INDIAN INSTITUTE OF TECHNOLOGY ROORKEE

NAME OF DEPTT./CENTRE:　　**Department of Computer Science and Engineering**

1. Subject Code:　**CSN-101**　　　Course Title:　**Introduction to Computer Science & Engineering**

2. Contact Hours:　　**L: 2**　　　　　　**T:　0**　　　　　**P:　0**

3. Examination Duration (Hrs.):　　**Theory**　　**2**　　　**Practical**　　**0**

4. Relative Weightage**: CWS**　**15**　**PRS**　**0**　**MTE**　**35**　**ETE**　**50**　**PRE**　**0**

5. Credits**:**　**2**　　　6. Semester**: Autumn**　　　7. Subject Area**: DCC**

8. Pre-requisite**:**　　　**NIL**

9. Objective:　To introduce the discipline of Computer Science & Engineering.

10. Details of Course:

S. No.	Contents	Contact Hours
1.	Evolution of Computer Hardware and Moore's Law	2
2.	Problem solving using Computers; Flow charting technique and writing algorithms	6
3.	Introduction to Computer Structure: CPU, 8085 Assembly Language.	8
4.	Basics of Computer Networks, Client Server Computing, Web Technology.	6
5.	Emerging trends and applications of Computers Science and Engineering, impact of Computer in Science and Engineering.	6
	Total	**28**

11. Suggested Books:

S. No.	Name of Books / Authors/ Publishers	Year of Publication/ Reprint
1.	Mano M.M., "Computer System Architecture", Prentice-Hall of India, 3rd Edition.	**2004**

2.	Sahni S., "Data Structures, Algorithms and Applications in C++", WCB/McGraw-Hill.	**2001**
3.	Hall D.V., "Microprocessors and Interfacing", Tata McGraw-Hill, 2nd Edition.	**2006**
4.	Tanenbaum A.S, "Computer Networks", Pearson Education, 6th Edition.	**2012**