Dr. S.RAJASEKARAN
B.E. (Mechanical) M.E. (Production-Robotics)
Ph.D. (Mechanical-Pulse GMA Welding) (Indian Institute of Technology, Bombay, India)
PRINCIPAL

Ref.: - BEC/Autonomous/AC/2019/640 Date: June 22, 2019.

Minutes of the 10th Academic Council (Autonomous) Meeting

The 10th College Academic Council (Autonomous) Meeting was held on Saturday, 22.06.2019 at 10.00 a.m. in the Conference Hall of the College Administrative Block.

Members Present in the Meeting:

1. Dr. S. Rajasekaran, Principal & Chairman of College Academic Council

All HODs:

2. Dr. J. Srinivasa Rao, Chemical Engineering
3. Dr. Shaik Nazeer, Computer Science & Engineering
4. Dr. B. Chandra Mohan, Electronics & Communication Engineering
5. Dr. N. Rama Devi, Electrical & Electronics Engineering
6. Prof. Ch. Ramesh, Electronics & Instrumentation Engineering
7. Prof. N. Siva Ram Prasad, Information Technology
8. Dr. T. Nanchariah, Mechanical Engineering
9. Sri. K. N. Prasad, MCA
10. Dr. P. Vijaya Saradhi, Mathematics
11. Dr. K. Rama Krishna, Physics
12. Dr. V. Madhava Rao, Chemistry
13. Dr. P. Asha Madhavi, English

Faculty of the College:

14. Dr. T. Chandra Sekhar Rao, Professor, Dept. of Civil Engineering
15. Dr. V. Aruna, Assoc. Professor, Dept. of Physics
16. Sri. K. Prasada Rao, Assoc. Professor, Dept. of Mechanical Engineering
17. Dr. K. Srinivasa Rao, Asst. Professor, Dept. of Information Technology

Members - Academic/Industry:

18. Dr. Muddana S. C. Bose, Former Professor, IIT-Bombay
19. Dr. V. Govardhana Rao, Former Professor, IIT-Bombay
20. Dr. M. Veera Sekhar, Founder, Congnisight India Pvt. Ltd
21. Mr. M. V. Ramesh Kumar, Scientist-G, ARDE, DRDO
22. Mr. J. Ravichandra, General Manager-ITS, Central & West, Hyderabad Telecom
23. Dr. K. Vizaya Kumar, Academic Adviser, Bapatla Education Society

Nominees of the University:

24. Dr. R. Satya Prasad, Prof. & Head, Dept. of CSE, Acharya Nagarjuna University
25. Prof. P. Siddaiah, Dept. of ECE, University College of Engineering, A.N.U.
26. Dr. R. V. S. S. N. Ravi Kumar, Prof. & Head, Dept. of Physics, A.N.U.

Member Secretary:

27.Mr. D. Narayana Chowdary, Assoc. Prof., Dept. of Mech. Engg.

Members requested for leave of absence for the Meeting:

1. Mr. Kota Jayaram, Engineering Head, Google Hyderabad
2. Dr. Ch. Naga Satish Kumar, HOD,Civil Engineering

Proceedings:

The Principal and the Chairman, Academic Council Dr. S.Rajasekaran, welcomed all the members for 10th Academic Council Meeting.

1. **Conformation of the previous meeting minutes**

   The members of the Academic Council (Autonomous) confirmed the minutes of the previous 9th Academic Council meeting held on 10.11.2018. The copy of the same is enclosed as **Enclosure-1.**

2. **Action taken report**

   The action taken report for the suggestions given by the members during the previous 9th Academic council meeting held on 10.11.2018 was presented by the Chairman, Academic Council Dr. S.Rajasekaran and was approved by the members. The copy of the same is enclosed as **Enclosure-2.**

   - Dr. V.Govardhana Rao sought clarification regarding the amount earmarked as seed money for research in the financial year 2019-20. Dr. K.Vizaya Kumar clarified that a maximum amount of Rs. 5,00,000/- was proposed in the budget per research proposal of a faculty member.

3. **Curriculum issues**

   The scheme for all four years and syllabus up to second year for the B.Tech. programs offered under R18 regulations, as approved by the respective board of studies, was presented by the HODs. The comparison between the R18 courses and AICTE & APSHE model courses was also presented by the HODs. The copy of the same is enclosed as **Enclosure-3.**

   - Prof. P.Siddaiah suggested mapping the syllabus of the courses as per APSHE model with a maximum deviation of 20%.

