



BRILLIANT GRAMMAR SCHOOL EDUCATIONAL SOCIETY'S GROUP OF INSTITUTIONS-INTEGRATED CAMPUS

(Approved by A.I.C.T.E & P.C.I, New Delhi, Affiliated to JNTUH, Hyderabad)

Abdullapur (V), Abdullapurmet (M), R.R Dist. Hyderabad – 501505

website: www.bgiic.ac.in, E-mail : principal@bgiic.ac.in, principal.7q@gmail.com Cell:9442263457

Display of COs, Pos, PEOs, PSOs in campus

**BRILLIANT GRAMMAR SCHOOL EDUCATIONAL SOCIETY'S
GROUP OF INSTITUTIONS - INTEGRATED CAMPUS**
(Approved by AICTE, PCI & Affiliated to JNTUH)
Abdullapur (V), Abdullapurmet (M), R.R Dist, 501505, Telangana, INDIA.
Email ID: principal@bgiic.ac.in, website : www.bgiic.ac.in

**DEPARTMENT OF ELECTRONICS AND
COMMUNICATION ENGINEERING**

Program Specific Outcomes (PSOs)

- 1. Impart Engineering Knowledge Through Teaching, Learning & Participative Process.**
- 2. Ensure Engineering Fundamental Concepts Learning With Emphasis On Self Learning Process Through Lab Practices And Project Development Programs.**
- 3. Develop Team Building, Ethical Values And Create Interest For Continuous Learning Process.**

DIRECTOR
Brilliant Grammar School
Educational Society's Group
of Institutions-Integrated Campus (7Q)
Abdullapur (V), Abdullapurmet (M),
R.R. Dist-501505.



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Program Educational Objectives

- Peo 1 Imparting Knowledge On Latest Art Of Technology In Curriculum To Mould The Student For Higher Education.
- Peo 2 Produce Graduates To The Challenging Needs Of The Industry.
- Peo 3 Develop The Professional And Ethical Values For Society Upliftment
- Peo 4 To Develop Interest In Lifelong Learning Process Through Professional Memberships Active Participation.

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GPS Map Camera

Rangareddy, Telangana, India
BRILLIANT GRAMMAR SCHOOL EDUCATIONAL SOCIETY'S GROUP OF INSTITUTIONS - INTEGRATED CAMPUS BLOCK 1, Telangana 501505, India
Lat 17.316881°
Long 78.70553°
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Google

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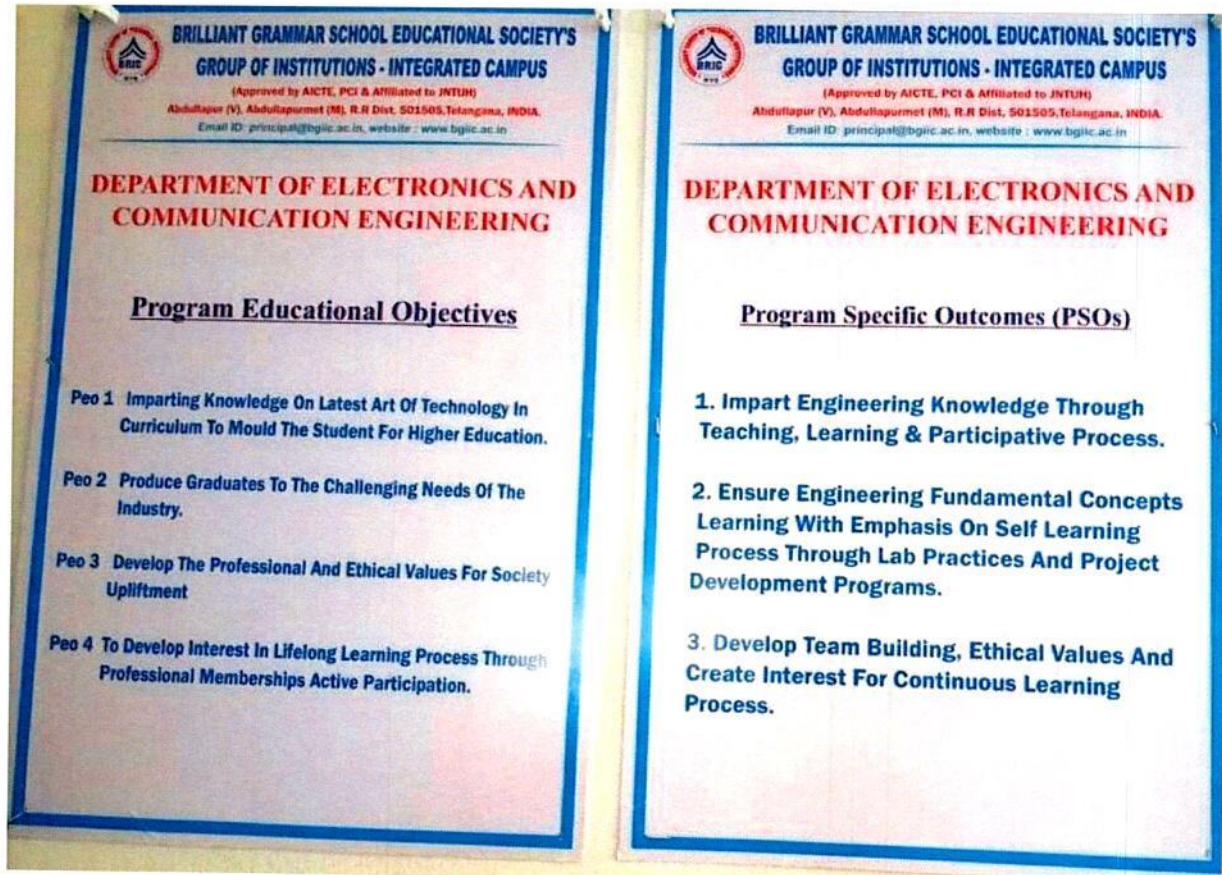


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**212 (ECE STAFF)
FACULTY ROOM**

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

BLOOM'S TAXONOMY DIGITAL PLANNING VERBS

REMMEMBERING	UNDERSTANDING	APPLYING	ANALYZING	EVALUATING	CREATING
Copying Defining Finding Locating Quoting Listening Googling Repeating Retrieving Outlining Highlighting Memorizing Networking Searching Identifying Selecting Tabulating Duplicating Matching Bookmarking Bullet-pointing	Annotating Tweeting Associating Tagging Summarizing Relating Categorizing Paraphrasing Predicting Comparing Contrasting Commenting Journaling Interpreting Grouping Inferring Estimating Extending Gathering Exemplifying Expressing	Acting Out Articulate Reenact Loading Choosing Determining Displaying Judging Executing Examining Implementing Sketching Experimenting Hacking Interviewing Painting Preparing Playing Integrating Presenting Charting	Calculating Categorizing Breaking Down Comparing Deconstructing Linking Mapping Organizing Approaching Advertising Dividing Deducing Debugging Illustration Questioning Structuring Integrating Attributing Estimating Explaining	Arguing Validating Testing Scoring Assessing Criticizing Commenting Debating Defending Detecting Experimenting Grading Hypothesizing Measuring Moderating Posting Predicting Rating Reflecting Reviewing Editorializing	Blogging Building Animating Adapting Collaborating Composing Directing Devising Podcasting Wiki Building Writing Filming Programming Simulating Role Playing Solving Mixing Facilitating Managing Negotiating Leading

