

GURU NANAK DEV ENGINEERING COLLEGE, LUDHIANA
DEPARTMENT OF INFORMATION TECHNOLOGY

NOTICE

No. IT/29/1509

Date. 26/11/19

Conduct of Diagnostic Test of UG Students by NPIU through NASSCOM

National Project Implementation Unit (NPIU) [a unit of Ministry of Human Resource Development, Government of India, for implementation of World Bank assisted Projects in Technical Education] is going to conduct a Diagnostic Test through NASSCOM, a National Association of Software and Services Companies in our TEQIP-III institute i.e. Guru Nanak Dev Engineering College, Ludhiana to check the competency level of students for the requisite training and to identify knowledge/skills as well as strengths and weaknesses.

Following are the details of the Diagnostic Test:-

The test is divided into two parts: Part A and Part B

Diagnostic Test– Part A

Skill	Competencies Checked	Duration (in mins.)
Communication Ability	Verbal building blocks by evaluating skills like grammar, spellings, punctuations and vocabulary. To assess English usage by evaluating skills like structure, arguments and verbal reasoning.	11
Reading Comprehension	Comprehension of English passages and ability to make inferences from a large amount of information. Be able to connect the dots and make an assessment based on information and ideas spread across the passage.	10
Analytical Ability and Logical Reasoning	Problem solving skills through questions on quantitative reasoning. To assess candidate's logical skills by evaluating skills like Deduction, Induction and Visualization.	20
Attention to Detail	Eye for detail.	5
Ability to manage work and safety	Awareness of and ability to work in an organisational context through questions around organisational policy, procedures, team structure, time management and health and safety issues	14
	<i>total duration</i>	60 mins.

Link of Sample Test Paper for Part A of Diagnostic Test is as follows:-

[http://nactech.nasscom.in/Web/Download.aspx?FileName=NAC-Tech%20-20Sample%20Paper%20\(Abridged\).pdf](http://nactech.nasscom.in/Web/Download.aspx?FileName=NAC-Tech%20-20Sample%20Paper%20(Abridged).pdf)

Diagnostic Test– Part B

Skill	Competencies Checked	Duration (in mins.)
Computer Fundamentals	Knowledge and understanding of basics of a computer, its components and functions, instruction cycle	6
Operating Systems	Knowledge and understanding of system and operating software, process management, memory management, file system management and device management	4
Networking	Knowledge and understanding of Networking, inter-networking and distributed networking	4
RDBMS	Understanding and application of files and Databases, Entity Relationship Modelling, Normalization and SQL	4
SDLC	Understanding and application of phases of SDLC and its implementation models	4
Algorithms & Programming Fundamentals	Understanding and application of phases of SDLC and implementation models. Problem solving ability (i.e. understanding and application of Logic and Problem Solving techniques, Algorithm Design Techniques, Sorting Algorithms, Basic Data Structures and Analysis of Algorithms) and Programming ability (including Basic Programming Concepts, Control Structures and Best Practices in Programming, Arrays and Pointers, String Handling, Functions, Code Optimization Techniques)	4
Design / System Architecture	Importance of architecture, process to identify the communication, control and frame work of subsystems, output of design process, early stages of system design process, major subsystem components, Basics of software engineering and system architecture	4
	<i>total duration</i>	30 mins.

Link of Sample Test Paper for Part B of Diagnostic Test is as follows:-

[http://nactech.nasscom.in/Web/Download.aspx?FileName=NAC-Tech%20Part%20B%20Sample%20\(Abridged\).pdf](http://nactech.nasscom.in/Web/Download.aspx?FileName=NAC-Tech%20Part%20B%20Sample%20(Abridged).pdf)

The Schedule of the Diagnostic Test through NASSCOM is as follows:-

Branch	Year	Date	Time	Venue
Information Technology	D4IT	23 rd December, 2019 (Monday)	9:00 am to 11:00 am	Top Floor PG Block
	D3IT Sec A	23 rd December, 2019 (Monday)	12:00 noon to 2:00 pm	
	D3IT Sec B	23 rd December, 2019 (Monday)	3:00pm to 5:00 pm	
	D2IT Sec A	24 th December, 2019 (Tuesday)	9:00 am to 11:00 am	
	D2IT Sec B	24 th December, 2019 (Tuesday)	12:00 noon to 2:00 pm	

- Note:**
1. It is **compulsory** for all the students to appear in the diagnostic test. Attendance will be marked during the course of the test.
 2. Students may bring their laptops for the test.

HOD (IT)