   - Mr. M.V.Ramesh Kumar suggested that common courses like Data structures, Python etc offer by CSE and ECE department should be handled by expert faculty of CSE department.

   - Mr. M.V.Ramesh Kumar suggested offering the course Smart grid as core course instead of elective course for EEE B.Tech program.

- Dr. Muddana S.C.Bose suggested offering Automobile Engineering as core course for Mechanical Engineering B.Tech program.

- As proposed by the BOS of Mechanical Engineering Department it was resolved to (i) amend the prerequisites for the course Engineering Mechanics-II (18ME203) from 'Engineering Mechanics-I (18ME103)' to 'None' in R18 regulations and (ii) offer Engineering Mechanics-II (18ME203) in the third semester for the academic year 2019-20 as the seventh subject for those who have not taken it in the second semester in the academic year 2018-19.

- Dr. V.Govardhana Rao suggested that 8th Semester should be free of lab courses if possible.

- Mr. M.V.Ramesh Kumar suggested reconsidering the title of Advanced Linear Algebra offered by Mathematics Department as Institute Elective.

- Mr. J.Ravichandra suggested developing a Fiber Optical Communication Lab in the college.

- It was resolved to conduct Instant Supplementary Examinations for the R14 regulation students who fail in one theory/lab course of VII & VIII Semesters put together after declaration of the VIII Semester Regular and VII Semester Supplementary results.

4. Status of R-18 Implementation

- Dr. J. Srinivasa Rao, Controller of Examination has presented the I-year results under R-18 Regulations.

5. New Courses to be planned

- The members suggested looking at the feasibility of starting new courses in Mechatronics, Data Sciences and Security, Machine Learning and Engineering Design.

(D.Narayana Chowdary)
Member Secretary

(Dr. S.Rajasekaran)
Principal

To
All the Esteemed Members of the Academic Council (Autonomous)
Office Superintendent.

Dr. S.RAJASEKARAN
B.E. (Mechanical) M.E. (Production-Robotics)
Ph.D. (Mechanical-Pulse GMA Welding) (Indian Institute of Technology, Bombay, India)
PRINCIPAL

Ref.: - BEC/Autonomous/AC/2018-19/1445 Date: November 10, 2018.

Minutes of the 9th Academic Council (Autonomous) Meeting

The 9th College Academic Council (Autonomous) Meeting was held on Saturday, 10.11.2018 at 10.00 a.m. in the Conference Hall of the College Administrative Block.

Members Present in the Meeting:

1. Dr. S. Rajasekaran, Principal & Chairman of College Academic Council

All HODs:

2. Dr. J. Srinivasa Rao, Chemical Engineering
3. Dr. Ch. Naga Satish Kumar, Civil Engineering
4. Dr. Shaik Nazeer, Computer Science & Engineering
5. Dr. B. Chandra Mohan, Electronics & Communication Engineering
6. Dr. N. Rama Devi, Electrical & Electronics Engineering
7. Prof. Ch. Ramesh, Electronics & Instrumentation Engineering
8. Prof. N. Siva Ram Prasad, Information Technology
9. Dr. T. Nanchariah, Mechanical Engineering
10. Sri. K. N. Prasad, MCA
11. Dr. P. Vijaya Saradhi, Mathematics
12. Dr. K. Rama Krishna, Physics
13. Dr. V. Madhava Rao, Chemistry
14. Dr. P. Asha Madhavi, English

Faculty of the College:

15. Dr. T. Chandra Sekhar Rao, Professor, Dept. of Civil Engineering
16. Dr. V. Aruna, Assoc. Professor, Dept. of Physics
17. Sri. K. Prasada Rao, Assoc. Professor, Dept. of Mechanical Engineering
18. Dr. K. Srinivasa Rao, Asst. Professor, Dept. of Information Technology

Members - Academic/Industry:

19. Dr. Muddana S. C. Bose, Former Professor, IIT-Bombay
20. Dr. V. Govardhana Rao, Former Professor, IIT-Bombay
21. Mr. J. Ravichandra, General Manager-ITS, Central & West, Hyderabad Telecom
22. Dr. K. Vizaya Kumar, Academic Adviser, Bapatla Education Society

Nominees of the University:

23. Dr. R. Satya Prasad, Prof. & Head, Dept. of CSE, Acharya Nagarjuna University
24. Prof. P. Siddaiah, Dept. of ECE, University College of Engineering, A.N.U.
25. Dr. R. V. S. S. N. Ravi Kumar, Prof. & Head, Dept. of Physics, A.N.U.

