



UDHNA CITIZEN COMMERCE COLLEGE &  
S.P.B. COLLEGE OF BUSINESS ADMINISTRATION &  
SMT. DIWALIBEN HARIJIBHAI GONDALIA COLLEGE OF BCA & I.T.  
(Self-Financed College Affiliated To VNSGU, Surat)  
(Recognized college under Section 2 (f) of the UGC Act, 1956)  
(Managed By Udhna Academy Education Trust, Udhna, Surat)



President: Shri. Niranjanbhai M. Patel

Secretary: Shri. Kantilal S. Patel

**T.Y.B.C.A. (6<sup>th</sup> Semester)**

**A.Y.:2025-26**

**Subject: 603-01 - Fundamentals of Full Stack Web Development**

## **HOME ASSIGNMENT**

1. Explain the core concepts of Angular 17 used in building Single Page Applications. Discuss the role of Components, Services, and Routing, and explain how Standalone Components improve scalability and project organization.
2. Explain Node.js architecture in detail. Describe the event-driven, non-blocking I/O model of Node.js and explain how the Event Loop works. Also discuss the advantages of Node.js over traditional server-side technologies.
3. Describe the role of middleware in handling requests, responses, authentication, and error handling.

### **INSTRUCTIONS:**

- Assignment must be self-handwritten with blue ink ball point pen only.
- You can write assignment in assignment book or full-scape note book.
- Students have to submit assignment online using “Udhna College App”.
- Assignment submission date will be declared later on.

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