

**COURSE RELATED TO EMPLOYABILITY / ENTREPRENEURSHIP /  
SKILL DEVELOPMENT**

<b>Sno</b>	<b>Course Name</b>	<b>Course Code</b>
1	SOFT SKILLS I	BSK17ET1
2	TECHNICAL SKILL I (EVALUATION)	BCS17TS1
3	TECHNICAL SKILL II (EVALUATION)	BCS17TS2
4	IN-PLANT TRAINING	BCS17L07
5	SOFT SKILLS – II	BSK17ET2
6	MINI PROJECT	BCS17L10
7	TECHNICAL SKILL III (EVALUATION)	BCS17TS3
8	PROJECT PHASE – 1	BCS17L13
9	FOREIGN LANGUAGE	BFL17001
10	PROJECT (PHASE – II)	BCS17L14
11	TECHNICAL SKILL I (EVALUATION)	BCS18TS1
12	SOFT SKILL I	BEN18SK1
13	TECHNICAL SKILL II (EVALUATION)	BCS18TS2
14	SOFT SKILL – II	BEN18SK2
15	INPLANT TRAINING / INTERNSHIP / MINI PROJECT (EVALUATION)	BCS18L09
16	TECHNICAL SKILL III (EVALUATION)	BCS18TS3
17	PROJECT PHASE - I	BCS18L13
18	PROJECT (PHASE – II)	BCS18L14
19	SOFT SKILLS	BIS15L15
20	TECHNICAL SKILL I	BIS18TS1
21	SOFT SKILL I(CAREER & CONFIDENCE BUILDING	BEN18SK1
22	TECHNICAL SKILL II	BIS18TS2
23	SOFT SKILL II(QUALITATIVE & QUANTITATIVE SKILLS)	BEN18SK2
24	INPLANT TRAINING / INTERNSHIP / MINI PROJECT (EVALUATION)	BIS18L07
25	TECHNICAL SKILL III	BIS18TS3
26	FOREIGN LANGUAGE (EVALUATION)	BHS18FLX
27	PROJECT PHASE - I	BIS18L10
28	PROJECT (PHASE – II)	BIS18L11
29	ENTREPRENEURIAL DEVELOPMENT	HBMG17G01

**B.Tech. (COMPUTER SCIENCE AND ENGINEERING)**

*Curriculum and Syllabus*

*Regulation – 2017*

<b>Subject Code:</b> <b>BSK17ET1</b>	<b>Subject Name :</b> <b>SOFT SKILLS I</b>	<b>T / L / ETL</b>	<b>L</b>	<b>T / S.Lr</b>	<b>P / R</b>	<b>C</b>
	Prerequisite: NIL	ETL	1	0/1	1/0	2

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

**OBJECTIVE :**

- 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.

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

Students will be able to

CO1	Be aware of various top companies leading to improvement in skills amongst them.
CO2	Be aware of various candidate recruitment techniques like group discussion, interviews and be able to prepare CV's and resumes.
CO3	Prepare for different types of interviews and be prepared for HR and technical interviews.
CO4	Improve their verbal, written and other skills by performing mock sessions.

**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	M	M	H	M	H	M	H
CO2	L	L	L	L	L	M	M	H	M	H	M	H
CO3	L	L	L	L	L	M	M	H	M	H	M	H
CO4	L	L	L	L	L	M	M	H	M	H	M	H
COs / PSOs	PSO1		PSO2		PSO3							
CO1	L		L		H							
CO2	L		L		H							
CO3	L		L		H							
CO4	L		L		H							

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			
Approval												

Course Code	Prerequisite Course Code	Course Title	Category	C	L	T/SLr	P/R	Ty/ Lb/ ETL/ EVL
BSK17ET1	NIL	<b>SOFT SKILLS I</b>	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 - 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 procedures 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 Number of Hours: 30**

Course Code	Prerequisite Course Code	Course Title	Category	C	L	T/SL r	P/R	Ty/ Lb/ ETL/ EVL
BCS17TS 1	NIL	<b>TECHNICAL SKILL I (EVALUATION)</b>	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	Category	C	L	T/SLr	P/R	Ty/ Lb/ ETL/ EVL
BCS17TS2	BCS17TS1	<b>TECHNICAL SKILL II (EVALUATION)</b>	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.