Member Secretary:

26. Mr. D. Narayana Chowdary, Assoc. Prof., Dept. of Mech. Engg.

Members requested for leave of absence for the Meeting:

1. Mr. Kota Jayaram, Engineering Head, Google Hyderabad
2. Mr. M. V. Ramesh Kumar, Scientist-G, ARDE, DRDO
3. Dr. M. Veera Sekhar, Founder, Congnisight India Pvt. Ltd.

Proceedings:

The Principal and the Chairman, Academic Council Dr. S. Rajasekaran, welcomed all the members for 9th Academic Council Meeting.

1. **Conformation of the previous meeting minutes.**

   The members of the Academic Council (Autonomous) confirmed the minutes of the previous 8th Academic Council meeting held on 04.08.2018. The copy of the same is enclosed as **Enclosure-1.**

2. **Action taken report.**

   The action taken report for the suggestions given by the members during the previous 8th Academic council meeting held on 04.08.2018 was presented by the Chairman, Academic Council Dr. S. Rajasekaran and was approved by the members. The same is enclosed as **Enclosure-2.**

   - Dr. Muddana S.C.Bose suggested instituting the best teacher award to encourage faculty.

3. **Change in Academic Rules & Regulations for R14 & R18, permitting VIII Semester students to take MOOC Courses instead of Classroom Courses.**

   The following changes in Academic Rules & Regulation for R14 & R18 were proposed by Dr. J. Srinivasa. Rao, COE.

   a) In order to facilitate the students who take up 3-6 months internship/training/ advance placements/projects offered by renowned Industry-Institutions-Universities in India and abroad, permission may be granted to take up equivalent MOOC courses instead of regular class room courses in that semester. Such cases are to be proposed by the department committee and approved by the HODs committee. The department committee should evaluate the certificate of the MOOC course and award suitable credits.

   b) The students who take up 3-6 months internship / training / advance placements / projects offered by renowned Industry-Institutions-Universities in India and abroad should select a suitable project work in consultation with internal guide allocated by the department committee and submit the report for evaluation & award of credits.

The above changes were approved by the members.

- Dr. V.Govardhana Rao and Mr. J.Ravichandra suggested taking sufficient care in monitoring the students who take training/internship outside the college.

4. Changes in Academic Rules & Regulations for R18

The following changes in Academic Rules & Regulations for R18 were proposed by Dr. J. Srinivasa. Rao, COE.

a) <u>Pass criteria in Semester End Examinations (SEE)</u>

5.2 Semester End Examination (SEE) in Theory, Design and/or Drawing course:

5.2 b) A minimum of 25 (50%) marks are to be secured exclusively in the Semester End Examination (SEE) of theory, design and/or drawing course and a minimum total of 50 marks in SEE and Continuous Internal Evaluation (CIE) put together in a theory, design and/or drawing course is to be secured in order to be declared as passed in that course and for the award of the grade in the course.

Shall be revised as

5.2 b) A minimum of 20(40%) marks are to be secured exclusively in the Semester End Examination (SEE) of theory, design and/or drawing course and a minimum total of 50marks in SEE and Continuous Internal Evaluation (CIE) put together in a theory, design and/or drawing course is to be secured in order to be declared as passed in that course and for the award of the grade in the course.

Similarly the pass mark in **Semester End Examination (SEE) in laboratory courses, Evaluation of Term Paper and Evaluation of the Project** shall be modified to 40% marks as against 50% marks earlier proposed.

- Prof. P.Siddaiah suggested considering 50% as pass marks in Semester End Examination (SEE) in laboratory courses, Evaluation of Term Paper and Evaluation of the Project.

b) <u>Engineering Graphics as Lab Course</u>

Engineering Graphics (18MEL01) proposed earlier as Theory Subject will now be considered as Laboratory Course. Laboratory Course will be conducted using a Drafting Software.

The above changes were approved by the members.

