**Average percentage of courses having focus on employability/ entrepreneurship/ skill development during the last five year**

<p style="color:red">**2017 REGULATION**</p>

<p style="color:red">**CONTENT WITH DIRECT BEARING ON EMPLOYABILITY**</p>

| Course Code | Prerequisite Course Code | Course Title<br>**Department of CSE&IT** | Category | C | L | T/SLr | P/R | Ty/ Lb/ ETL/ EVL |
|---|---|---|---|---|---|---|---|---|
| BIT17TS1 | NIL | **TECHNICAL SKILL I (EVALUATION)** | TS | 1 | 0 | 0/0 | 0/0 | EVL |

**OBJECTIVES**

➢ To make the students expert in domain specific knowledge.
➢ To develop professionals with idealistic, practical and moral values.
➢ To facilitate the students with emerging technology.

From the list of skill development courses declared by the department, the students are expected to acquire the skill and get certified. This will be evaluated at the end of the semester by the faculty.

| Course Code | Prerequisite Course Code | Course Title<br>**Department of CSE&IT** | Category | C | L | T/SLr | P/R | Ty/ Lb/ ETL/ EVL |
|---|---|---|---|---|---|---|---|---|
| BIT17L05 | NIL | **INPLANT TRAINING (EVALUATION)\*+** | IPT | 1 | 0 | 0/0 | 0/0 | EVL |

**OBJECTIVE :**

➢ The main objective of the In-plant training is to provide a short-term work experience in an Industry/ Company/ Organization

| Course Code | Prerequisite Course Code | Course Title **Department of CSE&IT** | Category | C | L | T/SLr | P/R | Ty/ Lb/ ETL/ EVL |
|---|---|---|---|---|---|---|---|---|
| BIT17L07 | NIL | **MINI PROJECT (EVALUATION)** | MP | 1 | 0 | 0/0 | 0/0 | EVL |

**OBJECTIVE:**
  ➢ The students are expected to take up an application project for any real life scenario.

Having acquired the core competency in the Computer science domain over the last 6 semesters, the students are expected to take up an application project for any real life scenario and provide a solution for the same. The implementation is expected to be based on a 3 tier architecture design.

For the award of the 1 credit the students are expected to demonstrate the project. The evaluation for this credit will be carried out in the 7th Semester.

| Course Code | Prerequisite Course Code | Course Title **Department of CSE&IT** | Category | C | L | T/SLr | P/R | Ty/ Lb/ ETL/ EVL |
|---|---|---|---|---|---|---|---|---|
| BIT17TS3 | NIL | **TECHNICAL SKILL III (EVALUATION)** | TS | 1 | 0 | 0/0 | 3/0 | EVL |

**OBJECTIVES**
- ➢ To make the students expert in domain specific knowledge.
- ➢  To develop professionals with idealistic, practical and moral values.
- ➢ To facilitate the students with emerging technology.

From the list of skill development courses declared by the department, the students are expected to acquire the skill and get certified. This will be evaluated at the end of the semester by the faculty

| Course Code | Prerequisite Course Code | Course Title | Category | C | L | T/SLr | P/R | Ty/ Lb/ ETL/ EVL |
|---|---|---|---|---|---|---|---|---|
| BIT17L10 | NIL | **PROJECT PHASE – 1** | PP1 | 2 | 0 | 0 | 6/0 | Lb |

**OBJECTIVES:**
- ➢ Able to do main projects in their respective domain

 B.Tech CSE Project carries 12 credits of which , Phase I carries 2 credit. In Phase I ,Students are expected to
        (i) Identify a Problem.
         (ii) Have the feasibility explored.
         (iii) Freeze the Requirement specification (both user and system).
        (iv) Construct the architectural model (as many as required).
        (v) Design the solution.
        (vi) If possible publish the Feasibilty study as a survey paper

| Course Code | Prerequisite Course Code | Course Title | Category | C | L | T/SLr | P/R | Ty/ Lb/ ETL/ EVL |
|---|---|---|---|---|---|---|---|---|
| BIT17L11 | BIT17L10 | **PROJECT (PHASE – II)** | PP2 | 10 | 0 | 0 | 20/0 | Lb |

**OBJCETIVES:**

➢ Able to do main projects in their respective domain

Students are expected to carry out the following :

    (i)      Implement the Design using suitable technologies.

