

## FACULTY OF ENGINEERING &amp; TECHNOLOGY

**U.V. PATEL COLLEGE OF ENGINEERING**  
**BACHELOR OF TECHNOLOGY IN INFORMATION TECHNOLOGY (B.TECH-IT)**

## Syllabus Details

Effective Year 2022-2023

|                       |             |                      |     |
|-----------------------|-------------|----------------------|-----|
| Program               | : B.TECH-IT | Semester             | : I |
| Total Course          | : 7         | Total Regular Course | : 6 |
| Total Elective Course | : 0         | Total Open Course    | : 0 |
| Total Audit Course    | : 1         |                      |     |

| # | CourseCode | Course Title                 | Teaching Scheme |       |       |                | Examination Scheme |          |          |          |       |
|---|------------|------------------------------|-----------------|-------|-------|----------------|--------------------|----------|----------|----------|-------|
|   |            |                              | CREDIT          |       |       | TOTAL<br>HOURS | TH                 |          | PR       |          | TOTAL |
|   |            |                              | TH              | PR/TW | TOTAL |                | Internal           | External | Internal | External |       |
| 1 | 2BS1101    | MATHEMATICS - I              | 4.00            | 0.00  | 4.00  | 4.00           | 0/40               | 0/60     | -        | -        | 100   |
| 2 | 2ES1101    | ENGINEERING GRAPHICS         | 3.00            | 1.00  | 4.00  | 5.00           | 0/40               | 0/60     | 0/30     | 0/20     | 150   |
| 3 | 2ES1103    | BASIC ELECTRICAL ENGINEERING | 3.00            | 1.00  | 4.00  | 5.00           | 0/40               | 0/60     | 0/30     | 0/20     | 150   |
| 4 | 2ES1109    | BASICS OF WEB TECHNOLOGY     | 2.00            | 2.00  | 4.00  | 6.00           | 0/40               | 0/60     | 0/30     | 0/20     | 150   |
| 5 | 2ES1110    | IT PERIPHERALS & TOOLS       | 0.00            | 2.00  | 2.00  | 4.00           | -                  | -        | 0/30     | 0/20     | 50    |
| 6 | 2HS1102    | SEMINAR                      | 0.00            | 1.00  | 1.00  | 2.00           | -                  | -        | 0/30     | 0/20     | 50    |
| 7 |            | AUDIT SUBJECT - 1            | 0.00            | 0.00  | 0.00  | 2.00           | -                  | -        | -        | -        | 0     |
|   |            |                              | 12.00           | 7.00  | 19.00 | 28.00          |                    |          |          |          | 650   |

## List of Audit Subjects

| Group Name | Course Code | Name of Course                                |
|------------|-------------|-----------------------------------------------|
| AUDIT      | 2AC1103     | ENVIRONMENTAL STUDIES AND DISASTER MANAGEMENT |

## Examination Grade Range &amp; Value

| Marks/Perc.<br>Range | Grade<br>(Regular) | Grade Point<br>(Regular) | Grade<br>(Remedial) | Grade Point<br>(Remedial) |
|----------------------|--------------------|--------------------------|---------------------|---------------------------|
| 90>=                 | A+                 | 10                       | A                   | 9                         |
| 80 To 89             | A                  | 9                        | B+                  | 8                         |
| 70 To 79             | B+                 | 8                        | B                   | 7                         |
| 60 To 69             | B                  | 7                        | C+                  | 6                         |
| 50 To 59             | C+                 | 6                        | C                   | 5                         |
| 40 To 49             | C                  | 5                        | C                   | 5                         |
| <40                  | F                  | 0                        | F                   | 0                         |

## FACULTY OF ENGINEERING &amp; TECHNOLOGY

## U.V. PATEL COLLEGE OF ENGINEERING

## BACHELOR OF TECHNOLOGY IN INFORMATION TECHNOLOGY (B.TECH-IT)

## Syllabus Details

Effective Year 2022-2023

Program : B.TECH-IT  
 Total Course : 7  
 Total Elective Course : 1  
 Total Audit Course : 0