5. **Research Policy**

The research policy was presented by Dr. P.Sundar Kumar, Prof., Civil Engineering Department and approved by the members. The copy of the same is enclosed as **Enclosure-3.**

- All the members appreciated the initiative taken to device a research policy for the institute.
- The members suggested formulating a research advisory committee along with a research director.
- Dr. Muddana S.C.Bose has suggested identifying potential areas of research and motivating the younger faculty to pursue active research.
- Dr. V.Govardhana Rao suggested faculty monitoring for strengthening research. He emphasized the need for provision to be made in the budget for seed money to carry out research.

6. **Any other matter with the permission of the chair**

The Principal and the Chairman, Academic Council Dr. S. Rajasekaran informed the members about the general collaborative agreement between New Mexico State University and Bapatla Engineering College. The MoU is enclosed as **Enclosure-4.**

(D.Narayana Chowdary)
Member Secretary

(Dr. S.Rajasekaran)
Principal

To
All the Esteemed Members of the Academic Council (Autonomous)
Office Superintendent.

Bapatla Engineering College

(Autonomous)
BAPATLA–522102

Minutes of the meeting
of
7th Academic Council meeting
held on 20.08.2016

Estd.1981

Bapatla Engineering College

(Autonomous)

Mahatmaji Puram, BAPATLA-522102, Guntur (Dt.), A.P., INDIA

Sponsored by the Bapatla Education Society

Approved by AICTE :: Affiliated to Acharya Nagarjuna University

Dr. B.CHANDRA MOHAN, Ph.D.
PRINCIPAL I/C.

Ref.: -BEC/Autonomous/AC/2023 Date: September 26, 2016.

Minutes of the 7th Academic Council (Autonomous) Meeting

The 7th College Academic Council (Autonomous) Meeting was held on Saturday, 20.08.2016 at 10 a.m. in the Conference Hall of the College Administrative Block.

Members Present in the Meeting:

All HODs:

1. Dr. J.Srinivasa Rao, Chemical Engineering.
2. Dr. Ch.Naga Satish, Civil Engineering.
3. Prof. V.Chakradhar, Computer Science & Engineering.
4. Dr. B.Chandra Mohan, Electronics & Communication Engineering.
5. Dr. G.Ravi Kumar, Electrical & Electronics Engineering.
6. Prof. Ch.Ramesh, Electronics & Instrumentation Engineering.
7. Prof. N.Siva Ram, Information Technology.
8. Dr. M.Venkateswara Rao, Mechanical Engineering.
9. Sri. K.N.Prasad, MCA.
10. Dr. P.Vijayasaradhi, Mathematics.
11. Dr. K.Rama Krishna Rao, Physics.
12. Dr. V.Madhava Rao, Chemistry.
13. Dr. P.Asha Madhavi, Engilish.

Experts from outside the college:

Members-Academic/Industry:

14. Sri E.V.S.Sai Babu, Vice-President , Talent Acquisition, Wipro Technologies, K36, Diamond Dt.,Near Lela Palace Hostel, Old Airport Rd., Banglore-560008.
15. Prof. G.Nageswara Rao, Principal, ASN College of Engg., for Women, Tenali.

Nominees of the University:

16. Dr. K. Gangadhara Rao, Dept. of Computer Science & Engineering, Acharya Nagarjuna University.
17. Prof. N.Veeraiah, Dept. of Physics, Acharya Nagarjuna University.

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Co-opted Member from the College:

18. Sri. D. Narayana Chowdary, Associate Professor, Mechanical Engineering and Head, Placement.

Members of the Faculty of the College:

19. Dr. N.Venkateswara Rao, Professor, Department of ECE.
20. Sri T.SivaSankar, Assoc. Professor, Mechanical Engineering.
21. Smt. J.Venkata Lakshmi, Assoc. Professor, Department of EIE.
22. Sri. N.Karunakar, Asst. Professor, Department of Mathematics.

Proceedings:

On behalf of Dr. N.Sudhakar, Principal, Bapatla Engineering College, and Chairman, Academic Council, Dr. B.Chandra Mohan, Head Department of ECE welcomed all the members to the 7th Academic Council meeting and conducted the proceedings.

