





# CMR COLLEGE OF ENGINEERING & TECHNOLOGY

(AUTONOMOUS)

NAAC Accredited Institution with 'A' Grade  
Kandlakoya (V), Medchal Road, Hyderabad -501401.

CMRCET/ECE/BC-CELL/AY2018-19/CIR-01

Date: 10.05.2018

## CIRCULAR

All the members of Bridge Course cell committee of the college are requested to attend the meeting on 17.05.2018 in the Department of ECE, Room No: 214, BLOCK-II at 3:00 PM.

The Agenda of the meeting is:

- i) To Discuss about the SOP, Objectives, Roles & Responsibilities.
- ii) Events to be organized under Bridge Course cell.
- iii) For scheduling all the related activities without affecting the academic schedules.
- iv) To prepare budget for the events in current AY.

  
Convener

Bridge Course cell

  
HOD, ECE

Head of the Department  
Department of ECE  
CMR College of Engineering & Technology  
Kandlakoya, Hyderabad-501401.

Copy Submitted to: (1) The Secretary Garu – For your kind information Pl.

Copy to:

1. Principal
2. IQAC Coordinator
3. All HODS
4. Concerned Faculty



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## BRIDGE COURSE CELL (AY 2018-19)

### MINUTES OF MEETING

1. The Meeting was held on 17.05.2018 from 3.00 to 4:00 pm in the Department of ECE
2. The Convener welcomed all the committee members.
3. Discussed SOP with Objectives, Roles & responsibilities of the coordinators.
4. Discussed about the events to be conducted in the current AY.
5. Informed department coordinators to submit program schedule and budget for the current year.

### STANDARD OPERATING PROCEDURE OF BRIDGE COURSE CELL COMMITTEE

The intention of Bridge Course cell is to motivate the lateral entry students to gain knowledge and some engineering courses, to bridge the gap between the students who came from intermediate course and diploma course. To facilitate the lateral entry students, to get the basic knowledge in engineering mathematics, C programming and English language. A committee is formed for take over activities involved in BRIDGE COURSE CELL. Convener of committee is supposed to release the correspondence related to the activities to be conducted for a particular academic year duly approved by the IQAC coordinator before end of previous academic year. Chairman of committee release an office order in the month of May regarding the members of the committee for the next academic year.

### OBJECTIVES OF BRIDGE COURSE CELL

1. To facilitate the lateral entry students to get fundamental knowledge about some engineering courses where they are lagging.
2. To create awareness among the lateral entry students regarding engineering courses.
3. To bridge the gap between the students who came from intermediate course and diploma course.
4. To motivate the students to understand the importance of these engineering courses.

### Roles & Responsibilities of the committees

- ❖ To prepare BRIDGE COURSE programs schedule for the current AY.
- ❖ To prepare budget for the programs.
- ❖ To organize different programs in the department to facilitate the lateral entry students to gain confidence and knowledge about these courses.
- ❖ To motivate the students to attend these programs.

**List of faculty members attended the meeting**

S.No	Name of the member	Designation	Position
1.	Major. Dr. V. A. Narayana	Principal	Chairman
2.	Dr. D. Vijaya Kumar	Asst. Prof., ECE	Convener
3.	Mr. Y. Chitti Babu	Asst. Prof., ECE	Member
4.	Mr. G. Ravi Kumar	Asst. Prof., CSE	Member
5.	Mr. Ch. Shankara Rao	Asst. Prof., EEE	Member
6.	Mr. E. Sammaiah	Asst. Prof., MECH	Member
7.	Dr. J.Srinivasa Rao	Professor, CIVIL	Member
8.	Mr. L. Ramanjaneya	Asst. Prof., MBA	Member

  
Convener  
Bridge Course cell

  
HOD, ECE

Head of the Department  
Department of ECE  
CMR College of Engineering & Technology  
Kandlakoya, Hyderabad-501401.

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2. IQAC coordinator
3. HOD of all departments
4. Concerned Faculty



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To,  
IQAC Coordinator  
CMRCET

Date: 18.05.2018

Sub: Permission to organize different programs under Bridge Course cell in  
the A.Y:2018-19 – Reg.

Respected Sir,


As you are aware that, the Bridge Course cell organize every year different Bridge Course programs for our lateral entry students to facilitate the lateral entry students to get fundamental knowledge about some engineering courses where they are lagging. Herewith I am submitting the proposed list of programs at college level as well as department wise and tentative budget for the A.Y: 2018-19.