<b>Subject Code:</b> BCS17L07	<b>Subject Name : In-Plant Training</b>							<b>T / L/ ETL</b>	<b>L</b>	<b>T / S.Lr</b>	<b>P/ R</b>	<b>C</b>
	Prerequisite : NIL							0	0	0/0	0/0	1
L : Lecture T : Tutorial SLr : Supervised Learning P : Project R : Research C: Credits T/L/ETL : Theory/Lab/Embedded Theory and Lab												
<b>OBJECTIVE :</b> The main objective of the Inplant training is to provide a short-term work experience in an Industry/ Company/ Organization												
<b>COURSE OUTCOMES (COs) : ( 3- 5)</b>												
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.											
<b>Mapping of Course Outcomes with Program Outcomes (POs)</b>												
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												
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 1	Soft Skills			
								✓				
Approval												

Course Code	Prerequisite Course Code	Course Title	Category	C	L	T/SL r	P/R	Ty/ Lb/ ETL/ EVL
BCS17L07	NIL	<b>In-Plant Training</b>	TS	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





## **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 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: BCS17L10	Subject Name : Mini Project							T / L/ ETL	L	T / S.Lr	P / R	C
	Prerequisite: NIL							MP	0	0/0	0/0	1
L : Lecture T : Tutorial SLr : Supervised Learning P : Project R : Research C: Credits T/L/ETL : Theory/Lab/Embedded Theory and Lab												
<b>OBJECTIVE :</b> To acquire hands-on experience in converting a novel idea / technique into a working model / prototype involving multi-disciplinary skills and / or knowledge and working in at team.												
<b>COURSE OUTCOMES (COs) : ( 3- 5)</b>												
CO1	To conceptualize a novel idea / technique into a product											
CO2	To develop a multi-disciplinary thinking and enable teamwork											
CO3	Ideate and develop a prototype											
<b>Mapping of Course Outcomes with Program Outcomes (POs)</b>												
COs/POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	H	H	H	M	M	H	H	H	M	L	H	M
CO2	H	H	H	M	H	M	M	M	H	H	H	H
CO3	H	H	H	H	H	H	M	H	H	M	H	H
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 1	Soft Skills			
							✓					

Approval	
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Course Code	Prerequisite Course Code	Course Title	Category	C	L	T/S Lr	P/R	Ty/Lb/ETL/EVL
BCS17L10	NIL	<b>MINI PROJECT ( EVALUATION)</b>	MP	1	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 7<sup>th</sup> Semester.

Course Code	Prerequisite Course Code	Course Title	Category	C	L	T/S Lr	P/R	Ty/ Lb/ ETL/ EVL
BCS17TS 3	BCS17TS 2	<b>TECHNICAL SKILL III (EVALUATION)</b>	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.

<b>Subject Code:</b> BCS17L13	<b>Subject Name : Project Phase - 1</b>	<b>T / L/ ETL</b>	<b>L</b>	<b>T / S.Lr</b>	<b>P/ R</b>	<b>C</b>
	Prerequisite: NIL	Lb	0	0/0	6/0	2

L : Lecture T : Tutorial SLr : Supervised Learning P : Project R : Research C: Credits

T/L/ETL : Theory/Lab/Embedded Theory and Lab

**OBJECTIVE :** 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	H	H	H	M	H	H	L	M	M	H	H
CO2	H	H	H	H	H	H	H	M	M	M	H	H
CO3	H	H	H	H	H	H	H	M	M	H	H	M
CO4	H	M	H	H	H	H	M	H	H	H	H	H
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			
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							✓					
Approval												

Course Code	Prerequisite Course Code	Course Title	Category	C	L	T/SL r	P/R	Ty/ Lb/ ETL/ EVL
BCS17L13	NIL	<b>PROJECT PHASE – 1</b>	PP1	2	0	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 Feasibility study as a survey paper

Subject Code:	Subject Name :	T / L/ ETL	L	T / S.Lr	P/ R	C
BFL17001	<b>Foreign Language</b>					
	Prerequisite: NIL	EVL	1	0/1	0/0	2
L : Lecture T : Tutorial SLr : Supervised Learning P : Project R : Research C: Credits						
T/L/ETL : Theory/Lab/Embedded Theory and Lab						
<b>OBJECTIVE :</b> 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.						
<b>COURSE OUTCOMES (COs) : ( 3- 5)</b>						
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.					
<b>Mapping of Course Outcomes with Program Outcomes (POs)</b>						