Minutes of the meeting:

1. **Confirmation of the minutes of the previous 6th Academic Council (Autonomous) meeting held on 10/10/2015.**

   The members of the Academic Council (Autonomous) confirmed the minutes of the meeting of the previous 6th Academic Council meeting held on 10/10/2015. The copy of the same is enclosed as **ENCLOSURE-1.**

2. **To apprise the members about the progress of autonomous system and achievements of the college during the academic year 2015-2016.**

   The members were apprised about the progress and achievements of Bapatla Engineering College during the Academic year 2015-16, which include:

   I. Extension of Autonomy
   II. Autonomous Examination System reforms
   III. Autonomous Semester End Examination Results
   IV. Achievements of the students and members of the faculty
   V. Training & Placements
   VI. Conference and workshops conducted by various departments
   VII. Research and Development activities
   VIII. Industry-Academia Collaboration
   IX. MOU with APSSDC & NASSCOM

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3. **To Discuss and review the existing Academic Regulations and Scheme of Instructions & Syllabus of first year B.Tech. in R-14 regulations.**

The members of Academic Council (Autonomous) approved the following changes in Regulations & Scheme of Instructions and Syllabus of the first year B.Tech. Program in R-14 regulations.

I. **The following change is made in academic regulations 2014**

A maximum of 5 marks weightage in CIE in each theory/drawing course shall be given for those students who put in a minimum of 65% attendance in the respective theory/drawing course in a graded manner as indicated below:

Attendance of 65% and above but less than 75%	4 mark
Attendance of 75% and above but less than 80%	6 mark
Attendance of 80% and above but less than 90%	8 marks
Attendance of 90% and above	10 marks

The above marks are scaled and reduced to maximum of 5 marks for the purpose of calculating attendance weightage.

Shall be replaced with

A maximum of 5 marks weightage in CIE in each theory/drawing course shall be given for those students who put in a minimum of 75% attendance in the respective theory/drawing course in a graded manner as indicated below:

Attendance of 75% and above but less than 80%	1 mark
Attendance of 80% and above but less than 85%	2 mark
Attendance of 85% and above but less than 90%	3 marks
Attendance of 90% and above	5 marks

II. **The following changes are made in Scheme of Instruction & Syllabus of first year B.Tech. in regulations R-14**

a. It is resolved to restructure the scheme of instruction for the I and II semesters of R14 regulation applicable from the academic year 2016-17. Basic Electrical and Electronics Engineering (14EE104/14EE204) of I/II semester is swapped with Communicative English (14EL204/14EE104) of II/I semester correspondingly and respectively. The modified schema is enclosed herewith as **ENCLOSURE-2.**

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b. It is resolved to make minor modifications in the syllabus of R14 regulations in the subject Engineering Mechanics (14EM105 in I semester/14EM205 in II semester) applicable from academic year 2016-17 onwards. The minutes of the meeting of the BOS of Dept. of Civil Engineering is enclosed herewith as **ENCLOSURE-3.**

c. It is resolved to make minor modifications in the syllabus of R14 regulations in the subject Engineering Chemistry - I (14CY103 in I semester) and Engineering Chemistry - II (14CY203 in II semester) applicable from academic year 2016-17 onwards. The minutes of the meeting of the BOS of Dept. of Chemistry is enclosed herewith as **ENCLOSURE-4.**

d. It is resolved to make minor modifications in the syllabus of R14 regulations in the subject Communicative English (14EL204/14EL104) and English Communications Skills Lab (14ELL102/14ELL202) applicable from academic year 2016-17 onwards. The minutes of the meeting of the BOS of Dept. of English is enclosed herewith as **ENCLOSURE-5.**

4. **Ratification of proposed changes in the curriculum of R-14 regulations for second, third and fourth B.Tech. as per the resolutions of the respective Board of Studies.**

The members of the Academic Council approved and ratified the proposed changes in the curriculum of R-14 regulations for second, third and fourth B.Tech. Program as per the resolutions of the respective Board of Studies. The corresponding minutes of the meeting of the BOS of different departments are enclosed as **ENCLOSURE-6.**

(D.Narayana Chowdary)
Member Secretary

(Dr. B.Chandra Mohan)
Principal I/c.

To
All the esteemed members of the Academic Council (Autonomous)
Office Superintendent.