Rangareddy, Telangana, India

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
PROGRAM OUTCOMES (POS)

After The Completion Of The Course Engineering Graduates Will Be Able To:

1. **Engineering Knowledge:** Apply The Knowledge Of Mathematics, Science, Engineering Fundamentals, And An Engineering Specialization To The Solution Of Complex Engineering Problems.
2. **Problem Analysis:** Identify, Formulate, Review Research Literature, And Analyze Complex Engineering Problems Reaching Substantiated Conclusions Using First Principles Of Mathematics, Natural Sciences, And Engineering Sciences.
3. **Design/development Of Solutions:** Design Solutions For Complex Engineering Problems And Design System Components Or Processes That Meet The Specified Needs With Appropriate Consideration For The Public Health And Safety, And The Cultural, Societal, And Environmental Considerations.
4. **Conduct Investigations Of Complex Problems:** Use Research-based Knowledge And Research Methods Including Design Of Experiments, Analysis And Interpretation Of Data, And Synthesis Of The Information To Provide Valid Conclusions.
5. **Modern Tool Usage:** Create, Select, And Apply Appropriate Techniques, Resources, And Modern Engineering And It Tools Including Prediction And Modeling To Complex Engineering Activities With An Understanding Of The Limitations.
6. **The Engineer And Society:** Apply Reasoning Informed By The Contextual Knowledge To Assess Societal, Health, Safety, Legal And Cultural Issues And The Consequent Responsibilities Relevant To The Professional Engineering Practice.
7. **Environment And Sustainability:** Understand The Impact Of The Professional Engineering Solutions In Societal And Environmental Contexts, And Demonstrate The Knowledge Of, And Need For Sustainable Development.
8. **Ethics:** Apply Ethical Principles And Commit To Professional Ethics And Responsibilities And Norms Of The Engineering Practice.
9. **Individual And Team Work:** Function Effectively As An Individual, And As A Member Or Leader In Diverse Teams, And In Multidisciplinary Settings.
10. **Communication:** Communicate Effectively On Complex Engineering Activities With The Engineering Community And With Society At Large, Such As, Being Able To Comprehend And Write Effective Reports And Design Documentation, Make Effective Presentations, And Give And Receive Clear Instructions.
11. **Project Management And Finance:** Demonstrate Knowledge And Understanding Of The Engineering And Management Principles And Apply These To One's Own Work, As A Member And Leader In A Team, To Manage Projects And In Multidisciplinary Environments.
12. **Life-long Learning:** Recognize The Need For, And Have The Preparation And Ability To Engage In Independent And Life-long Learning In The Broadest Context Of Technological Change


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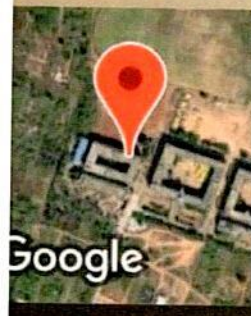
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 **GPS Map Camera**



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**DEPARTMENT OF ELECTRONICS AND
COMMUNICATION ENGINEERING**

BLOOM'S TAXONOMY

Evaluation (top level): Assessing theories, Comparison of ideas; Evaluating outcomes; Solving, Judging; Recommending; Rating

Synthesis (second level from top): Using old concepts to create new ideas; Design and Invention; Composing; Imagining; Inferring; Modifying; Predicting; Combining

Analysis (third level from top): Identifying and analyzing patterns; Organization of ideas; recognizing trends

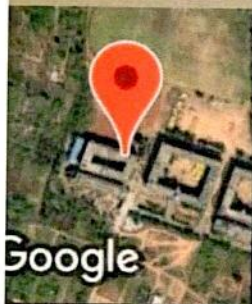
Application (fourth level from top): Using and applying knowledge; Using problem solving methods; Manipulating; Designing; Experimenting

Understanding (fifth level from top): Understanding; Translating; Summarising; Demonstrating; Discussing

Knowledge (bottom level): Recall of information; Discovery; Observation; Listing; Locating; Naming

Bloom's Taxonomy "Is A Way Of Distinguishing The Fundamental Questions Within The Education System. It Is Named After Benjamin Bloom, Who Chaired The Committee Of Educators That Devised The Taxonomy" It Has 6 Levels In Its Cognitive Domain: Knowledge, Comprehension, Application, Analysis, Synthesis And Evaluation.

GPS Map Camera



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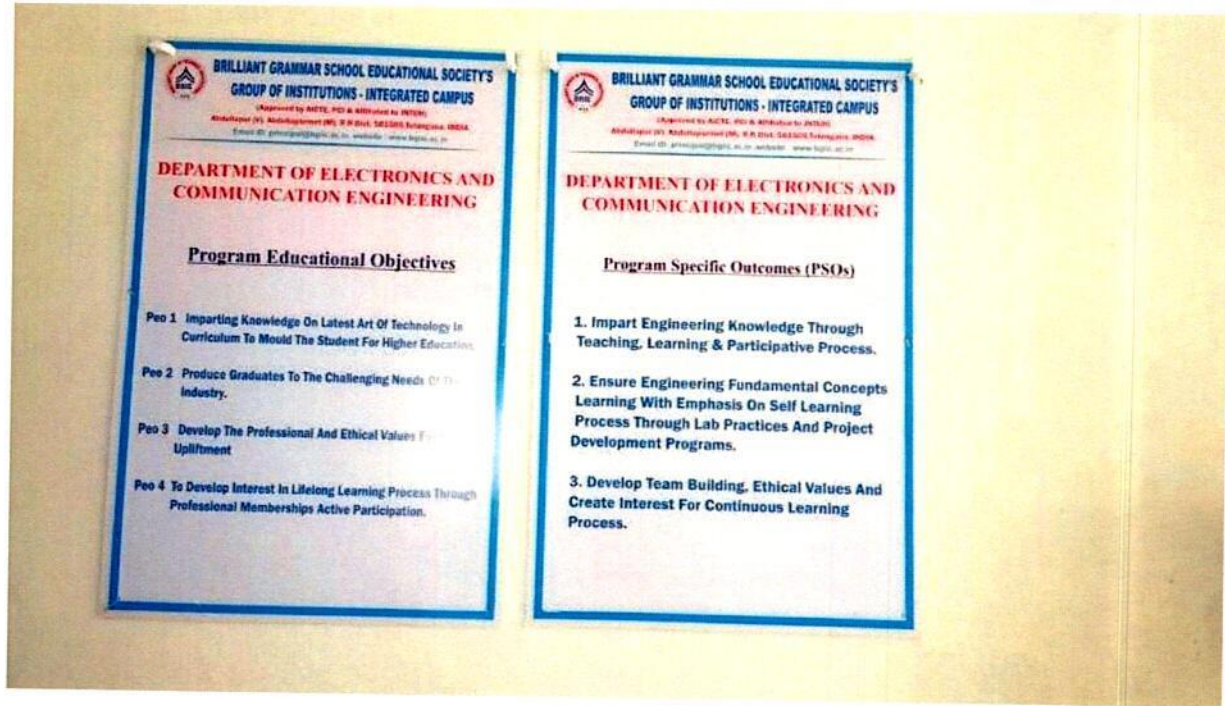


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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

