



Dr. Ambedkar College

Deeksha Bhoomi, Nagpur

RE-ACCREDITED WITH 'A+' GRADE BY NAAC CGPA: 3.35
RECOGNIZED AS COLLEGE WITH POTENTIAL FOR EXCELLENCE BY UGC



DEPARTMENT OF COMPUTER SCIENCE

Report on

SWAYAM/NPTEL Online Course Enrollment and Mentoring Activity

Academic Session 2026-27

Date: 24-08-2026

Course: *Fundamentals of Computing*

Platform: SWAYAM/NPTEL

Offering Institution: Banaras Hindu University

Course Instructor: Prof. Rakhi Garg

Duration: 8 Weeks

Credit Points: 2

Course Period: 24 August 2026 to 12 October 2026

Head of Department: Dr. Pankaj Nimbalkar

Course Coordinators: Prof. Winit Anandpawar, Prof. Rakesh Uikey, Prof. Vitthal Bondar

Faculty Mentors: Prof. Winit Anandpawar, Prof. Rakesh Uikey,

Report

The Department of Computer Science encouraged students to participate in a **SWAYAM/NPTEL Online Course** as directed by the College. The initiative was undertaken to promote online learning, strengthen students' fundamental knowledge, and provide them with an opportunity to learn through a structured course offered by a reputed higher educational institution.

Accordingly, **22 students** from the Department enrolled in the online course “**Fundamentals of Computing**”, offered by **Banaras Hindu University** through the SWAYAM platform. The course is an undergraduate-level, multidisciplinary elective course carrying **2 credit points** and is scheduled for a period of **8 weeks**, from **24 August 2026 to 12 October 2026**.

The course covers fundamental concepts of computing, including introduction and evolution of computers, classification of computers, input and output devices, primary and secondary memory, CPU, cache memory, memory hierarchy, software, binary number system, problem-solving techniques, algorithms, flowcharts, pseudocode, programming languages, operating systems, computer networks, Internet and web technologies, network protocols, IP addresses, DNS, World Wide Web, Internet applications, and network security.

The Department provided academic guidance and mentoring to the participating students to encourage their regular participation and completion of the course. **Prof. Winit Anandpawar, Prof. Rakesh Uikey** and **Prof. Vitthal Bondar** are the Course Coordinators, coordinated the activity, also **Prof. W. Anandpawar** and **Prof. R. Uikey** supported the students as faculty mentors. **Dr. Pankaj Nimbalkar, Head of the Department**, provided overall guidance and supervision for the activity.

The faculty mentors guided students regarding course enrolment, course requirements, weekly learning activities, assignments, and the certification examination. Students were encouraged to complete the course within the prescribed duration and make effective use of the online learning resources.

Objectives of the Activity

- To encourage students to participate in online and self-paced learning.
- To strengthen students' fundamental knowledge of Computer Science.
- To provide exposure to courses offered by reputed higher educational institutions.
- To encourage continuous learning beyond the regular classroom.
- To develop students' understanding of computing, programming, operating systems, networking, Internet technologies, and cybersecurity.
- To motivate students to pursue additional academic learning and certification opportunities.

Course Details

Particular	Details
Course Title	Fundamentals of Computing
Platform	SWAYAM/NPTEL
Offering Institution	Banaras Hindu University
Instructor	Prof. Rakhi Garg
Course Level	Undergraduate
Course Type	Elective
Category	Multidisciplinary
Duration	8 Weeks
Credit Points	2
Course Language	English
Start Date	24 August 2026
End Date	12 October 2026
Certification Examination	09 December 2026
Students Enrolled	22

Outcome

The initiative provided students with an opportunity to supplement their classroom learning through a structured online course. The participation of **22 students** reflects the Department's efforts to encourage students towards self-learning, digital learning platforms, and additional academic opportunities.

The faculty coordination and mentoring provided students with necessary guidance regarding course participation, learning activities, assignments, and certification requirements.