Semester : II  
 Total Regular Course : 6  
 Total Open Course : 0

| # | CourseCode | Course Title                          | Teaching Scheme |       |       |             | Examination Scheme |          |          |          |       |
|---|------------|---------------------------------------|-----------------|-------|-------|-------------|--------------------|----------|----------|----------|-------|
|   |            |                                       | CREDIT          |       |       | TOTAL HOURS | TH                 |          | PR       |          | TOTAL |
|   |            |                                       | TH              | PR/TW | TOTAL |             | Internal           | External | Internal | External |       |
| 1 | 2BS1102    | MATHEMATICS - II                      | 4.00            | 0.00  | 4.00  | 4.00        | 0/40               | 0/60     | -        | -        | 100   |
| 2 | 2BS1103    | PHYSICS                               | 2.00            | 1.00  | 3.00  | 4.00        | 0/40               | 0/60     | 0/30     | 0/20     | 150   |
| 3 | 2HS1101    | COMMUNICATION SKILLS                  | 2.00            | 1.00  | 3.00  | 4.00        | 0/40               | 0/60     | 0/30     | 0/20     | 150   |
| 4 | 2ES1102    | WORKSHOP PRACTICE                     | 0.00            | 2.00  | 2.00  | 4.00        | -                  | -        | 0/30     | 0/20     | 50    |
| 5 | 2ES1104    | PROGRAMMING FOR PROBLEM SOLVING       | 2.00            | 2.00  | 4.00  | 6.00        | 0/40               | 0/60     | 0/30     | 0/20     | 150   |
| 6 | 2ES1111    | IT WORKSHOP                           | 0.00            | 2.00  | 2.00  | 4.00        | -                  | -        | 0/30     | 0/20     | 50    |
| 7 |            | ELECTIVE SUBJECT - 1 (UHV_Elective-I) | 2.00            | 0.00  | 2.00  | 2.00        | 0/100              | -        | -        | -        | 100   |
|   |            |                                       | 12.00           | 8.00  | 20.00 | 28.00       |                    |          |          |          | 750   |

## List of Elective Subjects

| Group Name     | Course Code | Name of Course                                                      |
|----------------|-------------|---------------------------------------------------------------------|
| UHV_ELECTIVE-I | UHV1IPDC1   | UNIVERSAL HUMAN VALUE (INTEGRATED PERSONALITY DEVELOPMENT COURSE-1) |
|                | UHV3DYSBG1  | UNIVERSAL HUMAN VALUE (DISCOVER YOURSELF THROUGH BHAGAVAD GITA-1)   |

## Examination Grade Range &amp; Value

| Marks/Perc. Range | Grade (Regular) | Grade Point (Regular) | Grade (Remedial) | Grade Point (Remedial) |
|-------------------|-----------------|-----------------------|------------------|------------------------|
| 90>=              | A+              | 10                    | A                | 9                      |
| 80 To 89          | A               | 9                     | B+               | 8                      |
| 70 To 79          | B+              | 8                     | B                | 7                      |
| 60 To 69          | B               | 7                     | C+               | 6                      |
| 50 To 59          | C+              | 6                     | C                | 5                      |
| 40 To 49          | C               | 5                     | C                | 5                      |
| <40               | F               | 0                     | F                | 0                      |