    (ii)     Generate the test cases.

    (iii)    Demonstrate the solution with suitable user interface.

    (iv)    Prepare a project report consolidating the phase-I and II activities.

# 2018 - REGULATION

# CONTENT WITH DIRECT BEARING ON EMPLOYABILITY

**BIT18L08      PROJECT PHASE -II**

**OBJCETIVES:**

       The objective of the Main Project is to culminate the academic study and provide an opportunity to explore a problem or issue , address through focused and applied research under the direction of a faculty mentor. The project demonstrates the student's ability to synthesize and apply the knowledge and skills acquired to real-world issues and problems. This project affirms the students to think critically and creatively, find an optimal solution, make ethical decisions and to present effectively.

       Students are expected to carry out the following :
- (i)      Implement the Design using suitable technologies.
- (ii)     Generate the test cases.
- (iii)    Prepare a project report consolidating the phase-I and II activities.
- (iv)    Demonstrate the solution with suitable user interface.

**BIT18LO7  PROJECT PHASE -I**

**OBJECTIVES:**

- The objective of the Main Project is to culminate the academic study and provide an opportunity to explore a problem or issue , address through focused and applied research under the direction of a faculty mentor. The project demonstrates the student's ability to synthesize and apply the knowledge and skills acquired to real-world issues and problems. This project affirms the students to think critically and creatively, find an optimal solution, make ethical decisions and to present effectively.

B.Tech CSE Project carries 12 credits of which , Phase I carries 2 credit. In Phase I ,Students are expected to
- (i) Identify a Problem.
- (ii) Have the feasibility explored.
- (iii) Freeze the Requirement specification (both user and system).
- (iv) Construct the architectural model (as many as required).
- (v) Design the solution.
- (vi) If possible publish the Feasibilty study as a survey paper

**BIT18TS3  TECHNICAL SKILL III**

**OBJECTIVES:**

- To make the students expert in domain specific knowledge.
- To develop professionals with idealistic, practical and moral values.
- To facilitate the students with emerging technology.

From the list of skill development courses declared by the department, the students are expected to acquire the skill and get certified. This will be evaluated at the end of the semester by the faculty.

**BIT18L04  MINI PROJECT/INPLANT TRAINING/INTERNSHIP**

**OBJECTIVE :**

- The main objective of the In-plant training is to provide a short-term work experience in an Industry/ Company/ Organization

**BIT18TS3   TECHNICAL SKILL III (EVALUATION)**

**OBJECTIVES:**
- To make the students expert in domain specific knowledge.
- To develop professionals with idealistic, practical and moral values.
- To facilitate the students with emerging technology.

From the list of skill development courses declared by the department, the students are expected to acquire the skill and get certified. This will be evaluated at the end of the semester by the faculty.

\

**2017 REGULATION**

# SKILL DEVELOPMENT

| Course Code | Prerequisite Course Code | Course Title | Category | C | L | T/SLr | P/R | Ty/ Lb/ ETL/ EVL |
|---|---|---|---|---|---|---|---|---|
| | | **Department of CSE&IT** | | | | | | |
| **BSK17ET1** | NIL | **SOFT SKILLS I** | SS | 2 | 1 | 0/1 | 1/0 | ETL |

**OBJECTIVES**

1) To bring behavioural patterns of students.
2) To train them for corporate culture.
3) To create self awareness.
4) To build confidence.
5) To train the students for facing the interviews and develop interpersonal relationship.

**UNIT 1**

Creation of awareness of top companies / improving skill set matrix / Development of positive frame of mind / Creation of self awareness.