Hence, I request you to kindly approve the programs to be conducted and also sanction the budget to facilitate us with the resources for the successful completion of the programs under Bridge Course cell.

Encl. 1. List of programs department wise.

Thanking you,

  
Convener  
Bridge Course cell

  
HOD, ECE  
Head of the Department  
Department of ECE  
CMR College of Engineering & Technology  
Kandlakoya, Hyderabad-501401.



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## BRIDGE COURSE CELL

### List of programs to be conducted (AY 2018-19)

S.No.	Department	Name of the program to be conducted
1	ECE	Bridge Course on Computer Programming with C
2		Bridge Course on Basic Engineering Mathematics
3		Bridge Course on English
4	CSE	Bridge Course on Computer Programming with C
5		Bridge Course on Basic Engineering Mathematics
6		Bridge Course on English
7	EEE	Bridge Course on Computer Programming with C
8		Bridge Course on Basic Engineering Mathematics
9		Bridge Course on English
10	Mech	Bridge Course on Computer Programming with C
11		Bridge Course on Basic Engineering Mathematics
12		Bridge Course on English
13	Civil	Bridge Course on Computer Programming with C
14		Bridge Course on Basic Engineering Mathematics
15		Bridge Course on English
16	MBA	Bridge Course on Computer Programming with C
17		Bridge Course on Basic Engineering Mathematics
18		Bridge Course on English

  
Convener

Bridge Course cell

  
HOD, ECE

Head of the Department  
Department of ECE  
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## BRIDGE COURSE CELL

### Strategic Perspective Plan for the Academic Year 2018-19

All the members of Bridge Course cell committee of the college are requested to prepare the syllabus for below mentioned subjects.


Bridge courses conducting in different departments of the college.

S.No	Proposed date of the event	Name of the event	Budget for the event	Details
1	June – October 2018	Bridge Course on Computer Programming with C	NIL	To facilitate the lateral entry students to get fundamental knowledge about Computer programming with C. To bridge the gap between the students who came from intermediate course and diploma course.
2	June – October 2018	Bridge Course on Basic Engineering Mathematics	NIL	To facilitate the lateral entry students to get fundamental knowledge about Basic engineering mathematics. To bridge the gap between the students who came from intermediate course and diploma course.
3	June – October 2018	Bridge Course on English	NIL	To facilitate the lateral entry students to get fundamental knowledge about English language. To bridge the gap between the students who came from intermediate course and diploma course.
4	June – October 2018	Bridge Course on Accounting for managers	NIL	To facilitate the first year MBA students to get fundamental knowledge about Accounting for managers.
5	June – October 2018	Bridge Course on Business statistics	NIL	To facilitate the first year MBA students to get fundamental knowledge about Business statistics.

1. Bridge course committee meeting is conducted at the beginning of each academic year.
2. A brief synopsis is given by the committee on the importance of committee.
3. Different programs to be organized for lateral entry students and first year MBA students with respect to bridge course cell are planned.
4. Syllabus is framed according to the events organized in the cell.
5. Lateral entry students are encouraged to attend all the programs organized by the cell.
6. Committee has given instructions and suggestions to the students about implementation of the events.



**IQAC Coordinator**



**Principal**





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CMRCET/IQAC/BC-CELL/AY2018-19/CIR-01

Date: 19.05.2018

**CIRCULAR**

All the members of Bridge Course cell committee of the college are requested to prepare the syllabus for below mentioned subjects.

Bridge courses conducting in different departments of the college.

Department	Name of the program to be conducted
CSE	Bridge Course on Computer Programming with C
H&S	Bridge Course on Basic Engineering Mathematics
	Bridge Course on English
MBA	Bridge Course on Accounting for managers
	Bridge Course on Business statistics

  
IQAC Coordinator

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## Bridge Course on Computer Programming with C

### Syllabus

**Introduction:** Basic Structure, Character sets, Keywords, Identifiers, Constants, Variables, Data Types, Program Structure.

**Operators:** Arithmetic, Relational, Logical and Assignment; Increment, Decrement and Conditional, Operator Precedence and Associations; Expressions. Expression evaluation and type conversion. Formatted input and output.

**Statements:** Assignment, Initialization, String handling with arrays, String handling functions, Functions – Arguments passing, Return values and their types, recursion. Enumerated data types. Structures. Arrays of structures. Arrays within structures.