Off.: 08643-224244, 225234, 224266; Fax: 08643-224246; E-mail: bec_principal@yahoo.com; Website: www.becbapatla.ac.in

ENCLOSURE-1

Bapatla Engineering College

(Autonomous)

Mahatmaji Puram, BAPATLA-522102, Guntur (Dt.), A.P., INDIA

Sponsored by the Bapatla Education Society

Estd.1981 Approved by AICTE: Affiliated to Acharya Nagarjuna University

Dr. N.SUDHAKAR, Ph.D.
PRINCIPAL

Ref.: -BEC/Autonomous/AC/1433 Date: October 16, 2015.

Minutes of the 6th Academic Council (Autonomous) Meeting

6th College Academic Council (Autonomous) Meeting was held on Saturday, 10.10.2015 at 10.00 a.m. in the Conference Hall of the College Administrative Block.

Members Present in the Meeting:

Chairman:

1. Dr. N.Sudhakar, Principal, Bapatla Engineering College & Chairman, College Academic Council

All HoDs:

2. Dr. J.Srinivasa Rao, Chemical Engineering.
3. Dr. Ch.Naga Satish Kumar, Civil Engineering.
4. Prof. V.Chakdradhar, Computer Science and Engineering.
5. Dr. B.Chandra Mohan, Electronics and Communication Engineering.
6. Dr. G.Ravi Kumar, Electrical and Electronics Engineering.
7. Prof. Ch.Ramesh, Electronics and Instrumentation Engineering.
8. Prof. N.Sivarama Prasad, Information Technology.
9. Dr. M.Venkateswara Rao, Mechanical Engineering.
10. Sri. K.N.Prasad, MCA.
11. Dr. N.Prabhakar Rao, Mathematics
12. Dr. K.Rama Krishna Rao, Physics
13. Dr. V.Madhava Rao, Chemistry
14. Sri. N.Sudheer Kumar, English.

Experts from outside the College:

Members-Academic/Industry:

15. Sri.Chetan Rajdev, Dy.General Manager, Bosch Rexroth India Ltd, Bengaluru.
16. Sri. M.Sri Krishna, Senior Consultant, TCS Ltd. Hyderabad.
17. Prof. G.Nageswara Rao, Principal, ASN College of Engg. For Women, Tenali.
18. Prof. K.Lakshmi Prasad, Principal, GITAM College of Engg., Vishakapatnam.

Off.: 08643-224244, 225234, 224266; Fax: 08643-224246; E-mail: bec_principal@yahoo.com; Website: www.becbapatla.ac.in

Nominees of the University:

19. Dr. K.Gangadhara Rao, Department of Computer Science, Acharaya Nagarjuna University.

Co-opted Member from the College:

20. Sri. D.Narayana Chowdary, Associate Professor, Mechanical Engineering and Head, Placements.

Members of the Faculty of the College:

21. Dr. N.Venkateswara Rao, Professor, Department of E.C.E
22. Sri. T.Siva Sankar, Assoc. Professor, Mechanical Engineering Department.
23. Smt. J.Venkata Lakshmi, Assoc.Professor, Department of EIE.
24. Sri. N.Karunakar, Asst.Professor, Department of Mathematics.

Members requested for leave of Absence for the Meeting:

Members-Academic/Industry:

1. Dr. S.R.Parimi, Educationalist and Structural Engineer, Jabili Clinic, Poranki.
2. Sri E.V.S.Sai Babu, Vice-President & Head, Talent Acquisition, Wipro Technologies, Bengaluru.
3. Sri. D.Rama Krishna, Managing Director, Efftronics Systems Pvt. Ltd., Vijayawada.

Nominees of the University:

4. Prof. N.Veeriah, Department of Zoology, Acharya Nagarjuna University,
5. Prof. P.Siddhaiah, Principal, University College of Engineering, Acharya Nagarjuna University.

Proceedings:

The Principal and the Chairman, Academic Council Dr. N.Sudhakar welcomed all the members for 6th Academic Council meeting.

Off.: 08643-224244, 225234, 224266; Fax: 08643-224246; E-mail: bec_principal@yahoo.com; Website: www.becbapatla.ac.in

Minutes of the Meeting:

1. **To apprise the members about the progress of Autonomous System and achievements of the college during the academic year 2014-2015.**

   Dr. N.Sudhakar, Chairman of the Academic Council, has apprised the members about the progress and the achievements of the Bapatla Engineering College during the Academic year 2014-15, which included:

   I. Results.
   II. Achievements of the Students and Members of the faculty.
   III. Placements.
   IV. Conferences and workshops conducted by various departments.
   V. Research and Developmental activities.
   VI. Industry-Academia collaboration.
   VII. MoU arrived with APSSDC & NASSCOM.