Proofs / Supporting Documents

Proof 1: SWAYAM/NPTEL Course Details

The screenshot shows the course details for 'Fundamentals of Computing' on the SWAYAM/NPTEL platform. The page includes a sidebar with navigation links and a main content area with a summary table.

Course Information:

- Course Name: Fundamentals of Computing
- By Prof. Rakhi Garg | Banaras Hindu University
- Learners enrolled: 1403

Summary Table:

Field	Value
Credit Points	2
Start Date	24 Aug 2026
End Date	12 Oct 2026
Enrollment Ends	15 Sep 2026
Exam Date	09 Dec 2026 IST
Exam Registration Ends	—
Translation Languages	English

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Figure 1: SWAYAM/NPTEL Online Course – “Fundamentals of Computing” course details.

Proof 2: College Course Enrolment Dashboard

The screenshot shows the SWAYAM/NPTEL dashboard for a college. It displays a list of active courses for DR. AMBEDKAR COLLEGE, DEEKSHABHOOMI, NAGPUR on this node (college). The dashboard includes a sidebar with navigation links and a main content area with a table of course details.

Dashboard Header:

- ar.bansod@gmail.com | Logout
- swayam

Active Courses for DR. AMBEDKAR COLLEGE, DEEKSHABHOOMI, NAGPUR on this node (college)

Total registrations: 389. Total members: 219

Search:

Show entries

Course ID	Course Name	NC Name	Students	Faculty
/ntr26_ed169	Fundamentals of Business Analytics	NITTTR	0	0
/ntr26_ed183	Fundamentals of Outcome-Based Curriculum in Engineering Education	NITTTR	0	0
/ini26_ce03	Fundamentals of Geology	INI	0	0
/ini26_cs04	Fundamentals of Computing	INI	27	2
/ini26_es10	Fundamentals of Environment	INI	0	0
/ini26_ge10	Fundamentals of Chemical Instrumentation	INI	0	0
/ini26_ge18	Fundamentals of Disaster Management and Sustainable Development	INI	0	0
/ini26_hs60	Fundamentals of Behavioural and Social Science Research	INI	0	0
/ini26_lb05	Fundamentals of Research (Major)	INI	0	0
/ini26_lb06	Fundamentals of Library & Information Science	INI	0	0

Showing 1 to 10 of 37 entries (filtered from 1,389 total entries)

Previous 2 3 4 Next

Application swayam-node2-production | version release-185-h01-01 | Powered by Course Builder 1.11.x as distributed under Apache License Version 2.0 | Page created on: 2025-09-04 05:52:14.237448

Figure 2: SWAYAM/NPTEL dashboard showing course enrollment and faculty mentors.

Proof 3: Faculty Mentor Details

The screenshot shows the Swayam NPTEL dashboard. On the left is a teal sidebar with navigation options: DASHBOARD, Courses, Fundamentals of Computing, Create, Settings, Publish, Manage (expanded), List of Members for your Local Chapter for this Course, Admin Settings, Help, Programming Assignments, Course Feedback, Course Staff, NC Courses, and Reports. The main content area is titled 'Manage > List of Members for your Local Chapter for this Course'. It includes a 'Go to All Courses' button, the course name 'Enrolled Members for course : Fundamentals of Computing and Local Chapter : DR. AMBEDKAR COLLEGE, DEEKSHABHOOMI, NAGPUR (college)', a search bar, and a 'Save' button. A table lists two enrolled members:

	Email	Name	College Roll No.	Year of Graduation	Profession	Department	Currently Enrolled	Mentor
1	rakeshuikey.dacn@gmail.com	RAKESH MAHADEO UIKEY		2022	faculty	Sciences	✓	☒
2	winit.anand@gmail.com	Winit Nikanth Anandpawar		2004	faculty	Sciences	✓	☒

At the bottom, a footer line reads: 'Application swayam-node2-production | version release-185-h01-01 | Powered by Course Builder 1.11.x as distributed under Apache License Version 2.0 | Page created on: 2026-09-04 05:57:05 116147'.