BLOOM'S TAXONOMY DIGITAL PLANNING VERBS

REMEMBERING	UNDERSTANDING	APPLYING	ANALYZING	EVALUATING	CREATING
 Copying Defining Finding Locating Quoting Listening Googling Repeating Retrieving Outlining Highlighting Memorizing Networking Searching Identifying Selecting Tabulating Duplicating Matching Bookmarking Bullet-pointing	 Annotating Tweeting Associating Tagging Summarizing Relating Categorizing Paraphrasing Predicting Comparing Contrasting Commenting Journaling Interpreting Grouping Inferring Estimating Extending Gathering Exemplifying Expressing	 Acting Out Articulate Reenact Loading Choosing Determining Displaying Judging Executing Examining Implementing Sketching Experimenting Hacking Interviewing Painting Preparing Playing Integrating Presenting Charting	 Classifying Comparing Creating Distinguishing Evaluating Identifying Inferring Integrating Measuring Organizing Predicting Relating Selecting Synthesizing Using Verifying Writing	 Arguing Validating Testing Scoring Assessing Criticizing Commenting Debating Defending Detecting Experimenting Grading Hypothesizing Measuring Moderating Posting Predicting Rating Reflecting Reviewing Editorializing	 Blogging Building Animating Adapting Collaborating Composing Directing Devising Podcasting Wiki Building Writing Filming Programming Simulating Role Playing Solving Mixing Facilitating Managing Negotiating Leading

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**DEPARTMENT OF ELECTRONICS AND
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BLOOM'S TAXONOMY DIGITAL PLANNING VERBS

REMEMBERING	UNDERSTANDING	APPLYING	ANALYZING	EVALUATING	CREATING
<ul style="list-style-type: none"> Copying Defining Finding Locating Quoting Listening Googling Repeating Retrieving Outlining Highlighting Memorizing Networking Searching Identifying Selecting Tabulating Duplicating Matching Bookmarking Bullet-pointing 	<ul style="list-style-type: none"> Annotating Tweeting Associating Tagging Summarizing Relating Categorizing Paraphrasing Predicting Comparing Contrasting Commenting Journaling Interpreting Grouping Infering Estimating Extending Gathering Exemplifying Expressing 	<ul style="list-style-type: none"> Acting Out Articulate Reenact Loading Choosing Determining Displaying Judging Executing Examining Implementing Sketching Experimenting Hacking Interviewing Painting Preparing Playing Integrating Presenting Charting 	<ul style="list-style-type: none"> Classifying Comparing Working with Comparing Classifying Linking Mapping Model Building Supporting Applying Identifying Modeling Debate Brainstorming Illustrating Questioning Speculating Integrating Estimating Engineering 	<ul style="list-style-type: none"> Arguing Validating Testing Scoring Assessing Criticizing Commenting Debating Defending Detecting Experimenting Grading Hypothesizing Measuring Moderating Posting Predicting Rating Reflecting Reviewing Editorializing 	<ul style="list-style-type: none"> Blogging Building Animating Adapting Collaborating Composing Directing Devising Podcasting Wiki Building Writing Filming Programming Simulating Role Playing Solving Mixing Facilitating Managing Negotiating Leading

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**DEPARTMENT OF ELECTRONICS AND
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BLOOM'S TAXONOMY

Level	Associated Processes	Verbs
Evaluation	Analysing theories, Comparison of ideas, Evaluating outcomes, Solving, Judging, Reasoning, Rating	
Synthesis	Using old concepts to create new ideas, Design and invention, Comparing, Inspiring, Inferring, Modifying, Predicting, Combining	
Analysis	Identifying and analyzing patterns, Organization of ideas, Recognizing trends	
Application	Using and applying knowledge, Using problem-solving methods, Adapting, Designing, Experimenting	
Understanding	Understanding, Translating, Summarizing, Densitizing, Discussing	
Knowledge	Recall of information, Discovery, Observation, Listing, Locating, Naming	

Bloom's Taxonomy "is A Way Of Distinguishing The Fundamental Questions Within The Education System. It Is Named After Benjamin Bloom, Who Chaired The Committee Of Educators That Devised The Taxonomy" It Has 6 Levels In Its Cognitive Domain: Knowledge, Comprehension, Application, Analysis, Synthesis And Evaluation.

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Samples of Program Outcomes and Course Outcomes of all departments displayed in College Website in college website:

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Home About Us Programs Offered Facilities Academics Committees Placements Functional Units IQAD NAAC Gallery PC+ Contact Us

Civil Docket

- About Department
- Vision & Mission
- Objectives
- Work Culture & Flow
- Academic Calendar
- Head of the Department
- Faculty
- Dept R&D Wing
- Departmental Library
- E-Classroom

Civil Dept Program Outcomes

Vestibulum ante ipsum primis in faucibus orci luctus et ultrices posuere cubilia

- **Engineering Knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- **Problem Analysis:** Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- **Design/Development of Solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
- **Conduct Investigations of Complex Problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- **Modern Tool Usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT

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EEE Docket

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- Faculty
- Dept R&D Wing
- Departmental Library
- E-Classroom

EEE Dept Program Outcomes

Vestibulum ante ipsum primis in faucibus orci luctus et ultrices posuere cubilia

- **Engineering Knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- **Problem Analysis:** Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- **Design/Development of Solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
- **Conduct Investigations of Complex Problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- **Modern Tool Usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT

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Mechanical Docket

- About Department
- Vision & Mission
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- Faculty
- Dept R&D Wing
- Departmental Library
- E-Classroom

Mechanical Dept Program Outcomes

Vestibulum ante ipsum primis in faucibus orci luctus et ultrices posuere cubilia

- **Engineering Knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- **Problem Analysis:** Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
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- **Modern Tool Usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT

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website: www.bgiic.ac.in, E-mail : principal@bgiic.ac.in, principal.7q@gmail.com Cell:9442263457

[Handwritten Signature]

DIRECTOR
Brilliant Grammar School
Educational Society's Group
of Institutions-Integrated Campus (7)
Abdullapur (V), Abdullapurmet (M),
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Abdullapur (V), Abdullapurmet (M), R.R Dist. Hyderabad – 501505

website: www.bgic.ac.in, E-mail : principal@bgic.ac.in, principal.7q@gmail.com Cell:9442263457



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Abdullapur (V), Abdullapurmet (M), R.R Dist. Hyderabad – 501505

website: www.bgiic.ac.in, E-mail : principal@bgiic.ac.in, principal.7q@gmail.com Cell:9442263457

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CSE Dept Program Outcomes

Vestibulum ante ipsum primis in faucibus orci luctus et ultrices posuere cubilia

- **Engineering Knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- **Problem Analysis:** Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
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CSE Dept Program Outcomes

Vestibulum ante ipsum primis in faucibus orci luctus et ultrices posuere cubilia

- **Engineering Knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- **Problem Analysis:** Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
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- **Conduct Investigations of Complex Problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
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College Code: 7Q

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Abdullapur (V), Abdullapurmet (M), R.R Dist. Hyderabad – 501505

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Humanity & Sciences Docket

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- Slow Learners Monitoring Cell

Humanities and Sciences Dept Program Outcomes

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- **Engineering Knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
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B.Pharmacy Docket

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- Head of the Department
- Faculty
- Dept R&D Wing
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B.Pharmacy Dept Program Outcomes

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- **Engineering Knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
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M. Pharmacy (Pharmaceutics) Program Outcomes

Vestibulum ante ipsum primis in faucibus orci luctus et ultrices posuere cubilia

- **Engineering Knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
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website: www.bgiic.ac.in, E-mail : principal@bgiic.ac.in, principal.7q@gmail.com Cell:9442263457