2. **To discuss and review the existing Academic Regulations-2014**

   Members of the Academic Council have unanimously approved the amendments made to the rules and regulations of Academic Regulation 2014.

3. **To discuss and review the Scheme of Instruction and Syllabi proposed by the Boards of Studies of all the departments.**

   Members of the Academic Council have approved the Schema and Syllabus of 2/4, 3/4 and 4/4 B.Tech. of various departments that have been presented by the respective Heads of the Departments.

   Academic council has acceded to call for (if required) BOS meetings of the departments to make changes (if any) to the scheme and syllabus of Academic Regulation of 2014.

   Members suggested to review the title of a Course (named as Electronics) in the scheme of Mechanical Engineering.

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4. **Nomination of subject experts for the Board of Studies of various departments and their approval.**

   Members of the Academic council have approved the Nomination of Subject Experts for the Board of Studies of various departments and their constitution.

5. **Any other subject with the permission of the Chair.**

   Members of the Academic Council have approved the minutes of the 6th Academic Council Meeting held in August 2014.

   The members of the academic council have made the following suggestions to improve upon the standards of the curriculum. The suggestions are:

   I. To offer internship programmes by using the research centres available in the institute to the students of the college and the nearby colleges.

   II. To adopt choice based credit system into the curriculum.

   III. To limit the 8th semester exclusively to the research project in the curriculum.

   IV. To offer open/regular courses related to the following fields of Digital Technology: Artificial intelligence, social networking, cloud computing, Data Analytics and Design of Algorithms.

   V. To adopt the credit based scheme for promoting the students rather than subject based scheme.

(D.Narayana Chowdary)
Member Secretary

(Dr. N.Sudhakar)
Principal, BEC &
Chairman, Academic Council

To:

All the esteemed members of the Academic Council (Autonomous).

Copy to:

1. The President, Bapatla Education Society.
2. The Vice-President, Bapatla Education Society.
3. The Secretary, Bapatla Education Society.

Off.: 08643-224244, 225234, 224266; Fax: 08643-224246; E-mail: bec_principal@yahoo.com; Website: www.becbapatla.ac.in

ENCLOSURE-2

SCHEME OF INSTRUCTION & EXAMINATION (Semester System)
For
CH, CS, EI, IT, ME Branches
With Effective from 2016-2017 Academic Year
First Year B.Tech., (SEMESTER – I)

Code No.	Subject	Scheme of Instruction (Periods per week)					Scheme of Examination (Maximum marks)			No. of Credits
		L	T	P	S	Total	CIE	SEE	Total Marks	
14MA101	Engineering Mathematics – I	4	1	0	0	5	40	60	100	4
14PH102	Engineering Physics – I	4	0	0	0	4	40	60	100	3
14CY103	Engineering Chemistry – I	4	0	0	0	4	40	60	100	3
14EE104	Basic Electrical and Electronics Engineering	4	0	0	0	4	40	60	100	3
14ES105	Environmental Studies	4	0	0	0	4	40	60	100	3
14EG106	Engineering Graphics	4	1	0	1	6	40	60	100	4
14CYL101	Chemistry Lab	0	0	3	0	3	40	60	100	2
14HWL102	Hardware Lab	0	0	3	0	3	40	60	100	2
14WSL103	Workshop	0	0	3	0	3	40	60	100	2
	TOTAL	24	2	9	1	36	**360**	**540**	**900**	**26**

CIE: Continuous Internal Evaluation SEE: Semester End Examination
L: Lecture T: Tutorial P: Practical S: Self Study

SCHEME OF INSTRUCTION & EXAMINATION (Semester System)
For
CH, CS, EI, IT, ME Branches
With Effective from 2016-2017 Academic Year
First Year B.Tech, (SEMESTER – II)