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 1	Soft Skills			
			✓									
Approval												

<b>Subject Code:</b> BCS17L14	<b>Subject Name : PROJECT PHASE - II</b>	<b>T / L / ETL</b>	<b>L</b>	<b>T / S.Lr</b>	<b>P / R</b>	<b>C</b>
	Prerequisite: BCS17L13	Lb	0	0/0	20/0	10

L : Lecture T : Tutorial SLr : Supervised Learning P : Project R : Research C: Credits

T/L/ETL : Theory/Lab/Embedded Theory and Lab

**OBJECTIVE :** 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.											
<b>Mapping of Course Outcomes with Program Outcomes (POs)</b>												
COs/POs		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			
							✓					
Approval												

Course Code	Prerequisite Course Code	Course Title	Category	C	L	T/SLr	P/R	Ty/ Lb/ ETL/ EVL
BCS17L14	BCS17L13	<b>PROJECT (PHASE – II)</b>	PP2	10	0	0/0	20/0	Lb

### OBJCETIVES:

- › Able to do main projects in their respective domain

Students are expected to carry out the following :

- 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.

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**B.Tech – Computer Science and Engineering (Full Time)  
Curriculum - Regulation 2018**

<b>SUBJECT CODE</b>	<b>SUBJECT NAME</b>	<b>Ty/ Lb/ ETL</b>	<b>L</b>	<b>T/ S.Lr</b>	<b>P/R</b>	<b>C</b>
BCS18TS1	<b>TECHNICAL SKILL I (EVALUATION)</b>	<b>Lb</b>	<b>0</b>	<b>0/0</b>	<b>3/0</b>	<b>1</b>

**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: <b>BEN18SK1</b>	Subject Name :  <b>SOFT SKILL I</b>						<b>Ty/ Lb/ ET L</b>	<b>L</b>	<b>T/ S.Lr</b>	<b>P/R</b>	<b>C</b>	
	Prerequisite: NIL						<b>ETL</b>	<b>0</b>	<b>0/0</b>	<b>3/0</b>	<b>1</b>	
L : Lecture T : Tutorial S.Lr : Supervised Learning P : Project R : Research C: Credits T/L/ETL : Theory/Lab/Embedded Theory and Lab												
<b>OBJECTIVES :</b>												
<ul style="list-style-type: none"> <li>● To create awareness in students, various top companies helping them improve their skill set matrix, leading to develop a positive frame of mind.</li> <li>● To help students be aware of various techniques of candidate recruitment and help them prepare CV's and resume.</li> <li>● To help student how to face various types of interview, preparing for HR, technical interviews.</li> <li>● To help students improve their verbal reading, narration and presentation skills by performs various mock sessions.</li> </ul>												
<b>COURSE OUTCOMES (COs) : ( 3- 5)</b>												
Students will be able to												
CO1	Be aware of various top companies leading to improvement in skills amongst them.											
CO2	Be aware of various candidate recruitment techniques like group discussion, interviews and be able to prepare CV's and resumes.											
CO3	Prepare for different types of interviews and be prepared for HR and technical interviews.											
CO4	Improve their verbal, written and other skills by performing mock sessions.											
<b>Mapping of Course Outcomes with Program Outcomes (POs)</b>												
<b>COs/POs</b>	<b>PO 1</b>	<b>PO 2</b>	<b>PO 3</b>	<b>PO 4</b>	<b>PO 5</b>	<b>PO 6</b>	<b>PO 7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PO12</b>
CO1	1	1	1	1	1	2	2	3	2	3	2	3
CO2	1	1	1	1	1	2	2	3	2	3	2	3
CO3	1	1	1	1	1	2	2	3	2	3	2	3
CO4	1	1	1	1	1	2	2	3	2	3	2	3
<b>COs / PSOs</b>	<b>PSO1</b>		<b>PSO2</b>			<b>PSO3</b>						
CO1	1		1			3						
CO2	1		1			3						
CO3	1		1			3						
CO4	1		1			3						
<b>H/M/L indicates Strength of Correlation H- High, M- Medium, L-Low</b>												
Category	Basic Sciences	Engineering	Humanities	Professional	Professional	Open Electives	Professional Electives	Interdisciplinary Projects	Soft Skills			

		n c e s	S o c i a l S c i e n c e s		s			/	T e c h n i c a l				
									S k i l l				