## FACULTY OF ENGINEERING &amp; TECHNOLOGY

## U.V. PATEL COLLEGE OF ENGINEERING

## BACHELOR OF TECHNOLOGY IN INFORMATION TECHNOLOGY (B.TECH-IT)

## Syllabus Details

Effective Year 2022-2023

Program : B.TECH-IT

Total Course : 7

Total Elective Course : 1

Total Audit Course : 1

Semester : III

Total Regular Course : 5

Total Open Course : 0

| # | CourseCode | Course Title                           | Teaching Scheme |       |       |                | Examination Scheme |          |          |          |       |
|---|------------|----------------------------------------|-----------------|-------|-------|----------------|--------------------|----------|----------|----------|-------|
|   |            |                                        | CREDIT          |       |       | TOTAL<br>HOURS | TH                 |          | PR       |          | TOTAL |
|   |            |                                        | TH              | PR/TW | TOTAL |                | Internal           | External | Internal | External |       |
| 1 | 2BS3102    | DISCRETE MATHEMATICS & PROBABILITY     | 4.00            | 0.00  | 4.00  | 4.00           | 0/40               | 0/60     | -        | -        | 100   |
| 2 | 2CEIT301   | DIGITAL ELECTRONICS                    | 3.00            | 1.00  | 4.00  | 5.00           | 0/40               | 0/60     | 0/30     | 0/20     | 150   |
| 3 | 2CEIT302   | OBJECT ORIENTED PROGRAMMING            | 3.00            | 2.00  | 5.00  | 7.00           | 0/40               | 0/60     | 0/30     | 0/20     | 150   |
| 4 | 2CEIT303   | DATABASE MANAGEMENT SYSTEM             | 3.00            | 1.00  | 4.00  | 5.00           | 0/40               | 0/60     | 0/30     | 0/20     | 150   |
| 5 | 2CEIT304   | DATA STRUCTURES                        | 3.00            | 2.00  | 5.00  | 7.00           | 0/40               | 0/60     | 0/30     | 0/20     | 150   |
| 6 |            | AUDIT SUBJECT - 1                      | 0.00            | 0.00  | 0.00  | 2.00           | -                  | -        | -        | -        | 0     |
| 7 |            | ELECTIVE SUBJECT - 1 (UHV_Elective-II) | 2.00            | 0.00  | 2.00  | 2.00           | 0/100              | -        | -        | -        | 100   |
|   |            |                                        | 18.00           | 6.00  | 24.00 | 32.00          |                    |          |          |          | 800   |

## List of Elective Subjects

| Group Name      | Course Code | Name of Course                                                      |
|-----------------|-------------|---------------------------------------------------------------------|
| UHV_ELECTIVE-II | UHV2IPDC2   | UNIVERSAL HUMAN VALUE (INTEGRATED PERSONALITY DEVELOPMENT COURSE-2) |
|                 | UHV4DYSBG2  | UNIVERSAL HUMAN VALUE (DISCOVER YOURSELF THROUGH BHAGAVAD GITA-2)   |

## List of Audit Subjects

| Group Name | Course Code | Name of Course |
|------------|-------------|----------------|
| AUDIT      | 2AC301      | AUDIT COURSE   |

## Examination Grade Range &amp; Value

| Marks/Perc.<br>Range | Grade<br>(Regular) | Grade Point<br>(Regular) | Grade<br>(Remedial) | Grade Point<br>(Remedial) |
|----------------------|--------------------|--------------------------|---------------------|---------------------------|
| 90>=                 | A+                 | 10                       | A                   | 9                         |
| 80 To 89             | A                  | 9                        | B+                  | 8                         |
| 70 To 79             | B+                 | 8                        | B                   | 7                         |
| 60 To 69             | B                  | 7                        | C+                  | 6                         |
| 50 To 59             | C+                 | 6                        | C                   | 5                         |
| 40 To 49             | C                  | 5                        | C                   | 5                         |
| <40                  | F                  | 0                        | F                   | 0                         |

## FACULTY OF ENGINEERING &amp; TECHNOLOGY

## U.V. PATEL COLLEGE OF ENGINEERING

## BACHELOR OF TECHNOLOGY IN INFORMATION TECHNOLOGY (B.TECH-IT)

## Syllabus Details

Effective Year 2022-2023

Program : B.TECH-IT  
 Total Course : 6  
 Total Elective Course : 0  
 Total Audit Course : 0

Semester : IV  
 Total Regular Course : 6  
 Total Open Course : 0

| # | CourseCode | Course Title                                                  | Teaching Scheme |       |       |             | Examination Scheme |          |          |          |       |
|---|------------|---------------------------------------------------------------|-----------------|-------|-------|-------------|--------------------|----------|----------|----------|-------|
|   |            |                                                               | CREDIT          |       |       | TOTAL HOURS | TH                 |          | PR       |          | TOTAL |
|   |            |                                                               | TH              | PR/TW | TOTAL |             | Internal           | External | Internal | External |       |
| 1 | 2BS4101    | MATHEMATICS FOR COMPUTER ENGINEERING & INFORMATION TECHNOLOGY | 4.00            | 0.00  | 4.00  | 4.00        | 0/40               | 0/60     | -        | -        | 100   |
| 2 | 2CEIT401   | OPERATING SYSTEMS                                             | 3.00            | 1.00  | 4.00  | 5.00        | 0/40               | 0/60     | 0/30     | 0/20     | 150   |
| 3 | 2CEIT402   | DESIGN AND ANALYSIS OF ALGORITHMS                             | 3.00            | 1.00  | 4.00  | 5.00        | 0/40               | 0/60     | 0/30     | 0/20     | 150   |
| 4 | 2CEIT403   | APPLICATION DEVELOPMENT TOOLS                                 | 2.00            | 2.00  | 4.00  | 6.00        | 0/40               | 0/60     | 0/30     | 0/20     | 150   |
| 5 | 2CEIT404   | PROGRAMMING WITH PYTHON                                       | 3.00            | 1.00  | 4.00  | 5.00        | 0/40               | 0/60     | 0/30     | 0/20     | 150   |
| 6 | 2CEIT405   | NOSQL DATABASE SYSTEMS                                        | 0.00            | 1.00  | 1.00  | 2.00        | -                  | -        | 0/30     | 0/20     | 50    |
|   |            |                                                               | 15.00           | 6.00  | 21.00 | 27.00       |                    |          |          |          | 750   |