**UNIT 2**

Group discussions / Do's and don'ts – handling group discussions / What evaluators look for interpersonal relationships / Preparation of Curriculum Vitae / Resume.

**UNIT 3**

Interview – awareness of facing questions – Do's and don'ts of personal interview / group interview, enabling students to prepare for different proce3dures such as HR interviews and Technical Interviews / self introductions.

**UNIT 4**

Verbal aptitude, Reading comprehension / narration / presentation / Mock Interviews.

**UNIT 5**

Practical session on Group Discussion and written tests on vocabulary and reading comprehension.

| BIT17TS2 | BIT17TS1 | **TECHNICAL SKILL II (EVALUATION)\*** | TS | 1 | 0 | 0/0 | 0/0 | EVL |
|----------|----------|----------------------------------------|----|---|---|-----|-----|-----|

**OBJECTIVES**
- ➤ To make the students expert in domain specific knowledge.
- ➤ To develop professionals with idealistic, practical and moral values.
- ➤ To facilitate the students with emerging technology.

From the list of skill development courses declared by the department, the students are expected to acquire the skill and get certified. This will be evaluated at the end of the semester by the faculty

| Course Code | Prerequisite Course Code | Course Title **Department of CSE&IT** | Category | C | L | T/SLr | P/R | Ty/ Lb/ ETL/ EVL |
|---|---|---|---|---|---|---|---|---|
| **BSK17ET2** | BSK17ET1 | **SOFT SKILLS  II** | SS | 2 | 1 | 0/1 | 1/0 | ETL |

**OBJECTIVES**

1) To bring behavioural patterns of students.
2) To train them for corporate culture.
3) To create self awareness.
4) To build confidence.
5) To train the students for facing the interviews and develop interpersonal relationship.

**UNIT 1**
Reasoning – logical, diagrammatic, abstract.

**UNIT 2**
Spatial ability / Logical ability / Probability.

**UNIT 3**
Verbal Critical Reasoning / Verbal Comprehension.

**UNIT 4**
Practice tests.

**UNIT 5**
Top Ten Websites for online Aptitude Training.

1) https://www.elitmus.com/
2) https://www.IPAT.com/
3) https://www.nactech.nasscom.com/
4) https://www.myamcat.com/
5) https://indiabix.com/
6) https://www.cocubes.com/
7) https://www.aptitude-test.com/
8) https://www.practiceaptitudetests.com/
9) https://www.wiziq.com/
10) https://www.pskills.com/

# 2018 REGULATION

# SKILL DEVELOPMENT

| Subject Code | Subject Name | Ty/ Lb/ ETL | L | T/ S.Lr | P/R | C |
|---|---|---|---|---|---|---|
| BEN18SK1 | SOFT SKILL I | ETL | 0 | 0/0 | 3/0 | 1 |

**OBJECTIVES:**
- To create awareness in students, various top companies helping them improve their skill set matrix, leading to develop a positive frame of mind.
- To help students be aware of various techniques of candidate recruitment and help them prepare CV's and resume.
- To help student how to face various types of interview, preparing for HR, technical interviews.
- To help students improve their verbal reading, narration and presentation skills by performs various mock sessions.

**UNIT I**          **6 Hrs**

Creation of awareness of top companies / improving skill set matrix / Development of positive frame of mind / Creation of self-awareness.

**UNIT II**          **6 Hrs**

Group discussions / Do's and don'ts – handling group discussions / what evaluators look for interpersonal relationships / Preparation of Curriculum Vitae / Resume.

**UNIT III**          **6 Hrs**

Interview – awareness of facing questions – Do's and don'ts of personal interview / group interview, enabling students to prepare for different proce3dures such as HR interviews and Technical Interviews / self-introductions.

**UNIT IV**          **6 Hrs**

Verbal aptitude, Reading comprehension / narration / presentation / Mock Interviews.