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 procedures 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**

<b>SUBJECT CODE</b>	<b>SUBJECT NAME</b>	<b>Ty/ Lb/ ETL</b>	<b>L</b>	<b>T/ S.Lr</b>	<b>P/R</b>	<b>C</b>
BCS18TS2	<b>TECHNICAL SKILL II (EVALUATION)</b>	<b>Lb</b>	<b>0</b>	<b>0/0</b>	<b>3/0</b>	<b>1</b>

**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.





			c i a l  S c i e n c e s										
										✓			

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: <b>BCS18L09</b>	Subject Name : <b>INPLANT TRAINING / INTERNSHIP / MINI PROJECT (EVALUATION)</b>						<b>Ty/ Lb/ ETL</b>	<b>L</b>	<b>T/ S.Lr</b>	<b>P/R</b>	<b>C</b>	
	Prerequisite : NIL						<b>Lb</b>	<b>0</b>	<b>0/0</b>	<b>3/0</b>	<b>1</b>	
L : Lecture T : Tutorial S.Lr : Supervised Learning P : Project R : Research C: Credits												
T/L/ETL : Theory/Lab/Embedded Theory and Lab												
<b>OBJECTIVE</b> : The main objective of the Inplant training is to provide a short-term work experience in an Industry/ Company/ Organization												
<b>COURSE OUTCOMES (COs) : ( 3- 5)</b>												
CO1	Aspire an insight of an industry / organization/company pertaining to the domain of study.											
CO2	Construct skills and knowledge for a smooth transition into the career.											
CO3	Support field experience and get linked with the professional network.											
CO4	To equip the students with industry knowledge and understanding of various possible technologies.											
CO5	To impart the knowledge of various technologies form the industry resources											
<b>Mapping of Course Outcomes with Program Outcomes (POs)</b>												
<b>COs/POs</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PO12</b>
CO1	2	2	3	3	2	3	3	3	3	3	3	3
CO2	3	2	3	3	2	3	3	3	3	3	3	2
CO3	3	3	3	3	2	3	3	3	3	3	3	2
CO4	2	1	3	1	3	3	2	2	2	2	2	2
CO5	1	2	3	2	3	2	3	2	2	2	1	2
<b>COs / PSOs</b>	<b>PSO1</b>			<b>PSO2</b>			<b>PSO3</b>			<b>PSO4</b>		
CO1	2			3			3			3		
CO2	3			2			3			3		
CO3	3			3			3			3		
CO4	2			3			2			3		
CO5	3			2			3			2		
<b>H/M/L indicates Strength of Correlation H- High, M- Medium, L-Low</b>												
Category	Basi c Scie nces	Engi neeri ng Scie nces	Hum aniti es and Soci al Scie nces	Prog ram Core	Prog ram Elec tives	Ope n Elec tives	Prac tical / Proj ect	Int ern shi ps / Te ch nic al Sk ill	Soft Skills			
								✓				

<b>SUBJECT CODE</b>	<b>SUBJECT NAME</b>	<b>Ty/ Lb/ ETL</b>	<b>L</b>	<b>T/ S.Lr</b>	<b>P/R</b>	<b>C</b>
BCS18L09	<b>INPLANT TRAINING / INTERNSHIP / MINI PROJECT (EVALUATION)</b>	<b>Lb</b>	<b>0</b>	<b>0/0</b>	<b>3/0</b>	<b>1</b>

