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## Introduction to Database Systems

By Prof. Sreenivasa Kumar | IIT Madras

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**Learners enrolled: 24652 | Exam registration: 1249**

### Introduction to Database Systems - Course Introduction



#### ABOUT THE COURSE :

Databases are the backbone of almost all the digital services and e-governance solutions. Modern businesses and financial systems heavily depend on databases systems and transaction processing for their successful operation. This course introduces the students to the various theoretical and practical principles involved in the design and use of databases systems with the help of database management systems (DBMS) and the SQL Standard

**INTENDED AUDIENCE** : Any Interested Learners

**PREREQUISITES** : Studying B Tech (computer science) 3rd year, Discrete Mathematics or Discrete Structures, Programming and Data Structures

## Summary



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Language for course content :



Duration :

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Category :

Upcoming

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Core

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English

12 weeks

- Computer Science and Engineering
- Programming
- Systems

Credit Points :

3

Level :

Undergraduate

Start Date :

20 Jan 2025

End Date :

11 Apr 2025

Enrollment Ends :

03 Feb 2025

Exam Registration Ends :

14 Feb 2025

Exam Date :

27 Apr 2025 IST

Note: This exam date is subject to change based on seat availability. You can check final exam date on your hall ticket.

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## Course layout

**Week 1** : Introduction and part of E/R Model Module

**Week 2** : ER Model Module

**Week 3** : Relational Model Module

**Week 4** : Relational Model Module

**Week 5** : TRC Module and part of SQL Module

**Week 6** : SQL Module

**Week 7** : Indexes Module

**Week 8** : Indexes Module + Query Processing Module

**Week 9** : Normal Forms Module

**Week 10** : Normal Forms Module

**Week 11** : Transaction Processing Module

**Week 12** : Transaction Processing Module



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## Instructor bio

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**Prof. Sreenivasa  
Kumar**

IIT Madras

The instructor Dr P Sreenivasa Kumar has been a member of the faculty of the CSE Dept for the past two decades. His research interests are: databases, semi-structured data and XML, theory and applications of ontologies. He completed his Masters and PhD from the Department of Computer Science and Automation of Indian Institute of Science, Bangalore.

## Course certificate

The course is free to enroll and learn from. But if you want a certificate, you have to register and write the proctored exam conducted by us in person at any of the designated exam centres.

The exam is optional for a fee of Rs 1000/- (Rupees one thousand only).

Date and Time of Exams: **April 27, 2025** Morning session 9am to 12 noon; Afternoon Session 2pm to 5pm.

Registration url: Announcements will be made when the registration form is open for registrations.

The online registration form has to be filled and the certification exam fee needs to be paid. More details will be made available when the exam registration form is published. If there are any changes, it will be mentioned then.

Please check the form for more details on the cities where the exams will be held, the conditions you agree to when you fill the form etc.

### CRITERIA TO GET A CERTIFICATE

Average assignment score = 25% of average of best 8 assignments out of the total 12 assignments given in the course.

Exam score = 75% of the proctored certification exam score out of 100

Final score = Average assignment score + Exam score

**Please note that assignments encompass all types (including quizzes, programming tasks, and essay submissions) available in the specific week.**

**YOU WILL BE ELIGIBLE FOR A CERTIFICATE ONLY IF AVERAGE ASSIGNMENT SCORE  $\geq 10/25$  AND EXAM SCORE  $\geq 30/75$ . If one of the 2 criteria is not met, you will not get the certificate even if the Final score  $\geq 40/100$ .**

Certificate will have your name, photograph and the score in the final exam with the breakup. It will have the logos of NPTEL and IIT Madras. It will be e-verifiable at [nptel.ac.in/noc](http://nptel.ac.in/noc) (<http://nptel.ac.in/noc>).

Only the e-certificate will be made available. Hard copies will not be dispatched.

Once again, thanks for your interest in our online courses and certification. Happy learning



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