## Examination Grade Range &amp; Value

| Marks/Perc. Range | Grade (Regular) | Grade Point (Regular) | Grade (Remedial) | Grade Point (Remedial) |
|-------------------|-----------------|-----------------------|------------------|------------------------|
| 90>=              | A+              | 10                    | A                | 9                      |
| 80 To 89          | A               | 9                     | B+               | 8                      |
| 70 To 79          | B+              | 8                     | B                | 7                      |
| 60 To 69          | B               | 7                     | C+               | 6                      |
| 50 To 59          | C+              | 6                     | C                | 5                      |
| 40 To 49          | C               | 5                     | C                | 5                      |
| <40               | F               | 0                     | F                | 0                      |

## FACULTY OF ENGINEERING &amp; TECHNOLOGY

U.V. PATEL COLLEGE OF ENGINEERING  
BACHELOR OF TECHNOLOGY IN INFORMATION TECHNOLOGY (B.TECH-IT)

## Syllabus Details

Effective Year 2022-2023

|                       |             |                      |     |
|-----------------------|-------------|----------------------|-----|
| Program               | : B.TECH-IT | Semester             | : V |
| Total Course          | : 7         | Total Regular Course | : 5 |
| Total Elective Course | : 2         | Total Open Course    | : 0 |
| Total Audit Course    | : 0         |                      |     |

| # | CourseCode | Course Title                         | Teaching Scheme |       |       |             | Examination Scheme |          |          |          |       |
|---|------------|--------------------------------------|-----------------|-------|-------|-------------|--------------------|----------|----------|----------|-------|
|   |            |                                      | CREDIT          |       |       | TOTAL HOURS | TH                 |          | PR       |          | TOTAL |
|   |            |                                      | TH              | PR/TW | TOTAL |             | Internal           | External | Internal | External |       |
| 1 | 2CEIT501   | COMPUTER ARCHITECTURE & ORGANIZATION | 3.00            | 1.00  | 4.00  | 5.00        | 0/40               | 0/60     | 0/30     | 0/20     | 150   |
| 2 | 2CEIT502   | SOFTWARE ENGINEERING                 | 3.00            | 1.00  | 4.00  | 5.00        | 0/40               | 0/60     | 0/30     | 0/20     | 150   |
| 3 | 2CEIT503   | COMPUTER NETWORKS                    | 4.00            | 1.00  | 5.00  | 6.00        | 0/40               | 0/60     | 0/30     | 0/20     | 150   |
| 4 | 2CEIT504   | CAPSTONE PROJECT-I                   | 0.00            | 1.00  | 1.00  | 2.00        | -                  | -        | 0/30     | 0/20     | 50    |
| 5 |            | ELECTIVE SUBJECT - 1 (ELECTIVE-I)    | 3.00            | 1.00  | 4.00  | 5.00        | 0/40               | 0/60     | 0/30     | 0/20     | 150   |
| 6 |            | ELECTIVE SUBJECT - 1 (ELECTIVE-II)   | 2.00            | 2.00  | 4.00  | 6.00        | 0/40               | 0/60     | 0/30     | 0/20     | 150   |
| 7 | 2HS5101    | APTITUDE SKILL BUILDING-I            | 0.00            | 1.00  | 1.00  | 2.00        | -                  | -        | 0/30     | 0/20     | 50    |
|   |            |                                      | 15.00           | 8.00  | 23.00 | 31.00       |                    |          |          |          | 850   |