**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/ ET L	L	T/ S.L r	P/ R	C
BCS18TS3	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: <b>BCS18L13</b>	Subject Name : <b>PROJECT PHASE - I</b>						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												
<b>OBJECTIVE :</b> 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>COURSE OUTCOMES (COs) : ( 3- 5)</b>												
CO1	Apply the knowledge and skills acquired in the course of study, addressing a specific problem or issue.											
CO2	Design the software system effectively											
CO3	Encourage students to think critically and creatively about societal issues and develop user friendly solution.											
CO4	Support the field experience and get linked with the professional network.											
CO5	Equip the students with industry knowledge and understanding of various possible technologies.											
<b>Mapping of Course Outcomes with Program Outcomes (POs)</b>												
<b>COs/POs</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PO12</b>
CO1	3	3	2	3	2	3	2	2	3	2	3	3
CO2	3	3	3	3	3	3	3	2	2	2	3	3
CO3	3	3	3	3	3	3	3	2	2	3	3	3
CO4	3	2	3	3	3	3	2	3	3	3	3	3
CO5	2	2	2	2	2	2	3	2	2	2	1	2
<b>COs / PSOs</b>	<b>PSO1</b>			<b>PSO2</b>			<b>PSO3</b>			<b>PSO4</b>		
CO1	3			2			3			3		
CO2	3			3			3			3		
CO3	3			3			3			3		
CO4	2			2			2			2		
CO5	3			2			3			2		
<b>H/M/L indicates Strength of Correlation H- High, M- Medium, L-Low</b>												
Category	Basi c Scie nces	Engi neeri ng Scie nces	Hum aniti es and Soci al Scie nces	Prog ram Core	Prog ram Elec tives	Ope n Elec tives	Prac tical / Proj ect	Int ern shi ps / Te ch nic al Sk ill	Soft Skills			
							✓					

<b>SUBJECT CODE</b>	<b>SUBJECT NAME</b>	<b>Ty/ Lb/ ETL</b>	<b>L</b>	<b>T/ S.Lr</b>	<b>P/R</b>	<b>C</b>
BCS18L13	<b>PROJECT PHASE – I</b>	Lb	0	0/0	3/3	2

**OBJECTIVE:**

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 Feasibility study as a survey paper



Subject Code: BCS18L14	Subject Name : <b>PROJECT (PHASE – II)</b>						Ty/ Lb/ ETL	L	T/ S.Lr	P/R	C	
	Prerequisite: BCS18L13						Lb	0	0/0	12/1 2	8	
L : Lecture T : Tutorial S.Lr : Supervised Learning P : Project R : Research C: Credits T/L/ETL : Theory/Lab/Embedded Theory and Lab												
<b>OBJECTIVE :</b> 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>COURSE OUTCOMES (COs) : ( 3- 5)</b>												
CO1	To explain the functionality of the system											
CO2	To express proficiency in handling the technologies											
CO3	To support the societal problems											
CO4	To summarize the innovative ideas with good documentation											
CO5	To validate the implementation of the software/Hardware system											
<b>Mapping of Course Outcomes with Program Outcomes (POs)</b>												
COs/POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	3	3	3	2	3	3	1	2	2	3	3
CO2	3	3	3	3	3	3	3	2	2	2	3	3
CO3	3	3	3	3	3	3	3	2	2	3	3	3
CO4	3	2	3	3	3	3	2	3	3	3	3	3
CO5	1	2	2	2	2	2	3	2	2	2	1	2
COs / PSOs	PSO1			PSO2			PSO3			PSO4		
CO1	3			3			2			3		
CO2	3			3			3			3		
CO3	3			3			3			3		
CO4	2			2			2			2		
CO5	3			2			2			2		
<b>H/M/L indicates Strength of Correlation H- High, M- Medium, L-Low</b>												
Category	Basic Sciences	Engineering Sciences	Humanities and Social Sciences	Program Core	Program Electives	Open Electives	Practical / Project	Internships / Technical Skill	Soft Skills			
							✓					

<b>SUBJECT CODE</b>	<b>SUBJECT NAME</b>	<b>Ty/ Lb/ ETL</b>	<b>L</b>	<b>T/ S.Lr</b>	<b>P/R</b>	<b>C</b>
BCS18L14	<b>PROJECT (PHASE – II)</b>	<b>Lb</b>	<b>0</b>	<b>0/0</b>	<b>12/12</b>	<b>8</b>

**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.

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.

**B.TECH (INFORMATION SECURITY AND DIGITAL  
FORENSICS)**

**FULL TIME**

**Regulations - 2015**

**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 – I Group discussions**

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

**UNIT II Logical Reasoning I**

Logical Statements – Arguments – Assumptions – Courses of Action.