**Pointers:** Declaration and initialization, Accessing variables through pointer arithmetic, Pointers and arrays, String, Pointer to Functions and Structures, Dynamic Storage Allocation.

**File handlings:** Opening, Closing, I/O operations.

#### Text Books:

1. Programming through ANSI C by Balagurusami, TMH
2. C Programming by Kernighan & Ritchie, PHI



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## Bridge Course on Basic Engineering Mathematics

### Syllabus

**Matrices:** Rank and inverse of matrix by elementary transformations, consistency of linear system of equations and their solution, Eigen values and Eigen vectors, Cayley- Hamilton theorem (statement only) & its applications, diagonalization of matrices.

**Differential Calculus:** Curvature, concavity, convexity and points of inflexion, asymptotes, partial differentiation, Euler's theorem on homogeneous functions, total differentiation, approximate calculation, curve tracing.

**Integral Calculus:** Improper Integrals, area and length of curves. Surface area and volume of solid of revolution, multiple integrals, change of order of integration.

**Vector Calculus:** Differentiation and integration of vector functions of scalar variables, scalar and vector fields, gradient, directional derivative, divergence, curl. Line integral, surface integral and volume integral. Green's, Gauss's and Stokes's theorems and their simple applications

#### Text Books:

1. R.K.Jain & S. R. K. Iyengar, Advanced Engineering Mathematics, Narosa
2. B.V.Ramana, Higher Engineering Mathematics, McGraw – Hill



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## Bridge Course on English

### Syllabus

#### **Listening Skills:**

Listening for general content  
Listening to fill up information  
Intensive listening  
Listening for specific information

#### **Speaking Skills:**

Oral practice  
Describing objects/ situations/ people  
Role play - Individual/ Group activities  
Just A Minute Sessions.

#### **Reading Skills:**

Skimming the text  
Understanding the gist of an argument  
Identifying the topic sentence  
Inferring lexical and contextual meaning  
Understanding discourse features

#### **Writing Skills:**

Writing sentences  
Use of appropriate vocabulary  
Paragraph writing  
Coherence and cohesiveness  
Narration / description  
Note Making

#### **Text Books:**

1. LEARNING ENGLISH: A Communicative Approach, Hyderabad: Orient Longman, 2006.
2. WINGS OF FIRE: An Autobiography - APJ Abdul Kalam, Abridged version with Exercises, Universities Press (India) Pvt. Ltd., 2004.

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## BRIDGE COURSE ON ACCOUNTING FOR MANAGERS

### SYLLABUS

Introduction of Accounting, Book Keeping

US GAAP, IFRS concepts.

Accounting Equation, Concepts and Conventions, Nature of Accounting Function

Accounting events and transactions, Journal Entries, Ledger and Subsidiary books

Cash Book, Double Column Cash Book, Petty Cash Book

Text Books:

1. Anthnoy R.N. & Reece J.S. Accounting Principles. Homewood Illinois, Richard D. Irwin. 1995
2. Batacharya S.K.& Dearden J. Accounting for Management- Text and Cases. Vikas New Delhi 1996

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## BRIDGE COURSE ON BUSINESS STATISTICS

### SYLLABUS

Introduction and importance of statistics

Tables, charts and graphical representation of data

Types of Functions, representation of functions on graphs

Mean, Median, Mode, dispersion, range, variance and standard deviation

Compounding and discounting, Time series

Matrix basics

Probability theory, Correlation

#### Text Books:

1. Basic Statistics for Business and Economics, 8e, Douglas A. Lind, William G Marchal, Samuel A. Wathen, 2012.
2. Statistical Methods for Business and Economics, 1st Edition, Gert Nieuwenhuis, 2009.





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CMRCET/ECE/BC-CELL/AY2018-19/CIR-02

Date: 09.04.2019

## CIRCULAR

All the Bridge Course cell members are hereby informed that, the Annual review of committee meeting is scheduled on 12.04.2019. The venue will be Room, No. 214, in Department of Electronics and Communication Engineering at 2.30pm. All are requested to be present on time.

The Agenda of the meeting is:

- i) Review meeting on the programs conducted in current Academic Year.
- ii) Discussion on student's feedback.
- iii) Suggestions for improvement.

Convener  
Bridge Course cell

HOD, ECE

HOD, ECE Department  
Department  
CMR College of Engineering & Technology  
Kandlakoya, Hyderabad-501401.