Figure 3: Faculty mentors associated with the SWAYAM/NPTEL course.

Proof 4: Course Content / Course Outline

The screenshot shows the Swayam NPTEL course page for 'Fundamentals of Computing'. The header includes the Swayam and INI logos, the course title, and a 'Go to the Course' button. The left sidebar contains course information, summary, course outline (selected), books and references, instructor bio, and course certificate. The main content area displays the 'Course outline' with eight weeks of topics:

- Week 1:** Introduction to Computers, Evolution of Computers, Classification of Computers, Input and Output Devices
- Week 2:** Primary and Secondary Memory, CPU, Cache Memory, Memory Hierarchy, Types of Software, Binary Number System
- Week 3:** Problem-Solving Techniques using Computers (Algorithms, Flowcharts, Pseudocodes), Introduction to Machine Language, Assembly Language, and High-Level Language
- Week 4:** Programming Languages, Introduction to Operating Systems, Main Functions of Operating Systems, Types of Operating Systems
- Week 5:** Types of Operating Systems, Introduction to Computer Networks, Transmission Media, Network Devices
- Week 6:** Network Topologies, Data Transmission Mode, Introduction to the Internet, Types of Web Browsers, and Search Engines and their applications
- Week 7:** Introduction to the OSI model, Network Protocols, IP addresses, Domain Name Systems, URL, DNS Server, Web Server, World Wide Web (WWW)
- Week 8:** Applications of Internet, Network Security, Computer Viruses, Worms, Trojans, Malware

At the bottom right, there is a 'Share:' section with icons for LinkedIn, Twitter, Facebook, WhatsApp, and a plus sign for more options.

Figure 4: Week-wise course outline of “Fundamentals of Computing”.

Proof 5: Student Enrollment List

SR NO	NAME OF STUDENT
1	DISHIKA DILIP GANAR
2	DURVESH PUNDALIK KAURATI
3	HARSH HEMANT WASNIK
4	HARSHAD LATESH BAHEKAR
5	HARSHITA NISHANT BHAIKARE
6	ISHIKA DIPAK PATIL
7	ISHWARI OMPRAKASH BARVE
8	JANHVI KAILAS DONGRE
9	KALYANI SUDDHODHAN HIREKHAN
10	MEGHA AJAY KATRE
11	PIYUSH PRAMOD GATLEWAR
12	PRASHAM SANJAY BODELE
13	PRASHANT LAXMAN BHARSAKLE
14	PRATHAMESH KIRTI KALE
15	REEMA SANJAY NEWARE
16	RENUKA RAJABHAU MAKODE
17	SALOMI SURSH GANVIR
18	SANCHIT RAVINDRA MANWAR
19	SHIVAM JAYPRAKASH YADAV
20	SHRUTI RAMNATH BAHEKAR
21	SUCHI RAJKUMAR MESHRAM
22	TEJASH AVDUT TELGOTE

Figure 5: List of students enrolled in the SWAYAM/NPTEL Online Course.

Conclusion

The Department of Computer Science successfully facilitated the enrollment of **22 students** in the **SWAYAM/NPTEL Online Course “Fundamentals of Computing”**. The activity was conducted under the guidance of **Dr. Pankaj Nimbalkar, Head of the Department**, with **Prof. Winit Anandpawar, Prof. Rakesh Uikey** and **Prof. Vitthal Bondar** as Course Coordinators and **Prof. Winit Anandpawar** along with **Prof. Rakesh Uikey** as Faculty Mentors.

The initiative supports the Department's commitment to promoting online learning, continuous skill development, self-learning, and academic enrichment among students.

Prepared by:

Prof. Winit Anandpawar, Prof. Rakesh Uikey

Coordinator

Department of Computer Science

Faculty Mentors:

Prof. Winit Anandpawar

Prof. Rakesh Uikey

Dr. Pankaj Nimbalkar

Head, Dept. of Computer Science

Dr. Ambedkar College, Nagpur