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Department:		COMPUTER SCIENCE AND ENGINEERING					
<u>Course Outcome Attainment - Internal Assessments</u>							
Name of the Faculty:		Mrs.T.NEETHA		Academic Year:		2018-19	
Branch & Section:		cse		Exam:		MID - I	
Course:		DATA STRUCTRES THROUGH C++		Year/Semester:		II/I	
Sl.No	Roll Number	Question No.				Objective	Assignment
		1	2	3	4		
Maximum Marks		5	5	5	5	10	5
1	157Q1A0576	5				10	5
2	167Q1A0536		5		3	5	1
3	167Q1A0541	5	5			3	2
4	167Q1A0551	4			3	7	0
5	177Q1A0501	5			4	7	5
6	177Q1A0503			2	4	6	5
7	177Q1A0506			5		5	5
8	177Q1A0507	5		3		8	2
9	177Q1A0508	5			5	5	5
10	177Q1A0511	4	4			7	3
11	177Q1A0512	5		4		7	5
12	177Q1A0516		4		2	8	4
13	177Q1A0521	4		5		9	5
14	177Q1A0522	3		5		7	1
15	177Q1A0523	4		5		7	3
16	177Q1A0524		5	4		9	5
17	177Q1A0532	4			4	8	2
18	177Q1A0533	4		5		9	5
19	177Q1A0534		1	3		5	5
20	177Q1A0535	5	4			8	4



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21	177Q1A0536	3	4			10	5
22	177Q1A0539			3	4	7	5
23	177Q1A0541	4		3		8	2
24	177Q1A0543			4	3	7	5
25	177Q1A0544	4	5			8	3
26	177Q1A0545		3	4		7	5
27	177Q1A0548	4	3			5	2
28	177Q1A0550	4			5	7	5
29	177Q1A0551	5		3		7	4
30	177Q1A0552		5	5		8	5
31	177Q1A0553	3	5			7	4
32	177Q1A0554		4	4		8	0
33	177Q1A0555	5		5		8	5
34	177Q1A0556		4	3		8	4
35	177Q1A0557	5		5		5	5
36	177Q1A0558			3	2	8	4
37	177Q1A0559	5		4		7	5
38	177Q1A0560	5		3		5	2
39	177Q1A0561		5		4	5	5
40	177Q1A0564	5		3		7	4
41	177Q1A0568	4	5			8	4
42	177Q1A0569		5	4		9	5
43	177Q1A0570	3		4		5	3
44	177Q1A0571	5			5	8	3
45	177Q1A0573	4			4	6	4
46	177Q1A0576		2	3		5	5
47	177Q1A0577	3	5			9	5
48	177Q1A0578	5		3		9	5
49	177Q1A0579		4		5	5	3
50	187Q1A0501	5		5		8	4
51	187Q1A0502	2	5			4	3
52	187Q1A0503	5		2		3	4
No. of students attempted		35	22	30	15	52	52
Max Marks Question wise		5	5	5	5	10	5



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Threshold 50%	2.5	2.5	2.5	2.5	5	2.5
No. of Students above threshold	34	20	28	13	49	42
% of Students > Target Score	97.15	90.91	93.34	86.67	94.24	80.77
Attainment Level	3	3	3	3	3	3

Attainment Level 1: 40% students score more than threshold
Attainment Level 2: 50% students score more than threshold
Attainment Level 3: 60% students score more than threshold

Course Outcome Mapping with each Question						
CO's	Question No				Objective	Assignment
	1	2	3	4		
Course outcome - 1	y				y	y
Course outcome - 2		y	y		y	y
Course outcome - 3				y	y	y
Course outcome - 4						
Course outcome - 5						

Course Outcome Attainment based on Exam Questions in terms of percentage of total students when mapped to each question						
CO's	Question No				Objective	Assignment
	1	2	3	4		
Course outcome - 1	3				3	3
Course outcome - 2		3	3		3	3
Course outcome - 3				3	3	3
Course outcome - 4						



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Course outcome - 5					
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Course Outcome Attainment based on Exam Questions in terms of percentage of total students when mapped to each question				
CO's	Subjective	Objective	Assignment	Attainment Level
Course outcome - 1	3.00	3.00	3.00	3.00
Course outcome - 2	3.00	3.00	3.00	3.00
Course outcome - 3	3.00	3.00	3.00	3.00
Course outcome - 4				
Course outcome - 5				

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Department:		CSE					
Course Outcome Attainment - Internal Assessments							
Name of the Faculty:		T.NEETHA		Academic Year:		2018-2019	
Branch & Section:		CSE		Exam:		MID - II	
Course:		DATA STRUCTRES THROUGH C++		Year/Semester:		II/I	
Sl.No	Roll Number	Question No.				Objective	Assignment
		1	2	3	4		
Maximum Marks		5	5	5	5	10	5
1	157Q1A0576	5		5		2	5
2	157Q1A0536	4		3		6	3
3	167Q1A0541	5	5			5	5
4	167Q1A0551	5			5	4	3
5	177Q1A0501	5	5			6	5
6	177Q1A0503	4		5		4	4
7	177Q1A0506		4		5	2	5
8	177Q1A0507		4	3		6	4
9	177Q1A0508		5	5		8	5
10	177Q1A0511		5		4	4	5
11	177Q1A0512	5			5	5	5
12	177Q1A0516	5		5		5	2
13	177Q1A0521	4		4		8	5
14	177Q1A0522	5			4	6	5
15	177Q1A0523	3		4		8	2
16	177Q1A0524	3			5	8	4
17	177Q1A0532		4	4		5	5
18	177Q1A0533	5			3	7	5
19	177Q1A0534	4		4		6	2
20	177Q1A0535	5	4			6	5
21	177Q1A0536		5		5	8	4
22	177Q1A0539	5		4		5	4
23	177Q1A0541		4	3		7	5



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24	177Q1A0543	5	5			5	5
25	177Q1A0544	5			5	8	5
26	177Q1A0545	5		5		5	5
27	177Q1A0548		5		3	5	3
28	177Q1A0550		5		5	7	3
29	177Q1A0551		5		2	7	3
30	177Q1A0552	4		5		8	3
31	177Q1A0553		3		4	9	2
32	177Q1A0554	3			5	8	0
33	177Q1A0555	5		3		5	4
34	177Q1A0556		5		4	7	2
35	177Q1A0557	3			5	5	4
36	177Q1A0558			5	5	4	4
37	177Q1A0559	4	5			8	4
38	177Q1A0560			5		5	5
39	177Q1A0561		3	4		7	3
40	177Q1A0564		5		5	8	5
41	177Q1A0568		4		4	4	4
42	177Q1A0569	5			4	9	5
43	177Q1A0570	2	3			4	5
44	177Q1A0571	5			3	4	5
45	177Q1A0573			3	3	5	5
46	177Q1A0576	4	1			4	5
47	177Q1A0577	5			3	7	3
48	177Q1A0578	3	4			8	3
49	177Q1A0579		5	3		3	5
50	187Q1A0501	3	2			8	1
51	187Q1A0502	2		3		6	3
52	187Q1A0503	1		5		3	5
No. of students attempted		33	25	22	23	52	52
Max Marks Question wise		5	5	5	5	10	5
Threshold 50%		2.5	2.5	2.5	2.5	5	2.5
No. of Students above threshold		30	23	22	22	40	45
% of Students>Target Score		90.91	92	100	95.66	76.93	86.54
Attainment Level		3	3	3	3	3	3