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## BRIDGE COURSE CELL (AY 2018-19)

### MINUTES OF MEETING

1. The Meeting was conducted on 12.04.2019 from 2.30 to 3:30 pm in the Department of ECE.
2. The Convener welcomed all the committee members
3. Discussed about the problems faced in conduction of programs and students' feedback.
4. Discussed about non-conduct /extra conducted events
5. Committee members suggested the modifications for the improvement of activities in the next academic years.
6. All the members accepted the suggestions.
7. There were no non conducted events & no extra events conducted

#### List of faculty members attended the meeting

S.No	Name of the member	Designation	Position
1.	Major. Dr. V A Narayana	Principal	Chairman
2.	Dr. D. Vijaya Kumar	Asst. Prof., ECE	Convener
3.	Mr. Y. Chitti Babu	Asst. Prof., ECE	Member
4.	Mr. G. Ravi Kumar	Asst. Prof., CSE	Member
5.	Mr. Ch. Shankara Rao	Asst. Prof., EEE	Member
6.	Mr. E. Sammaiah	Asst. Prof., MECH	Member
7.	Dr. J.Srinivasa Rao	Professor, CIVIL	Member
8.	Mr. L. Ramanjaneya	Asst. Prof., MBA	Member

Convener  
Bridge Course cell

HOD, ECE

Head of the Department  
Department of ECE

CMR College of Engineering & Technology  
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Date: 16.04.2019

To,  
IQAC Coordinator  
CMRCET

Sub: Submission of Annual report for the programs conducted under Bridge Course cell in A.Y:  
2018-19- Reg.

Respected Sir,

As you are aware that different programs were conducted for the students under Bridge Course cell in this academic year. Herewith I am enclosing the Annual report of the events. There were no non conducted events & no Extra events conducted

**Program Outcomes:** Through participation in various programs conducted, lateral entry student gains various skills, experience and confidence to prepare and appear for the end semester examinations.

Encl. Department wise list of events conducted in AY 2018-19

Thanking you,

  
Convener

Bridge Course cell

  
HOD, ECE

Head of the Department  
Department of ECE  
CMR College of Engineering & Technology  
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## BRIDGE COURSE CELL

### List of programs conducted (AY 2018-19)

S. No	Dept.	Name of the program to be conducted	No. of Students attended	Name of the agency or faculty involved
1	ECE	Bridge Course on Computer Programming with C	48	Ms. Preeti Singh, Asst.Prof.(CSE), CMRCET
2		Bridge Course on Basic Engineering Mathematics	48	Ms. M.Sreedevi Asst.Prof.(H&S), CMRCET
3		Bridge Course on English	48	Ms. Mary Latha Asst.Prof.(H&S), CMRCET
4	CSE	Bridge Course on Computer Programming with C	20	Ms. B Anuradha, Asst.Prof.(CSE), CMRCET
5		Bridge Course on Basic Engineering Mathematics	20	Mr. S Naresh Kumar Asst.Prof.(H&S), CMRCET
6		Bridge Course on English	20	Ms. G Sandhya Rani Asst.Prof.(H&S), CMRCET
7	EEE	Bridge Course on Computer Programming with C	28	Ms.SUBASHINI, CMRCET
8		Bridge Course on Basic Engineering Mathematics	28	Ms.ARUNA, CMRCET
9		Bridge Course on English	28	Ms.LAXMI, CMRCET
10	Mech	Bridge Course on Computer Programming with C	29	Ms. Pallavi, Asst.Prof.(CSE), CMRCET
11		Bridge Course on Basic Engineering Mathematics	29	Ms. K.Aruna Asst.Prof.(H&S), CMRCET
12		Bridge Course on English	29	Mr.Suneel Kumar, Asst.Prof.(H&S), CMRCET
13	Civil	Bridge Course on Computer Programming with C	25	Mrs. B Deepthi, Asst.Prof.(CSE), CMRCET
14		Bridge Course on Basic Engineering Mathematics	25	Mrs. M.Sreedevi Asst.Prof.(H&S), CMRCET
15		Bridge Course on English	25	Mrs. sandhya Asst.Prof.(H&S), CMRCET
16	MBA	Bridge Course on Accounting for managers	118	A.Kotishwar Dept of MBA CMRCET
17		Bridge Course on Business statistics	118	Dr. P.Vijaya Lakshmi Dept of MBA CMRCET

  
Convener

Bridge Course cell

  
HOD, ECE

Head of the Department  
Department of ECE  
CMR College of Engineering & Technology  
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