## List of Elective Subjects

| Group Name  | Course Code | Name of Course                    |
|-------------|-------------|-----------------------------------|
| ELECTIVE-I  | 2CEIT5PE1   | ADVANCED JAVA                     |
|             | 2CEIT5PE2   | COMPUTER GRAPHICS & VISUALIZATION |
|             | 2CEIT5PE3   | QUANTUM COMPUTING                 |
|             | 2CEIT5PE4   | SOFTWARE PACKAGES                 |
| ELECTIVE-II | 2CEIT5PE5   | MOBILE APPLICATION DEVELOPMENT    |
|             | 2CEIT5PE6   | HUMAN COMPUTER INTERACTION        |
|             | 2CEIT5PE7   | INNOVATION & ENTREPRENEURSHIP     |
|             | 2CEIT5PE8   | ADVANCED PROGRAMMING WITH .NET    |

## Examination Grade Range &amp; Value

| Marks/Perc. Range | Grade (Regular) | Grade Point (Regular) | Grade (Remedial) | Grade Point (Remedial) |
|-------------------|-----------------|-----------------------|------------------|------------------------|
| 90>=              | A+              | 10                    | A                | 9                      |
| 80 To 89          | A               | 9                     | B+               | 8                      |
| 70 To 79          | B+              | 8                     | B                | 7                      |
| 60 To 69          | B               | 7                     | C+               | 6                      |
| 50 To 59          | C+              | 6                     | C                | 5                      |
| 40 To 49          | C               | 5                     | C                | 5                      |
| <40               | F               | 0                     | F                | 0                      |

## FACULTY OF ENGINEERING &amp; TECHNOLOGY

## U.V. PATEL COLLEGE OF ENGINEERING

## BACHELOR OF TECHNOLOGY IN INFORMATION TECHNOLOGY (B.TECH-IT)

## Syllabus Details

Effective Year 2022-2023

Program : B.TECH-IT

Total Course : 8

Total Elective Course : 2

Total Audit Course : 0

Semester : VI

Total Regular Course : 6

Total Open Course : 0

| # | CourseCode | Course Title                        | Teaching Scheme |       |       |                | Examination Scheme |          |          |          |       |
|---|------------|-------------------------------------|-----------------|-------|-------|----------------|--------------------|----------|----------|----------|-------|
|   |            |                                     | CREDIT          |       |       | TOTAL<br>HOURS | TH                 |          | PR       |          | TOTAL |
|   |            |                                     | TH              | PR/TW | TOTAL |                | Internal           | External | Internal | External |       |
| 1 | 2CEIT601   | THEORY OF COMPUTATION               | 3.00            | 1.00  | 4.00  | 5.00           | 0/40               | 0/60     | 0/30     | 0/20     | 150   |
| 2 | 2CEIT602   | ARTIFICIAL INTELLIGENCE             | 3.00            | 1.00  | 4.00  | 5.00           | 0/40               | 0/60     | 0/30     | 0/20     | 150   |
| 3 | 2CEIT603   | CLOUD COMPUTING                     | 3.00            | 1.00  | 4.00  | 5.00           | 0/40               | 0/60     | 0/30     | 0/20     | 150   |
| 4 | 2CEIT604   | USER EXPERIENCE DESIGN              | 0.00            | 1.00  | 1.00  | 2.00           | -                  | -        | 0/30     | 0/20     | 50    |
| 5 | 2CEIT605   | CAPSTONE PROJECT-II                 | 0.00            | 1.00  | 1.00  | 2.00           | -                  | -        | 0/30     | 0/20     | 50    |
| 6 |            | ELECTIVE SUBJECT - 1 (ELECTIVE-III) | 3.00            | 1.00  | 4.00  | 5.00           | 0/40               | 0/60     | 0/30     | 0/20     | 150   |
| 7 |            | ELECTIVE SUBJECT - 1 (ELECTIVE-IV)  | 3.00            | 1.00  | 4.00  | 5.00           | 0/40               | 0/60     | 0/30     | 0/20     | 150   |
| 8 | 2HS6101    | APTITUDE SKILL BUILDING-II          | 0.00            | 1.00  | 1.00  | 2.00           | -                  | -        | 0/30     | 0/20     | 50    |
|   |            |                                     | 15.00           | 8.00  | 23.00 | 31.00          |                    |          |          |          | 900   |