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Attainment Level	1:	40% students score more than threshold
Attainment Level	2:	50% students score more than threshold
Attainment Level	3:	60% students score more than threshold

Course Outcome Mapping with each Question						
CO's	Question No				Objective	Assignment
	1	2	3	4		
Course outcome - 1						
Course outcome - 2						
Course outcome - 3	y				y	y
Course outcome - 4		y	y		y	y
Course outcome - 5				y	y	y

Course Outcome Attainment based on Exam Questions in terms of percentage of total students when mapped to each question						
CO's	Question No				Objective	Assignment
	1	2	3	4		
Course outcome - 1						
Course outcome - 2						
Course outcome - 3	3				3	3
Course outcome - 4		3	3		3	3
Course outcome - 5				3	3	3

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website: www.bgiic.ac.in, E-mail : principal@bgiic.ac.in, principal.7q@gmail.com Cell:9442263457

Course Outcome Attainment based on Exam Questions in terms of percentage of total students when mapped to each question				
CO's	Subjective	Objective	Assignment	Attainment Level
Course outcome - 1				
Course outcome - 2				
Course outcome - 3	3.00	3.00	3.00	3.00
Course outcome - 4	3.00	3.00	3.00	3.00
Course outcome - 5	3.00	3.00	3.00	3.00

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Department:	COMPUTER SCIENCE AND ENGINEERING		
Course Outcome Attainment External Examination			
Name of the Faculty:	Mrs.T.NEETHA	Academic Year:	2021-22
Branch & Section:	CSE	Exam:	EXTERNAL
Course:	DATA STRUCTRES THROUGH C++	Year/Semester :	II/I
S.NO.	HALLTICKET NO	TOTAL(Max.points:10)	
1	157Q1A0576	0	
2	157Q1A0536	0	
3	167Q1A0541	0	
4	167Q1A0551	0	
5	177Q1A0501	5	
6	177Q1A0503	5	
7	177Q1A0506	0	
8	177Q1A0507	5	
9	177Q1A0508	7	
10	177Q1A0511	5	
11	177Q1A0512	6	


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12	177Q1A0516	5
13	177Q1A0521	7
14	177Q1A0522	6
15	177Q1A0523	5
16	177Q1A0524	7
17	177Q1A0532	6
18	177Q1A0533	6
19	177Q1A0534	0
20	177Q1A0535	6
21	177Q1A0536	6
22	177Q1A0539	6
23	177Q1A0541	0
24	177Q1A0543	0
25	177Q1A0544	7
26	177Q1A0545	5
27	177Q1A0548	0
28	177Q1A0550	5
29	177Q1A0551	0
30	177Q1A0552	5
31	177Q1A0553	5
32	177Q1A0554	5
33	177Q1A0555	5
34	177Q1A0556	5
35	177Q1A0557	5
36	177Q1A0558	5
37	177Q1A0559	6
38	177Q1A0560	5
39	177Q1A0561	5
40	177Q1A0564	5
41	177Q1A0568	5
42	177Q1A0569	6
43	177Q1A0570	0
44	177Q1A0571	5
45	177Q1A0573	5
46	177Q1A0576	0
47	177Q1A0577	5



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48	177Q1A0578	5
49	177Q1A0579	0
50	187Q1A0501	0
51	187Q1A0502	-1
52	187Q1A0503	0

No. of students who attempted the subject	52
Max. Marks	75
Thresold 40%	30
No. of students who scored more than the target score	36
Percentage of students who scored more than target score	69.23
Overall External Attainment level	3

Attainment Level	1:	40% students score more than threshold
Attainment Level	2:	50% students score more than threshold
Attainment Level	3:	60% students score more than threshold

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End of Course Evaluation Form					
Subject		:	DATA STRUCTURE THROUGH C++		
Section		:	cse		
Academic Year		:	2018-19		
Faculty Name		:	Mrs.T.NEETHA		
Designation		:	Assistant Professor		
COURSE OUTCOMES: (AT THE END OF THE COURSE THE STUDENT IS ABLE TO)		To a great extent (High)	To a moderate extent (Medium)	To some extent (Low)	Out of 3
		(3)	(2)	(1)	
1	Ability to choose appropriate data structures to represent data items in real world problems.	41	11	0	2.79
2	Ability to analyze the time and space complexities of algorithms.	44	8	0	2.85
3	Ability to design programs using a variety of data structures such as stacks, queues, hash tables, binary trees, search trees, heaps, graphs, and B-trees.	45	7	0	2.87
4	Able to analyze and implement various kinds of searching and sorting techniques.	39	10	3	2.69
5	Ability to analyze various searching operations and graphs	42	9	1	2.79
Overall Rating		Out of 3:			2.8



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Department:	COMPUTER SCIENCE AND ENGINEERING		
<u>Overall Course Outcome Attainment</u>			
Name of the Faculty:	Mrs.T.NEETHA	Academic Year:	2018-2019
Branch & Section:	CSE	Exam:	Internal & External
Course:	DATA STRUCTRES THROUGH C++	Semester:	II-I

Course Outcomes	1st Internal Exam	2nd Internal Exam	Internal Exam(Avg.)	University Exam	Overall Attainment
Course outcome - 1	3.00	-	3.00	3.00	3
Course outcome - 2	3.00	-	3.00	3.00	3
Course outcome - 3	3.00	3.00	3.00	3.00	3
Course outcome - 4	-	3.00	3.00	3.00	3
Course outcome - 5	-	3.00	3.00	3.00	3
Average			3.00	3.00	3

Final CO Direct Attainment for the Subject	3
Final CO Indirect Attainment for the Subject	2.8
Final CO Attainment for the Subject	2.96

Similarly CO attainment is calculated for all theory courses for corresponding academic years respectively

CO attainment level for courses other than Theory:

a) Laboratory:

Continuous Internal Evaluation:

The internal evaluation is based on session wise performance of experiment and viva voce, Observation, record and internal examination. The final internal marks are considered for CIE, and CO level for CIE attainment is decided upon the percentage of students who score more than 55% of the



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maximum internal marks, i.e., 13.75 out of 25 is used to decide the CO attainment level and is uniform for all CO's.

Semester End University Examination Evaluation (SEE): SEE Lab exam is evaluated for 75 marks. In SEE of the lab, % of students who score over 40% of the maximum marks, i.e. 30 out of 75 marks, is used to decide the CO attainment level and is uniform for all CO's.

b) Seminar:

For seminars, the assessment is based only on internal evaluation. The marks obtained in seminar is used to decide the % of students who scored more than 55% of maximum marks, and this % is used for determining corresponding CO attainment level. This Attainment level is construed as uniform for all COs of the course.

c) Industry Oriented Mini Project: For Industry Oriented Mini Project, the assessment is based only on External evaluation. The marks obtained in Industry Oriented Mini Project is used to decide the % of students who scored more than 40% of maximum marks, and this % is used for determining corresponding CO attainment level. This Attainment level is construed as uniform for all COs of the course.

d) Project: Continuous Internal Evaluation:

The internal marks for project (25) are the total of marks allotted in Project review, final presentation, and by project guide. The final internal marks are considered for CIE, and CO level for CIE attainment is decided upon the percentage of students who score more than 55% of the maximum internal marks, i.e., 13.75 out of 25 is used to decide the CO attainment level and is uniform for all Cos

Semester End University Examination Evaluation (SEE):

The external evaluation is by award of Grade (Excellent/Very Good/Satisfactory /Poor). These grades are considered for SEE, and CO level for SEE attainment is decided upon the percentage of students who got Excellent/Very Good/Good to the number of students appeared is used to decide the CO attainment level and is uniform for all COs. The average value of the CO levels for the course are then used for mapping the PO attainments, using the array of target PO values for the course.