**UNIT III Logical Reasoning II**

Logical conclusions – Deriving conclusions from passages – Theme detection.

**UNIT IV Arithmetical Reasoning I**

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

**UNIT V Arithmetical Reasoning II**

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

**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)

**(2018-REGULATION)**

**BACHELOR OF TECHNOLOGY  
Cyber Forensics and Information security**

<b>Course Code</b>	<b>Course Title</b>	<b>C</b>	<b>L</b>	<b>T/S.Lr</b>	<b>P/R</b>	<b>Ty/ Lb/ ETL/ EVL</b>
<b>BIS18TS1</b>	<b>TECHNICAL SKILL I</b>	1	0	0/0	3/0	Lb

**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: <b>BEN18SK1</b>	<b>SOFT SKILL I(Career &amp; Confidence Building)</b>						<b>C</b>	<b>L</b>	<b>T/S.L r</b>	<b>P/R</b>	<b>Ty /Lb /ET L</b>	
	Prerequisite: NIL						1	0	0/0	3/0	ETL	
L : Lecture T : Tutorial S.Lr : Supervised Learning P : Project R : Research C: Credits T/L/ETL : Theory/Lab/Embedded Theory and Lab												
<b>OBJECTIVES :</b>												
<ul style="list-style-type: none"> <li>To create awareness in students, various top companies helping them improve their skill set matrix, leading to develop a positive frame of mind.</li> <li>To help students be aware of various techniques of candidate recruitment and help them prepare CV's and resume.</li> <li>To help student how to face various types of interview, preparing for HR, technical interviews.</li> <li>To help students improve their verbal reading, narration and presentation skills by performs various mock sessions.</li> </ul>												
<b>COURSE OUTCOMES (COs) : ( 3- 5)</b>												
Students will be able to												
CO1	Be aware of various top companies leading to improvement in skills amongst them.											
CO2	Be aware of various candidate recruitment techniques like group discussion, interviews and be able to prepare CV's and resumes.											
CO3	Prepare for different types of interviews and be prepared for HR and technical interviews.											
CO4	Improve their verbal, written and other skills by performing mock sessions.											
<b>Mapping of Course Outcomes with Program Outcomes (POs)</b>												
<b>COs/POs</b>	<b>PO 1</b>	<b>PO 2</b>	<b>PO 3</b>	<b>PO 4</b>	<b>PO 5</b>	<b>PO 6</b>	<b>PO 7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PO12</b>
CO1	L	L	L	L	L	M	M	H	M	H	M	H
CO2	L	L	L	L	L	M	M	H	M	H	M	H
CO3	L	L	L	L	L	M	M	H	M	H	M	H
CO4	L	L	L	L	L	M	M	H	M	H	M	H
<b>COs / PSOs</b>	<b>PSO1</b>		<b>PSO2</b>		<b>PSO3</b>							
CO1	L		L		H							
CO2	L		L		H							
CO3	L		L		H							
CO4	L		L		H							
<b>H/M/L indicates Strength of Correlation H- High, M- Medium, L-Low</b>												
Category	B a s i c S k i l l s	E n g i n e e r i n g S	H u m a n i t i e s a n	P r o g r a m m a n a g e m e n t	P r o g r a m m a n a g e m e n t	O p e r a t i o n a l S k i l l s	P r a c t i c a l P r o j e c t i v e	I n t e r n e t i o n a l S k i l l s	S o f t S k i l l s			

		ci e n c e s	d S o c i a l S c i e n c e s		es		ct	p s / T e c h n i c a l S k i l l				

Course Code	Course Title	C	L	T/S/Lr	P/R	Ty/ Lb/ ETL/
<b>BEN18SK1</b>	<b>SOFT SKILL I(Career &amp; Confidence Building)</b>	1	0	0/0	3/0	ETL

**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 procedures 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**

<b>Course Code</b>	<b>Course Title</b>	<b>C</b>	<b>L</b>	<b>T/S.Lr</b>	<b>P/R</b>	<b>Ty/ Lb/ ETL/ EVL</b>
<b>BIS18TS2</b>	<b>TECHNICAL SKILL II</b>	1	0	0/0	3/0	Lb

**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.

<b>Subject Code:</b> BEN18SK2	<b>Subject Name :</b> SOFT SKILL II(Qualitative & Quantitative Skills)	<b>C</b>	<b>L</b>	<b>T/S.L r</b>	<b>P/R</b>	<b>Ty/Lb/ETL</b>
	Prerequisite: BEN18SK1	1	0	0/0	3/0	ETL

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

**OBJECTIVE :**

- 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.