**UNIT V**          **6 Hrs**

Practical session on Group Discussion and written tests on vocabulary and reading comprehension

**Practical component P : Include case studies / application scenarios**

**Research component R : Future trends / research areas / Comparative Analysis**

**Total Hours: 30**

**OBJECTIVES:**

| Subject Code | Subject Name | Ty/ Lb/ ETL | L | T/ S.Lr | P/R | C |
|---|---|---|---|---|---|---|
| **BIT18TS2** | **TECHNICAL SKILL II (EVALUATION)** | Lb | 0 | 0/0 | 3/0 | 1 |

- To make the students expert in domain specific knowledge.
- To develop professionals with idealistic, practical and moral values.
- To facilitate the students with emerging technology.

From the list of skill development courses declared by the department, the students are expected to acquire the skill and get certified. This will be evaluated at the end of the semester by the faculty.

| Subject Code | Subject Name | Ty/ Lb/ ETL | L | T/ S.Lr | P/R | C |
|---|---|---|---|---|---|---|
| BEN18SK2 | SOFT SKILL - II | ETL | 0 | 0/0 | 3/0 | 1 |

**OBJECTIVES:**
- To bring behavioural patterns of students.
- To train them for corporate culture.
- To create self awareness.
- To build confidence.
- To train the students for facing the interviews and develop interpersonal relationship.

**UNIT I          LOGICAL REASONING I**

Logical Statements – Arguments – Assumptions – Courses of Action.

**UNIT II          LOGICAL REASONING II**

Logical conclusions – Deriving conclusions from passages – Theme detection.

**UNIT III          ARITHMETICAL REASONING I**

Number system – H.C.F & L.C.M – Problem on ages – Percentage – Profit & Loss – Ratio & Proportion – Partnership.

**UNIT IV          ARITHMETICAL REASONING II**

Time & Work – Time & Distance – Clocks – Permutations & Combinations – Heights & Distances – Odd man out and Series.

**UNIT V          DATA INTERPRETATION**

Tabulation – Bar graphs – Pie graphs – Line graphs.

**REFERENCE BOOK:**

1. *R.S.Agarwal, A modern approach to Logical Reasoning, S.Chand & Co., (2017).*

2. *R.S.Agarwal, A modern approach to Verbal and Non verbal Reasoning, S.Chand & Co., (2017).*

3. *R.S.Agarwal, Quantitative Aptitude for Competitive Examinations, S.Chand & Co., (2017).*

4. *A.K.Gupta, Logical and Analytical Reasoning, Ramesh Publishing House, (2014).*

*5. B.S.Sijwali, Indu sijwali, A new approach to Reasoning (Verbal and Non verbal), Arihant Publishers, (2014).*

| Subject Code: **BIT18L04** | Subject Name : **MINI PROJECT / INPLANT TRAINING / INTERNSHIP** | Ty/ Lb/ ET L | L | T/ S.L r | P/R | C |
|---|---|---|---|---|---|---|
| | Prerequisite : NIL | Lb | 0 | 0/0 | 3/0 | 1 |

L : Lecture T : Tutorial    S.Lr : Supervised Learning  P : Project  R : Research C: Credits
T/L/ETL : Theory/Lab/Embedded Theory and Lab

**OBJECTIVE :** The main objective of the Inplant training is to provide a short-term work experience in an Industry/ Company/ Organization

**COURSE OUTCOMES (COs) : ( 3- 5)**

| CO1 | To get an insight of an industry / organization/company pertaining to the domain of study. |
|---|---|
| CO2 | To acquire skills and knowledge for a smooth transition into the career. |
| CO3 | To gain field experience and get linked with the professional network. |

**Mapping of Course Outcomes with Program Outcomes (POs)**

| COs/POs | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CO1 | M | L | L | L | L | H | H | H | H | H | H | H |
| CO2 | H | M | H | H | M | H | H | H | H | H | H | M |
| CO3 | H | H | H | H | M | H | H | H | H | H | H | M |

| COs / PSOs | PSO1 | | PSO2 | | PSO3 | | PSO4 | | PSO5 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CO1 | | | | | | | | | | | | |