Attainment of Program Outcomes and Program Specific Outcomes:

Direct assessment of POS and PSOS for a course is obtained by mapping the respective CO value of Course Outcome attainment with the mapping of the target or expected POS and PSOs for the particular course.

The procedure adapted for calculating the attainment of Course Outcomes for a Theory course is described with an example for the course Python Programming the CO values arrived from CIE and SEE for the course Python Programming (CS751PC) for



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Indirect Assessment Tools:

The PO/PSOs are attained indirectly by taking different surveys. These surveys are also having equal weightages

For overall PO/PSO attainment.

1. Program Exit Survey
2. Alumni Survey
3. Employer Feedback Survey

Frequency of Data Collection:

Table: Data Frequency

S.No	Assessment Tool	Frequency of data collection
1.	Program Exit Survey	Once a year
2.	Alumni Survey	Once a year
3.	Employer Feedback Survey	Once a year

Indirect Assessment Tools:

Alumni Survey: A feedback is collected on POS & PSOS from alumni students. It contributes towards the weightage of PO and PSO attainment. This survey is conducted by Alumni coordinator with the passed out students. Alumni coordinator collects both Alumni feedback forms filled by passed out student.

Employer Feedback Survey: A feedback is collected on Vision & Mission, PEOs, and POs & PSOS. It is an indirect assessment tool which contributes towards the weightage of PO and PSOS. It is conducted after one year of service completed by the graduates from joining those respective organizations.



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Program Exit Survey: The Program graduate exit survey is collected at the end of the program. The objective of the survey is to know the level of confidence of each POs & PSOs that a graduate possess by the end of the program.

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STUDENT-EXIT FEEDBACK

Hall Ticket No	13361AD560
Name of the student	P. Sai Vivek
Programme Name	B.Tech.
Phone Number	9442319982
Email ID	sai.vivek.530@gmail.com

Please answer the questions below to help the authorities for improving the methodology of teaching learning process. Tick mark against appropriate the block.

Please answer the following Questions	Evaluate the following		
	Excellent	Good	Satisfactory
	3	2	1
1) Can You apply the basic principles of mathematics, science and engineering to solve the complex engineering problems?		✓	
2) How effectively do you analyze the problems of engineering?		✓	
3) Can you design solutions for complex problems from your academic knowledge for sustainable growth?			✓
4) How far you are able to investigate a problem by utilizing research based knowledge and methods which you have learnt from academics in research oriented way	✓		
5) Have you learnt about current technologies and modern engineering tools?		✓	
6) Can you serve the society with your knowledge achieved from your studies?		✓	
7) Have you learnt any basic skills to survive in the society?	✓		

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College Code: 7Q

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8) Have you come to know ethical values from academics?	✓		
9) Will your efforts in academic projects help you out to work in diverse teams?		✓	
10) How far your academics helped you to enhance your communication skills?	✓		
11) How did you demonstrate and apply the knowledge acquired from your academics at the time of project documentation and implementation?	✓		
12) Can you learn independently throughout your life for career development?	✓		
13) Have you learnt to develop software for quality products independently / as a group applying modified engineering principles?		✓	
14) Did your academics give you enough knowledge to write competitive exams for successful career?	✓		

Your feedback is valuable, which will lead to achieve further improvement in the system

Write a few words about college environment that made you graduate engineering

Date: 23/07/2022

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Student
Signature

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FEEDBACK FROM EMPLOYER

Our Institute is following outcome base education. The assessment of the outcome has to be through a survey. The following questions need your valued consideration. Please spend time in answering them.

Employee Name:	Y. Uma
Mailing Address:	yathasravanam@gmail.com

S.No	Please answer the following Questions	POs & PSOs	Evaluate the following		
			Excellent	Good	Satisfactory
1	How do you find our students in applying the knowledge of maths, science in the solution of complying engineering problems.	PO1: Engineering Knowledge	3	2	1
		PO2: Problem Analysis	3		
		PO3: Development of Solution	3		
		PO4: Investigations of Complex Problem	2		
		PO5: Modern Tools Usage	2		
2	How capable are our students to learn new skills.	PO6: Engineer & Society	3		
		PO7: Environment & Sustainability	3		
3	How do you rate our students with respect to their ethical and moral values.	PO8: Ethics		2	
4	How do you rate our students with respect to individual and team work.	PO9: Individual & Teamwork		2	
5	How do you rate our students with respect to communication skills.	PO10: Communication	3		
6	How capable are our students in managing the give task.	PO11: Finance & Project Management	3		
7	How do you find our curriculum with respect to industry.	PO12: LifeLong Learning	3		
8	How do you rate our students capabilities in developing new apps.	PSO1: Expertise on the contemporary skills towards development of innovative apps and firmware products.	3		
9	How do you our students in giving in solution to problems with varying complexities.	PSO2: Capable to participate the construction of software systems of varying complexity.	3		

Suggestion/Comment:

1. Your feedback is tremendously useful to improve BRIGIC learning environment
2. Thank you for taking time to answer our question. Your feedback is tremendously valuable to us.

Date: 06/07/2022
 Signature:
 DIRECTOR
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Signature:

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ALUMNI SURVEY FORMAT
(Indirect Assessment)

Thanking you for taking time to respond to this survey for CSE alumni. Your ideas and opinions are very important to our programs and our efforts to continuously improve these programs. You may use available blank space at the end for comments.

Name of the Alumni:	G. Prathibha/64618053
Year of Graduation:	2016-20
Branch:	CSE
Present address:	
Email-ID:	prathibha20@gmail.com
Present Occupation/Please Send appropriate letter copy to the HOD at the earliest	
Present Occupation/Please Send appropriate letter copy to the HOD at the earliest	

S.No	Please answer the following Questions	Evaluate the following		
		Excellent	Good	Satisfactory
1	How effectively the engineering knowledge is helpful in your real life?	3		
2	How far did you apply mathematical formulas and algorithmic principles to design and implement computer based system?	3		
3	How far your studies helped you to meet the specific needs of society?		2	

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Suggestion/Comments:

- Your feedback is tremendously useful to improve BRIGIC learning environment
- Thank you for taking time to answer our question. Your feedback is tremendously valuable to us.

Date: 21/07/2022

Signature: *Prathibha*

Prathibha
DIRECTOR
Brilliant Grammar School
Educational Society's Group
of Institutions-Integrated Campus (V)
Abdullapur (V), Abdullapurmet (M),
R.R. Dist-501505

Prathibha
DIRECTOR
Brilliant Grammar School
Educational Society's Group
of Institutions-Integrated Campus (V)
Abdullapur (V), Abdullapurmet (M),
R.R. Dist-501505.