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

CO1	Recognize and apply arithmetic knowledge in a variety of contexts.
CO2	Ability to identify and critically evaluate philosophical arguments and defend them from criticism.
CO3	Define data and interpret information from graphs.

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

COs/POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	H	H	H	H	H	H	L	L	H	M	H	H
CO2	M	M	M	H	L	H	L	H	H	H	H	L
CO3	H	H	H	H	H	H	M	M	H	H	H	H
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			
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Course Code	Course Title	C	L	T/S.Lr	P/R	Ty/ Lb/ ETL/
BEN18SK2	SOFT SKILL II(Qualitative & Quantitative Skills)	1	0	0/0	3/0	ETL

**OBJECTIVE:**

- 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 BOOKS:**

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: <b>BIS18L07</b>	Subject Name : <b>INPLANT TRAINING / INTERNSHIP / MINI PROJECT (EVALUATION)</b>						<b>C</b>	<b>L</b>	<b>T/S.Lr</b>	<b>P/R</b>	<b>Ty/Lb /ETL</b>	
	Prerequisite : NIL						1	0	0/0	3/0	Lb	
L : Lecture T : Tutorial S.Lr : Supervised Learning P : Project R : Research C: Credits												
T/L/ETL : Theory/Lab/Embedded Theory and Lab												
<b>OBJECTIVE :</b> The main objective of the Inplant training is to provide a short-term work experience in an Industry/ Company/ Organization												
<b>COURSE OUTCOMES (COs) : ( 3- 5)</b>												
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.											
<b>Mapping of Course Outcomes with Program Outcomes (POs)</b>												
<b>COs/POs</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PO12</b>
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
<b>COs / PSOs</b>	<b>PSO1</b>		<b>PSO2</b>		<b>PSO3</b>		<b>PSO4</b>		<b>PSO5</b>			
CO1												
<b>H/M/L indicates Strength of Correlation H- High, M- Medium, L-Low</b>												
Category	Basic Sciences	Engineering Sciences	Humanities and Social Sciences	Program Core	Program Electives	Open Electives	Practical / Project	Internships / Technical Skill				
									✓			

<b>Course Code</b>	<b>Course Title</b>	<b>C</b>	<b>L</b>	<b>T/S.Lr</b>	<b>P/R</b>	<b>Ty/ Lb/ ETL/ EVL</b>
<b>BIS18L07</b>	<b>MINI PROJECT / INPLANT TRAINING / INTERNSHIP</b>	1	0	0/0	3/0	Lb

**OBJECTIVE :**

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

<b>Course Code</b>	<b>Course Title</b>	<b>C</b>	<b>L</b>	<b>T/S.Lr</b>	<b>P/R</b>	<b>Ty/ Lb/ ETL/ EVL</b>
<b>BIS18TS3</b>	<b>TECHNICAL SKILL III</b>	1	0	0/0	3/0	Lb