**H/M/L indicates Strength of Correlation    H- High, M- Medium, L-Low**

| Category | Basic Sciences | Engineering Sciences | Humanities and Social  Sciences | Program Core | Program Electives | Open Electives | Practical / Project | Internships / Technical Skill | Soft Skills | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|

| | | | | | | | | | ✓ | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| Subject Code | Subject Name | Ty/ Lb/ | L | T/ S.Lr | P/ R | C |
|---|---|---|---|---|---|---|
| BIT18L04 | **MINI PROJECT /INPLANT TRAINING / INTERNSHIP** | Lb | 0 | 0/0 | 3/0 | 1 |

**OBJECTIVE :**

- The main objective of the In-plant training is to provide a short-term work experience in an Industry/ Company/ Organization

| Subject Code | Subject Name | Ty/ Lb/ ETL | L | T/ S.Lr | P/R | C |
|---|---|---|---|---|---|---|
| BIT18TS3 | **TECHNICAL SKILL III (EVALUATION)** | Lb | 0 | 0/0 | 3/0 | 1 |

**OBJECTIVES:**

- To make the students expert in domain specific knowledge.
- To develop professionals with idealistic, practical and moral values.
- To facilitate the students with emerging technology.

From the list of skill development courses declared by the department, the students are expected to acquire the skill and get certified. This will be evaluated at the end of the semester by the faculty.

| Subject Code | Subject Name | Ty/ Lb/ ETL | L | T/ S.Lr | P/R | C |
|---|---|---|---|---|---|---|
| **BIT18L07** | **PROJECT PHASE – I** | Lb | 0 | 0/0 | 3/3 | 2 |

**OBJECTIVES:**

- The objective of the Main Project is to culminate the academic study and provide an opportunity to explore a problem or issue , address through focused and applied research under the direction of a faculty mentor. The project demonstrates the student's ability to synthesize and apply the knowledge and skills acquired to real-world issues and problems. This project affirms the students to think critically and creatively, find an optimal solution, make ethical decisions and to present effectively.

B.Tech CSE Project carries 12 credits of which , Phase I carries 2 credit. In Phase I ,Students are expected to

(i) Identify a Problem.

(ii) Have the feasibility explored.

(iii) Freeze the Requirement specification (both user and system).

(iv) Construct the architectural model (as many as required).

(v) Design the solution.

(vi) If possible publish the Feasibilty study as a survey paper

| Subject Code: **BHS18FLX** | Subject Name : **FOREIGN LANGUAGE (EVALUATION)** | Ty/ Lb/ ETL | L | T/ S.Lr | P/R | C |
|---|---|---|---|---|---|---|
| | **Prerequisite: NIL** | Lb | 0 | 0/0 | 3/3 | 2 |

L : Lecture T : Tutorial  S.Lr : Supervised Learning  P : Project  R : Research C: Credits
T/L/ETL : Theory/Lab/Embedded Theory and Lab

**OBJECTIVES :**  To recognize the cultural values, practices, and heritage of the foreign country, communicate effectively in a foreign language and interact in a culturally appropriate manner with native speakers of that language.

**COURSE OUTCOMES (COs) : ( 3- 5)**

| | |
|---|---|
| CO1 | Achieve functional proficiency in listening, speaking, reading, and writing. |
| CO2 | Develop an  insight into the nature of language itself, the process of language and culture acquisition. |
| CO3 | Decode, analyze, and interpret authentic texts of different genres. |

**Mapping of Course Outcomes with Program Outcomes (POs)**

| COs/POs | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CO1 | L | L | L | L | L | H | L | H | M | H | H | L |
| CO2 | M | L | L | L | L | H | L | H | H | H | H | L |
| CO3 | L | L | M | M | L | H | M | H | M | H | H | L |

| COs / PSOs | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | | | |
|---|---|---|---|---|---|---|---|---|
| CO1 | | | | | | | | |
| CO2 | | | | | | | | |

