Nadu, India.
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LOCF - Scheme of Examination (PG)

Programme : M.Sc Data Science

Programme Code: MDT

(Applicable to the students admitted during the Academic year 2026-2027 and onwards)

Semester	Course Code	Name of the Course	Instruction hours / week	Duration of Examination	Examination Marks			Credits
					CIA	ES E	Total	
I	26PGDTC101	DSC I:Principles of Data Science	5	3	25	75	100	4
	26PGDTC102	DSC II: Data Analytics with R Programming	4	3	25	75	100	4
	26PGDTC103	DSC III:Descriptive Statistics	5	3	25	75	100	4
	26PGDTQ101	DSC IV:Practical in Data Analysis using Python	5	3	40	60	100	4
	26PGDTQ102	DSC V:Practical in Analytics with R Programming	6	3	40	60	100	4
	26PGDTE101 / 26PGDTE102 / 26PGDTE103	DSE I:Business Intelligence / Text Analytics/ Artificial Intelligence	4	3	25	75	100	4
	26PGAHV201	VAC I : Advanced Human Values and Professional Ethics	1					
			30				600	24
II	26PGDTC204	DSC VI: Deep Learning for Data Science	5	3	25	75	100	4
	26PGDTC205	DSC VII: Data Visualization Techniques using Tableau	5	3	25	75	100	4
	26PGDTC206	DSC VIII: Linear Algebra	5	3	25	75	100	4
	26PGDTQ203	DSC IX: Practice in Learning with Python	5	3	40	60	100	4
	26PGDTQ204	DSC X:Practical in Visualization using Tableau	5	3	40	60	100	4
	26PGDTE204 / 26PGDTE205 / 26PGDTE206	DSE II: Web Analytics/ Social Media Analytics/ Predictive Analytics	4	3	25	75	100	4
	26PGAHV201	VAC I : Advanced Human Values and Professional Ethics	1				50	2
			30				650	26

III	26PGDTC307	DSC XI : Natural Language Processing	5	3	25	75	100	4
	26PGDTC308	DSC XII : Data Privacy and Security	5	3	25	75	100	4
	26PGDTC309	DSC XVI : Research Methodology and Ethical Principles	4	3	20	55	75	3
	26PGDTC310	DSC XIII: Probability and Inferential Statistics	5	3	25	75	100	4
	26PGDTC305	DSC XIV: Practical in Data Visualization using Power BI	5	3	40	60	100	4
	26PGDTC301	DSC XV: Internship	-	-	50	-	50	2
	26PGDTE307 / 26PGDTE308 / 26PGDTE309	DSE III: Big Data Analytics/ Nature Inspired Computing/ Cloud Security	4	3	25	75	100	4
	26PGDTONLC	DSE IV :Online course Swayam/ NPTEL	-	-	-	-	100	4
	26PGCES302	VAC II : Community Engagement and Social Responsibility	2		50		50	2
			30				775	31
IV	26PGDTC410	DSC XVII :IoT Analytics	6	3	20	55	75	3
	26PGDTV401	DSC XVIII :Project Work and Viva voce	20	-	100	100	200	8
	26PGDTE410 / 26PGDTE411/ 26PGDTE412	DSE V: Practical in Data Analysis using PSPP/ Practical in Exploratory Data Analysis Practical in Data Analytics using MongoDB	4	3	40	60	100	4
			30				375	15
						Total	2400	96

Discipline Specific Elective Courses (DSE) (05Courses)

Elective Papers	Course Code	Group	Course	Sem.	Hours	Marks	Credits
DSE I	26PGDTE101	A	Business Intelligence	I	4	100	4
	26PGDTE102	B	Text Analytics				
	26PGDTE103	C	Artificial Intelligence				
DSE - II	26PGDTE204	A	Web Analytics	II	4	100	4
	26PGDTE205	B	Social Media Analytics				
	26PGDTE206	C	Predictive Analytics				
DSE III	26PGDTE307	A	Big Data Analytics	III	4	100	4
	26PGDTE308	B	Nature Inspired Computing				

	26PGDTE309	C	Cloud Security				
DSE IV	Students shall select any DSE in NPTEL/ SWAYAM as per the recommendations of BoS			III	-	100	4
DSE V	26PGDTE410	A	Practical in Data Analysis using PSPP	IV	4	100	4
	26PGDTE411	B	Practical in Exploratory Data Analysis				
	26PGDTE412	C	Practical in Data Analytics using MongoDB				
Total						500	20

List of Advanced Level Courses (Additional Credits Courses)

S. No.	Course Code	Name of the Course
1	26PGDSSS01	Data Analysis using MS-Excel
2	26PGDSSS02	Optimization Techniques
3	26PGDSSS03	Distributed Computing
4	26PGDSSS04	Data Mining

*Guidelines for DSE courses through SWAYAM/ NPTEL

- The BoS shall recommend DSE courses with a credit weightage of 4 under SWAYAM/ NPTEL platform and students shall select any one course out of that.
- Students should register for online courses during November- December (Beginning of second semester)
- Students should complete the Examination and submit their certificate before September (Before they appear for ESE of Third Semester).
- There shall be a coordinator in each department to ensure the registration and submission of certificates to the office of CoE.

CHAIRMAN
Board of Studies in Computer Science
Nehru Arts and Science College