## List of Elective Subjects

| Group Name   | Course Code | Name of Course                     |
|--------------|-------------|------------------------------------|
| ELECTIVE-III | 2CEIT6PE1   | WEB TECHNOLOGY                     |
|              | 2CEIT6PE2   | SOFTWARE VALIDATION & TESTING      |
|              | 2CEIT6PE3   | CRYPTOGRAPHY AND NETWORK SECURITY  |
|              | 2CEIT6PE4   | DATA SCIENCES AND MACHINE LEARNING |
|              | 2CEIT6PE5   | GAME DESIGN & DEVELOPMENT          |
| ELECTIVE-IV  | 2CEIT6PE6   | ROBOTICS                           |
|              | 2CEIT6PE7   | ETHICAL HACKING                    |
|              | 2CEIT6PE8   | IT INFRASTRUCTURE & MANAGEMENT     |
|              | 2CEIT6PE9   | INTERNET OF THINGS                 |

## Examination Grade Range &amp; Value

| Marks/Perc.<br>Range | Grade<br>(Regular) | Grade Point<br>(Regular) | Grade<br>(Remedial) | Grade Point<br>(Remedial) |
|----------------------|--------------------|--------------------------|---------------------|---------------------------|
| 90>=                 | A+                 | 10                       | A                   | 9                         |
| 80 To 89             | A                  | 9                        | B+                  | 8                         |
| 70 To 79             | B+                 | 8                        | B                   | 7                         |
| 60 To 69             | B                  | 7                        | C+                  | 6                         |
| 50 To 59             | C+                 | 6                        | C                   | 5                         |
| 40 To 49             | C                  | 5                        | C                   | 5                         |
| <40                  | F                  | 0                        | F                   | 0                         |

## FACULTY OF ENGINEERING &amp; TECHNOLOGY

## U.V. PATEL COLLEGE OF ENGINEERING

## BACHELOR OF TECHNOLOGY IN INFORMATION TECHNOLOGY (B.TECH-IT)

## Syllabus Details

Effective Year 2022-2023

Program : B.TECH-IT  
 Total Course : 6  
 Total Elective Course : 2  
 Total Audit Course : 0

Semester : VII  
 Total Regular Course : 4  
 Total Open Course : 0

| # | CourseCode | Course Title                       | Teaching Scheme |       |       |                | Examination Scheme |          |          |          |       |
|---|------------|------------------------------------|-----------------|-------|-------|----------------|--------------------|----------|----------|----------|-------|
|   |            |                                    | CREDIT          |       |       | TOTAL<br>HOURS | TH                 |          | PR       |          | TOTAL |
|   |            |                                    | TH              | PR/TW | TOTAL |                | Internal           | External | Internal | External |       |
| 1 | 2CEIT701   | COMPILER DESIGN                    | 3.00            | 1.00  | 4.00  | 5.00           | 0/40               | 0/60     | 0/30     | 0/20     | 150   |
| 2 | 2CEIT702   | BIG DATA ANALYTICS                 | 3.00            | 1.00  | 4.00  | 5.00           | 0/40               | 0/60     | 0/30     | 0/20     | 150   |
| 3 | 2CEIT703   | CAPSTONE PROJECT-III               | 0.00            | 6.00  | 6.00  | 12.00          | -                  | -        | 0/60     | 0/40     | 100   |
| 4 |            | ELECTIVE SUBJECT - 1 (ELECTIVE-V)  | 3.00            | 1.00  | 4.00  | 5.00           | 0/40               | 0/60     | 0/30     | 0/20     | 150   |
| 5 |            | ELECTIVE SUBJECT - 1 (ELECTIVE-VI) | 3.00            | 1.00  | 4.00  | 5.00           | 0/40               | 0/60     | 0/30     | 0/20     | 150   |
| 6 | 2CEIT704   | SOFT SKILLS                        | 0.00            | 1.00  | 1.00  | 2.00           | -                  | -        | 0/30     | 0/20     | 50    |
|   |            |                                    | 12.00           | 11.00 | 23.00 | 34.00          |                    |          |          |          | 750   |