**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: <b>BIS18L10</b>	Subject Name : <b>PROJECT PHASE - I</b>						<b>C</b>	<b>L</b>	<b>T/S.Lr</b>	<b>P/R</b>	<b>Ty /Lb /ETL</b>	
	Prerequisite: NIL						2	0	0/0	3/3	Lb	
L : Lecture T : Tutorial S.Lr : Supervised Learning P : Project R : Research C: Credits T/L/ETL : Theory/Lab/Embedded Theory and Lab												
<b>OBJECTIVE :</b> 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>COURSE OUTCOMES (COs) : ( 3- 5)</b>												
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.											
<b>Mapping of Course Outcomes with Program Outcomes (POs)</b>												
<b>COs/POs</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PO12</b>
<b>CO1</b>	<b>H</b>	<b>H</b>	<b>H</b>	<b>H</b>	<b>M</b>	<b>H</b>	<b>H</b>	<b>L</b>	<b>M</b>	<b>M</b>	<b>H</b>	<b>H</b>
<b>CO2</b>	<b>H</b>	<b>H</b>	<b>H</b>	<b>H</b>	<b>H</b>	<b>H</b>	<b>H</b>	<b>M</b>	<b>M</b>	<b>M</b>	<b>H</b>	<b>H</b>
<b>CO3</b>	<b>H</b>	<b>H</b>	<b>H</b>	<b>H</b>	<b>H</b>	<b>H</b>	<b>H</b>	<b>M</b>	<b>M</b>	<b>H</b>	<b>H</b>	<b>M</b>
<b>CO4</b>	<b>H</b>	<b>M</b>	<b>H</b>	<b>H</b>	<b>H</b>	<b>H</b>	<b>M</b>	<b>H</b>	<b>H</b>	<b>H</b>	<b>H</b>	<b>H</b>
<b>COs / PSOs</b>	<b>PSO1</b>		<b>PSO2</b>		<b>PSO3</b>		<b>PSO4</b>		<b>PSO5</b>			
<b>CO1</b>												
<b>H/M/L indicates Strength of Correlation H- High, M- Medium, L-Low</b>												
Category	Basic Sciences	Engineering Sciences	Humanities and Social Sciences	Program Core	Program Electives	Open Electives	Practical/Project	Interdisciplinary Technical Skills	Soft Skills			
							✓					

<b>Course Code</b>	<b>Course Title</b>	<b>C</b>	<b>L</b>	<b>T/S.Lr</b>	<b>P/R</b>	<b>Ty/ Lb/ ETL/ EVL</b>
<b>BIS18L10</b>	<b>PROJECT PHASE - I</b>	2	0	0/0	3/3	Lb

**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 ISDF Project carries 8 credits of which , Phase I carries 2 credit.

In Phase I,Students are expected to

- Identify a Problem.
- Have the feasibility explored.
- Freeze the Requirement specification (both user and system)
- Construct the architectural model(as many as required).
- Design the solution.

Subject Code: BIS18L11	Subject Name : <b>PROJECT (PHASE – II)</b>	C	L	T/S.Lr	P/R	Ty /Lb /ETL
	Prerequisite: BCS18L13	8	0	0/0	12/12	Lb

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 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												

**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 Skills	Soft Skills			
							✓					

<b>Course Code</b>	<b>Course Title</b>	<b>C</b>	<b>L</b>	<b>T/S.Lr</b>	<b>P/R</b>	<b>Ty/ Lb/ ETL/ EVL</b>
<b>BIS18L11</b>	<b>PROJECT PHASE - II</b>	8	0	0/0	12/12	<b>Lb</b>

**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.

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.

**B.Sc. (Information Science and Cyber Forensics)**

*Curriculum and Syllabus*

*Regulation – 2017*

	<b>ENTREPRENEURIAL DEVELOPMENT</b>	<b>LTPC</b>
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**Unit – I Concept of Entrepreneurship**

Entrepreneurship – Meaning – Types – Qualities of an Entrepreneur – Classification of Entrepreneur – Factors influencing Entrepreneurship – Functions of Entrepreneurships.

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**Unit – II Entrepreneurial Development Agencies**

Commercial Banks – District Industries Centre – National Small Industries Corporation – Small Industries Development Organisation – Small Industries Service Institute, All India Financial Institutions – IDBI – IFCI – ICICI – IRDBI.

**Unit – III Project Management**

Business idea generation techniques – Identification of Business Opportunities – Feasibility study – Marketing, Finance, Technology and Legal Formalities – Preparation of project report – Tools of Appraisal.

**Unit – IV Entrepreneurial Development Programmes**

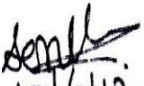
Entrepreneurial Development Programmes (EDP) – Role, relevance and achievements – Role of Government in organisind EDPs – Critical Evaluation.

**Unit – V Economic Development and Entrepreneurial Growth**

Role of Entrepreneurs in Economic Growth – Strategic approaches in the changing Economic scenario for small scale Entrepreneurs – Networking, Niche play, Geographic Concentration, Franchising / Dealership – Development of Women Entrepreneurship.

**Books:**

1. *Dr. V. Balu – ENTREPRENEURIAL DEVELOPMENT*
2. *Dr. P.T. Vijayashree & Dr. M. Alagammai – ENTREPRENEURIAL DEVELOPMENT*

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