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Program Level CO-PO Mapping

BTECH I YEAR I SEM(A.Y.2017-2018)

SNO	COURSE CODE	CODE	NAME	PROGRAM OUTCOMES											
				PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
1	MA101BS	C101	Mathematics-I	3	3	3	2	2							3
2	CH102BS	C102	Engineering Chemistry	3	3	3	2	2							2.8
3	PH103BS	C103	Engineering Physics-I	3	3	2.8	2	2.6							3
4	EN104HS	C104	Professional Communication in English	3	3		2.2	2.6			2.6	3	3		3
5	ME105ES	C105	Engineering Mechanics	2.8	2.8	2.6	1.8	1.6	1.6	1.6	2	2.6	1.4	1.4	3
6	EE106ES	C106	Basic Electrical nad Elcectronics Engineering	3	3	2	2.2	2.6	2		2.2	2	1.8		3
7	EN107HS	C107	English Language Communication Skills Lab	3	3		2.2	2.6			2.6	3	3		3
8	ME108ES	C108	Engineering Workshop	2.8	2.8		1.8	1.6	1.6	1.6	2	2.6	1.4	1.4	3

BTECH I YEAR II SEM

SNO	COURSE CODE	CODE	NAME	PROGRAM OUTCOMES											
				PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
9	PH201BS	C110	Engineering Physics-II	3	3	c	1.6	2.4							2.8
10	MA202BS	C121	Mathematics-II	2.8	2.6	2.6	1.6	1.6							2.6
11	MA203BS	C131	Mathematics-III	2.4	2.4	2.4	1.6	1.6							2.4
12	CS204ES	C141	Computer Programming in C	2.8	2.8	2	2	2.6	2		2	2	2		2.8
13	ME205ES	C151	Engineering Graphics	2.8	2.6	2.6	2.2	1.6	2.2	1.8	2.2	2.4	1.6	1.4	3
14	CH206BS	C161	Engineering Chemistry Lab	2.8	2.8	2.4	1.6	1.6							2.6
15	PH207BS	C171	Engineering Physics Lab	2.6	2.6	2.6	1.8	2.4							2.6
16	CS208ES	C181	Computer Programming in C Lab	2.8	2.8	2.2	2.2	2.6	2		2	2	2		2.8

BTECH II YEAR I SEM(A.Y.2018-2019)

17	MA301BS	C211	Mathematics – IV	2.4	2.4	2.4	1.6	1.6							2.4
18	CS302ES	C212	Data Structures through C++	2.8	2.8	2.8	2.2	2	2.4	2.4		2	2	2.2	3
19	CS303ES	C213	Mathematical Foundations of Computer Science	2.4	3	2.6			1.4	1.2			1.6		1.6

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College Code: 7Q

20	CS304ES	C214	Digital Logic Design	2.8	2.7	2.6	2	2.4	2.4	2	2	2	2.4	2.4	2.6
21	CS305ES	C215	Object Oriented Programming through Java	3	3	2.4	2.2	2.2	2	2	2	2	1.6	2	2
22	CS306ES	C216	Data Structures through C++ Lab	3	2	2.5	2								
23	CS307ES	C217	IT Workshop	1.8	2	2.2	1.8	2	2	2	2	2	1.6	2	1.8
24	CS308ES	C218	Object Oriented Programming through Java Lab	2.4	2.4	1.3	1.8	2	2	2	2	1.8	2	2.4	1.6
BTech II Year II SEM															
25	CS401BS	C221	Computer Organization	3	2.2	2.4	2.2	2	2	2	2	2	2.2	2	2
26	CS402ES	C222	Database Management Systems	2.4	2.2	2	2.4	2	2	2	2	2	2.4	2.8	2
27	CS403ES	C223	Operating Systems	2.2	2.2	2.2	2.4	1.8	2.2	1.8	2	2	2.6	2	2
28	CS404ES	C224	Formal Languages and Automata Theory	2.4	2.2	2	2	2	2	2	2	2	2	2	2
29	SM405MS	C225	Business Economics and Financial Analysis	1	1	2	1	2	2	2	2	3	3	2	2
30	CS406ES	C226	Computer Organization Lab	2.8	2	2.8									2.6
31	CS407ES	C227	Database Management Systems Lab	2.2	2.2	2.2	2.3	2.33					1.8		
32	CS408ES	C228	Operating Systems Lab	2	2	3	2						2.2		
BTech III Year I SEM (AY.2019-2020)															
33	CS501PC	C321	Design and Analysis of Algorithms	2.6	2.4	2.2	2.4	2.6					2.4	2.6	2.2
34	CS502PC	C322	Data Communication and Computer Networks	2.6	2.8	2.6							2.4	2.2	2.6
35	CS503PC	C323	Software Engineering	2.6	2.6	2.4	2.6	2.5	1.8				2.6	2.6	2.5
36	SM504MS	C324	Fundamentals of Management	1.0	1.0	2.0	1.0	2.0	2.0	2.0	2.0	3.0	3.0	2.0	2.0
37	EC511OE	C325	Principles of Electronic Communications	3	3	1	1								3
38	CS505PC	C326	Design and Analysis of Algorithms Lab	2.6	2.2	2.8	2.4	2.6					2.4	2.6	2.2
39	CS506PC	C327	Computer Networks Lab	2.8	2.4	2.8	2.2	2.0					2.6	2.2	2.0
40	CS507PC	C328	Software Engineering Lab	2.6	2.6	2.4	2.6	2.5	1.8				2.6	2.6	2.5

DIRECTOR
 Brilliant Grammar School
 Educational Society's Group
 of Institutions-Integrated Campus (7Q)
 Abdullapur (V), Abdullapurmet (M),
 R.R. Dist-501505.

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Abdullapur (V), Abdullapurmet (M), R.R Dist. Hyderabad – 501505

website: www.bgic.ac.in, E-mail : principal@bgic.ac.in, principal.7q@gmail.com Cell:9442263457

College Code: 7Q

BTech III YEAR II SEM												
	C422	C423	C424	C425	C426	C427	C428	C429				
	Compiler Design	Web Technologies	Cryptography and Network Security	Principles of computer communication and networks	Design Patterns	Cryptography and Network Security Lab	Web Technologies Lab	Advanced English Communication Skills Lab				
41	CS601PC	C422	C423	C424	C425	C427	C428	C429	EN606HS	C429		
	2.6	2.4	2.4	2.4	2.6	2.2	2.6	3				
42	CS602PC	C423	C424	C425	C426	C427	C428					
		2.2	2.2	2.2	2.2	2.2	2.4					
43	CS603PC	C423	C424	C425	C426	C427	C428					
	2	2.4	2.4	2.4	2.6	2.2	2.6					
44	EC621OE	C423	C424	C425	C426	C427	C428					
	1.0			1	2.6	2.2	2.6					
45	CS612PE	C423	C424	C425	C426	C427	C428					
					2.6	2.2	2.6					
46	CS604PC	C423	C424	C425	C426	C427	C428					
	2				2.2	2.2	2.6					
47	CS605PC	C423	C424	C425	C426	C427	C428					
	2.4				2.2	2.2	2.6					
48	EN606HS	C423	C424	C425	C426	C427	C428	C429				
					3	3						
BTech IV YEAR I SEM(2020-2021)												
49	CS701PC	C521	C522	C523	C524	C525	C526	C527	C528	C529		
	2.2	1.5	1.5	2.1	3	2	2.4	2	2.3	2		
50	CS702PC	C521	C522	C523	C524	C525	C526	C527	C528	C529		
	1.3	1.1	1.3	2.1	3	2	2.6	2.2	2.3	2		
51	CS721PE	C521	C522	C523	C524	C525	C526	C527	C528	C529		
	1.8	2.1	2.1	2.1	3	2	2.6	2.2	2.3	2		
52	CS734PE	C521	C522	C523	C524	C525	C526	C527	C528	C529		
	1	2	2.3	2.1	3	2	2.6	2.2	2.3	2		
53	CS742PE	C521	C522	C523	C524	C525	C526	C527	C528	C529		
		2	3	2.1	3	2	2.6	2.2	2.3	2		
54	CS703PC	C521	C522	C523	C524	C525	C526	C527	C528	C529		
	3	2.4	2	2.2	2.6	2	2.6	2.2	2.3	2		
55	CS751PC	C521	C522	C523	C524	C525	C526	C527	C528	C529		
		2	2.2	2.4	2.2	2	2.6	2.2	2.3	2		
56	CS705PC	C521	C522	C523	C524	C525	C526	C527	C528	C529		
	2	2.3	2	3	2	2	2.6	2.2	2.3	2		
57	CS706PC	C521	C522	C523	C524	C525	C526	C527	C528	C529		
		2	2	2.3	2	2	2.6	2.2	2.3	2		
BTech IV YEAR II SEM												
58	CE831OE	C631	C632	C633	C634							
	1.5	2.5	2.5	2.25	2.8							
59	CS852PE	C631	C632	C633	C634							
		2.5	2.2	2.25	2.3							
60	CS862PE	C631	C632	C633	C634							
	2.1	1.95	2.1	2.25	2.1							
61	CS801PC	C631	C632	C633	C634							
		1.78	2.1	2.25	2.3							
Average												
	2.7	2.19	2.1	2.25	2.3							