## List of Elective Subjects

| Group Name  | Course Code | Name of Course                   |
|-------------|-------------|----------------------------------|
| ELECTIVE-V  | 2CEIT78PE1  | DEEP LEARNING                    |
|             | 2CEIT78PE2  | BLOCKCHAIN TECHNOLOGIES          |
|             | 2CEIT78PE3  | FUNDAMENTALS OF IMAGE PROCESSING |
|             | 2CEIT78PE4  | MOBILE COMPUTING                 |
|             | 2CEIT78PE5  | SEARCH ENGINE OPTIMIZATION       |
|             | 2CEIT78PE6  | VIRTUAL REALITY                  |
| ELECTIVE-VI | 2CEIT78PE7  | NATURAL LANGUAGE PROCESSING      |
|             | 2CEIT78PE8  | FORENSICS & CYBER LAW            |
|             | 2CEIT78PE9  | ADVANCED ALGORITHMS              |
|             | 2CEIT78PE10 | FOG COMPUTING                    |
|             | 2CEIT78PE11 | FAULT TOLERANT SYSTEMS           |
|             | 2CEIT78PE12 | HIGH PERFORMANCE COMPUTING       |
|             | 2CEIT78PE13 | COMPUTER VISION                  |

## Examination Grade Range &amp; Value

| <b>Marks/Perc.<br/>Range</b> | <b>Grade<br/>(Regular)</b> | <b>Grade Point<br/>(Regular)</b> | <b>Grade<br/>(Remedial)</b> | <b>Grade Point<br/>(Remedial)</b> |
|------------------------------|----------------------------|----------------------------------|-----------------------------|-----------------------------------|
| 90>=                         | A+                         | 10                               | A                           | 9                                 |
| 80 To 89                     | A                          | 9                                | B+                          | 8                                 |
| 70 To 79                     | B+                         | 8                                | B                           | 7                                 |
| 60 To 69                     | B                          | 7                                | C+                          | 6                                 |
| 50 To 59                     | C+                         | 6                                | C                           | 5                                 |
| 40 To 49                     | C                          | 5                                | C                           | 5                                 |
| <40                          | F                          | 0                                | F                           | 0                                 |



## FACULTY OF ENGINEERING &amp; TECHNOLOGY

## U.V. PATEL COLLEGE OF ENGINEERING

## BACHELOR OF TECHNOLOGY IN INFORMATION TECHNOLOGY (B.TECH-IT)

## Syllabus Details

Effective Year 2022-2023

Program : B.TECH-IT  
 Total Course : 1  
 Total Elective Course : 0  
 Total Audit Course : 0

Semester : VIII  
 Total Regular Course : 1  
 Total Open Course : 0

| # | CourseCode | Course Title        | Teaching Scheme |       |       |                | Examination Scheme |          |          |          |       |
|---|------------|---------------------|-----------------|-------|-------|----------------|--------------------|----------|----------|----------|-------|
|   |            |                     | CREDIT          |       |       | TOTAL<br>HOURS | TH                 |          | PR       |          | TOTAL |
|   |            |                     | TH              | PR/TW | TOTAL |                | Internal           | External | Internal | External |       |
| 1 | 2CEIT801   | INDUSTRIAL TRAINING | 0.00            | 20.00 | 20.00 | 40.00          | -                  | -        | 0/200    | 0/200    | 400   |
|   |            |                     | 0.00            | 20.00 | 20.00 | 40.00          |                    |          |          |          | 400   |

## Examination Grade Range &amp; Value

| Marks/Perc.<br>Range | Grade<br>(Regular) | Grade Point<br>(Regular) | Grade<br>(Remedial) | Grade Point<br>(Remedial) |
|----------------------|--------------------|--------------------------|---------------------|---------------------------|
| 90>=                 | A+                 | 10                       | A                   | 9                         |
| 80 To 89             | A                  | 9                        | B+                  | 8                         |
| 70 To 79             | B+                 | 8                        | B                   | 7                         |
| 60 To 69             | B                  | 7                        | C+                  | 6                         |
| 50 To 59             | C+                 | 6                        | C                   | 5                         |
| 40 To 49             | C                  | 5                        | C                   | 5                         |
| <40                  | F                  | 0                        | F                   | 0                         |