



**JAGAT GURU NANAK DEV  
PUNJAB STATE OPEN UNIVERSITY, PATIALA**

A State University Established by Govt. of Punjab vide Act No. 19  
of 2019 and Approved Under section 2(f) of UGC

## School of Sciences & Emerging Technologies

### Programme: M.Sc. (Computer Science)

**Duration of the Programme: 2 Years**

#### Eligibility:

Having passed any recognized Bachelor's Degree of minimum 3 Years' duration with Computer Science or Computer Applications or Mathematics or Statistics or Economics or Operation Research as one of the Courses in the Graduation Level from a university recognized by UGC.

*Learners who have not been studied Computer Science or Computer Applications or Mathematics or Statistics or Economics or Operation Research as one of the courses in the Graduation Level, they may be admitted in M.Sc. (Computer Science) Programme, but they pass a Bridge Course (Non- Credit Qualifying Course) during the Programme.*

**Programme Coordinator: Dr. Karan Sukhija**

**Total Credits of Programme: 80**

Semester-1							
S. No.	Name of Course	Course Code	Internal Marks	External Marks	Total Marks	Credits	Course Coordinator
1	Computer Programming	MSCS-1-01T	30	70	100	4	Dr. Karan Sukhija
2	Computer Programming Lab	MSCS-1-01P	15	35	50	2	Dr. Karan Sukhija

*[Handwritten signatures and dates in blue and red ink, including the name 'Moulika' and the date '21/2/24']*

3	DBMS	MSCS-1-02T	30	70	100	4	Dr. Monika Pathak
4	DBMS Lab	MSCS-1-02P	15	35	50	2	Dr. Monika Pathak
5	Probability & Statistical Analysis	MSCS-1-03T	30	70	100	4	Dr. Pinky Sra
6	Fundamentals of Digital Marketing	MSCS-1-04T	30	70	100	4	Dr. Balpreet Singh
Total			150	350	500	20	

Semester-2							
S. No.	Name of Course	Course Code	Internal Marks	External Marks	Total	Credits	Course Coordinator
1	Operating Systems	MSCS-2-01T	30	70	100	4	Dr. Monika Pathak
2	Operating Systems Lab	MSCS-2-01P	15	35	50	2	Dr. Monika Pathak
3	Data Structure & Algorithms	MSCS-2-02T	30	70	100	4	Dr. Baljit Singh Khehra
4	Data Structure & Algorithms Lab	MSCS-2-02P	15	35	50	2	Dr. Baljit Singh Khehra
5	Introduction to Cyber Security	MSCS-2-03T	30	70	100	4	Dr. Amitoj Singh
6	Software Engineering	MSCS-2-04T	30	70	100	4	Dr. Monika Pathak
Total			150	350	500	20	

Semester-3							
S. No.	Name of Course	Course Code	Internal Marks	External Marks	Total Marks	Credits	Course Coordinator
1	Web Programming	MSCS-3-01T	30	70	100	4	Dr. Karan Sukhija
2	Web Programming Lab	MSCS-3-01P	15	35	50	2	Dr. Karan Sukhija
3	Data Mining & Visualization	MSCS-3-02T	30	70	100	4	Dr. Amitoj Singh
4	Data Mining & Visualization Lab	MSCS-3-02P	15	35	50	2	Dr. Amitoj Singh
5	Computer Networks	MSCS-3-03T	30	70	100	4	Dr. Karan Sukhija
6	Introduction to Data Science	MSCS-3-04T	30	70	100	4	Dr. Amitoj Singh
Total			150	350	500	20	

Semester-4							
S. No.	Name of Course	Course Code	Internal Marks	External Marks	Total Marks	Credits	Course Coordinator
1	Machine Learning	MSCS-4-01T	30	70	100	4	Dr. Baljit Singh Khehra
2	Research Methodology and IPR	MSCS-4-02T	30	70	100	4	Dr. Karan Sukhija
3	Major Project	MSCS-4-03P	60	140	200	10	Dr. Karan Sukhija
4	Seminar	MSCS-4-04	50	0	50	2	Dr. Kanwalvir Singh Dhindsa
Total			170	280	450	20	



## M.Sc. (Computer Science)

### Bridge Course

Sr. No.	Course Name Code	Course Code Name	Internal Marks	External Marks	Total Marks	Credits	Course Coordinator
1	Fundamentals of Statistics & Computer Science	BCCSD-01	30	70	100	--	Dr. Karan Sukhija

*Handwritten signatures in blue ink:*  
A large signature on the left, followed by several smaller, overlapping signatures. One signature appears to read "Moukya".

*Handwritten signature in red ink.*

*Handwritten signature in blue ink with date:*  
21/2/24