**H/M/L indicates Strength of Correlation    H- High, M- Medium, L-Low**

| Category | Basic Sciences | Engineering Sciences | Humanities and  Social Sciences | Program Core | Program Electives | Open Electives | Practical / Project | Internships / Technical Skill | Soft Skills | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | ✓ | | | | | | | | | |

| Subject Code: **BIT18L08** | Subject Name : **PROJECT PHASE - II** | Ty/ Lb/ ETL | L | T/ S.Lr | P/R | C |
|---|---|---|---|---|---|---|
| | Prerequisite: BIT17L10 | Lb | 0 | 0/0 | 12/12 | 8 |

L : Lecture T : Tutorial    S.Lr : Supervised Learning  P : Project  R : Research C: Credits
T/L/ETL : Theory/Lab/Embedded Theory and Lab

**OBJECTIVES :**    The objective of the Main Project is to culminate the academic study and provide an opportunity to explore a problem or issue , address through focused and applied research under the direction of a faculty mentor. The project demonstrates the student's ability to synthesize and apply the knowledge and skills acquired to real-world issues and problems. This project affirms the students to think critically and creatively, find an optimal solution, make ethical decisions and to present effectively.

**COURSE OUTCOMES (COs) : ( 3- 5)**

| CO1 | Apply the knowledge and skills acquired in the course of study addressing a specific problem or issue. |
|---|---|
| CO2 | To encourage students to think critically and creatively about societal issues and develop user friendly and reachable solutions |
| CO3 | To refine research skills and demonstrate their proficiency in communication skills. |
| CO4 | To take on the challenges of teamwork, prepare a presentation and demonstrate the innate talents. |

**Mapping of Course Outcomes with Program Outcomes (POs)**

| COs/POs | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CO1 | H | CO1 | H | CO1 | H | CO1 | H | CO1 | H | CO1 | H | CO1 |
| CO2 | H | CO2 | H | CO2 | H | CO2 | H | CO2 | H | CO2 | H | CO2 |
| CO3 | H | CO3 | H | CO3 | H | CO3 | H | CO3 | H | CO3 | H | CO3 |
| CO4 | H | CO4 | H | CO4 | H | CO4 | H | CO4 | H | CO4 | H | CO4 |

| COs / PSOs | PSO1 | | PSO2 | | PSO3 | | PSO4 | | PSO5 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CO1 | | | | | | | | | | | | |
| CO2 | | | | | | | | | | | | |

**H/M/L indicates Strength of Correlation    H- High, M- Medium, L-Low**

| Category | Basic Sciences | Engineering Sciences | Humanities and Social  Sciences | Program Core | Program Electives | Open Electives | Practical / Project | Internships / Technical Skill | Soft Skills | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | ✓ | | | | | |

| Subject Code | Subject Name | Ty/ Lb/ ETL | L | T/ S.Lr | P/R | C |
|---|---|---|---|---|---|---|
| **BIT18L08** | **PROJECT (PHASE – II)** | Lb | 0 | 0/0 | 12/12 | 8 |

**OBJCETIVES:**

The objective of the Main Project is to culminate the academic study and provide an opportunity to explore a problem or issue , address through focused and applied research under the direction of a faculty mentor. The project demonstrates the student's ability to synthesize and apply the knowledge and skills acquired to real-world issues and problems. This project affirms the students to think critically and creatively, find an optimal solution, make ethical decisions and to present effectively.

Students are expected to carry out the following :
- (i)    Implement the Design using suitable technologies.
- (ii)   Generate the test cases.
- (iii)  Demonstrate the solution with suitable user interface.
- (iv)  Prepare a project report consolidating the phase-I and II activities.

C. B. Palanivel

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