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Abdullapur (V), Abdullapurmet (M), R.R Dist. Hyderabad – 501505

website: www.bgiic.ac.in, E-mail : principal@bgiic.ac.in, principal.7q@gmail.com Cell:9442263457

PO ATTAINMENT LEVEL (2017-2022)

COURSE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Direct Attainment (Average)	2.42	2.32	2.38	2.39	2.08	1.79	1.78	2.76	2.58	1.78	2.19	2.79
Direct Attainment (80%Average)	1.936	1.856	1.904	1.912	1.664	1.432	1.424	2.208	2.064	1.424	1.752	2.232
Indirect Attainment	2.92	2.89	2.95	2.89	2.96	2.95	2.75	2.81	2.85	2.77	2.86	2.91
Indirect Attainment (20%)	0.58	0.57	0.59	0.57	0.59	0.59	0.55	0.56	0.57	0.55	0.57	0.58
Overall PO attainment (80+20)	2.516	2.426	2.494	2.482	2.254	2.022	1.974	2.768	2.634	1.974	2.322	2.812

S.No	CODE	Name	PSO		
			PSO1	PSO2	PSO3
B.TECH I YEAR					
1	C101	Mathematics-I	1.6	2	-
2	C102	Engineering Chemistry	2	2	-
3	C103	Engineering Physics-I	2	2	-
4	C104	Professional Communication in English	1.6	1.6	1.6
5	C105	Engineering Mechanics	1.6	1.6	1.2
6	C106	Basic Electrical and Electronics Engineering	1.6	1.6	1.6
7	C107	English Language Communication Skills Lab	1.6	1.6	1.6
8	C108	Engineering Workshop	1.6	1.6	-
9	C110	Engineering Physics-II	1.6	1.6	-
10	C121	Mathematics-II	1.6	2	1.4
11	C131	Mathematics-III	1.6	1.6	1.6
12	C141	Computer Programming in C	1.6	1.6	3
13	C151	Engineering Graphics	2	1.8	2.2
14	C161	Engineering Chemistry Lab	2	2.4	1.6
15	C171	Engineering Physics Lab	2	2	
16	C181	Computer Programming in C Lab	1.8	1.8	3
B.TECH II YEAR					
17	C211	Mathematics – IV	1.6	1.6	1.6
18	C212	Data Structures through C++	2.2	2.6	3



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19	C213	Mathematical Foundations of Computer Science	1.8	1.8	-
20	C214	Digital Logic Design	2.2	2.4	2.8
21	C215	Object Oriented Programming through Java	2.85	2.4	3
22	C216	Data Structures through C++ Lab	1.8		2
23	C217	IT Workshop	2.6	2.4	2.6
24	C218	Object Oriented Programming through Java Lab	2.2	2.4	2.6
26	C221	Computer Organization	2.8	2.6	2
27	C222	Database Management Systems	2.2	2.8	2.2
28	C223	Operating Systems	2.6	2.6	2.4
29	C224	Formal Languages and Automata Theory	2.8	2.5	
30	C225	Business Economics and Financial Analysis	2	3	3
31	C226	Computer Organization Lab	2.4	2	2.2
32	C227	Database Management Systems Lab	2.4	2.6	2
33	C228	Operating Systems Lab	2.2	2.4	2.6
		B.TECH III YEAR	2.8	2.4	3.0
35	C321	Design and Analysis of Algorithms	2.6	2.4	2.6
36	C322	Data Communication and Computer Networks	2.6	3	2.6
37	C323	Software Engineering	2	3	3
38	C324	Fundamentals of Management	2.5	2	2.8
39	C325	Computer Graphics	2.2	2.2	2.8
40	C326	Design and Analysis of Algorithms Lab	2.6	2.2	2.8
41	C327	Computer Networks Lab	2.6	2.2	2.0
42	C328	Software Engineering Lab	2.6	3	2.6
44	C422	Compiler Design	2.8	2.4	2.2
45	C423	Web Technologies	3	2.2	2.4
46	C424	Cryptography and Network Security	2.2	2	2
47	C425	Fundamentals of Robotics	2	2.2	2
48	C426	Design Patterns	2.6	2.4	3
49	C427	Cryptography and Network Security Lab	2.8	2.4	2.2
50	C428	Web Technologies Lab	3	2.4	2.8
51	C429	Advanced English Communication Skills Lab	3	-	-
		B.TECH IVYEAR			
52	C521	Data Mining	2.1	2.25	2.25
53	C522	Principles of Programming Languages	1.3	1.5	1.5
54	C523	Python Programming	1.65	1.95	2.25
55	C524	Distributed Systems	1.5	1.4	1.3
56	C525	Cloud Computing	3	3	3
57	C526	Data Mining Lab	2.4	2.2	2



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Abdullapur (V), Abdullapurmet (M), R.R Dist. Hyderabad – 501505

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58	C527	Python Programming Lab	2.2	2	2
59	C528	Industry Oriented Mini Project	2.3	2.2	2.5
60	C529	Seminar	2.5	2.5	2.5
61	C631	Organizational Behaviours	2	3	3
62	C632	Real-Time Systems	2	2.6	2.25
63	C633	Web Services and Service Oriented Architecture	2.1	2.1	
64	C634	Major Project	2	2	-
AVERAGE			1.8	2.8	2.4

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Brilliant Grammar School
Educational Society's Group
of Institutions-Integrated Campus (V,
Abdullapur (V), Abdullapurmet (M),
R.R. Dist. 501505.



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PSO ATTAINMENT LEVEL(2017-2018)			
COURSE	PSO1	PSO2	PSO3
Direct Attainment (Average)	1.8	2.8	2.4
Direct attainment (80% of Avg)	1.4	2.2	1.9
Indirect Attainment	2.92	2.93	2.91
Indirect Attainment (20%)	0.5	0.5	0.5
Overall PO Attainment (80+20)	1.9	2.7	2.4


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 Brilliant Grammar School
 Educational Society's Group
 of Institutions-Integrated Campus (700)
 Abdullapur (V), Abdullapurmet (M),
 R.R. Dist-501505.