Code No.	Subject	Scheme of Instruction (Periods per week)					Scheme of Examination (Maximum marks)			No. of Credits
		L	T	P	S	Total	CIE	SEE	Total Marks	
14MA201	Engineering Mathematics – II	4	1	0	0	5	40	60	100	4
14PH202	Engineering Physics – II	4	0	0	0	4	40	60	100	3
14CY203	Engineering Chemistry – II	4	0	0	0	4	40	60	100	3
14EL204	Communicative English	4	0	0	0	4	40	60	100	3
14EM205	Engineering Mechanics	4	1	0	0	5	40	60	100	4
14CP206	Problem Solving with Programming	4	0	0	1	5	40	60	100	3
14PHL201	Physics lab	0	0	3	0	3	40	60	100	2
14ELL202	English Communication Skills Lab	0	0	3	0	3	40	60	100	2
14CPL203	Problem Solving with Programming Lab	0	0	3	0	3	40	60	100	2
	TOTAL	24	2	9	1	36	360	540	900	26

CIE: Continuous Internal Evaluation SEE: Semester End Examination
L: Lecture T: Tutorial P: Practical S: Self Study

Bapatla Engineering College:: Bapatla
(Autonomous)

SCHEME OF INSTRUCTION & EXAMINATION (Semester System)

First Year B.Tech. (SEMESTER – I)

For

CE, EC & EE Branches

With Effect From 2016-2017 Academic Year

Code No.	Subject	Scheme of Instruction (Periods per week)					Scheme of Examination (Maximum marks)			No. of Credits
		L	T	P	S	Total	CIE	SEE	Total Marks	
14MA101	Engineering Mathematics – I	4	1	0	0	5	40	60	100	4
14PH102	Engineering Physics – I	4	0	0	0	4	40	60	100	3
14CY103	Engineering Chemistry – I	4	0	0	0	4	40	60	100	3
14EL104	Communicative English	4	0	0	0	4	40	60	100	3
14EM105	Engineering Mechanics	4	1	0	0	5	40	60	100	4
14CP106	Problem Solving with Programming	4	0	0	1	5	40	60	100	3
14PHL101	Physics lab	0	0	3	0	3	40	60	100	2
14ELL102	English Communication Skills Lab	0	0	3	0	3	40	60	100	2
14CPL103	Problem Solving with Programming Lab	0	0	3	0	3	40	60	100	2
	TOTAL	24	2	9	1	36	**360**	**540**	**900**	**26**

CIE: Continuous Internal Evaluation SEE: Semester End Examination

L: Lecture T: Tutorial P: Practical S: Self Study

Bapatla Engineering College:: Bapatla
(Autonomous)

SCHEME OF INSTRUCTION & EXAMINATION (Semester System)

First Year B.Tech., (SEMESTER – II)

For

CE, EC & EE Branches

With Effect From 2016-2017 Academic Year

Code No.	Subject	Scheme of Instruction (Periods per week)					Scheme of Examination (Maximum marks)			No. of Credits
		L	T	P	S	Total	CIE	SEE	Total Marks	
14MA201	Engineering Mathematics – II	4	1	0	0	5	40	60	100	4
14PH202	Engineering Physics – II	4	0	0	0	4	40	60	100	3
14CY203	Engineering Chemistry – II	4	0	0	0	4	40	60	100	3
14EE204	Basic Electrical and Electronics Engineering	4	0	0	0	4	40	60	100	3
14ES205	Environmental Studies	4	0	0	0	4	40	60	100	3
14EG206	Engineering Graphics	4	1	0	1	6	40	60	100	4
14CYL201	Chemistry Lab	0	0	3	0	3	40	60	100	2
14HWL202	Hardware Lab	0	0	3	0	3	40	60	100	2
14WSL203	Workshop	0	0	3	0	3	40	60	100	2
	TOTAL	24	2	9	1	36	**360**	**540**	**900**	**26**

CIE: Continuous Internal Evaluation SEE: Semester End Examination

L: Lecture T: Tutorial P: Practical S: Self Study

ENCLOSURE-3

Engineering Mechanics

(Common for all branches)

I B.Tech – II Semester (Code: 14EM105 / 14EM205)

Lectures	4	Tutorial	1	Practical	0	Self Study	0
Continuous Internal Assessment	:	40	Semester End Examination (3 Hours)	:	60		

UNIT – I

Concurrent Forces in a Plane

Principles of statics – Composition and resolution of forces – Equilibrium of concurrent forces in a plane –Method of moments.

Parallel Forces in a Plane

Two parallel forces – General case of parallel forces in a plane – Center of parallel forces – Centroids of composite plane figures and curves

UNIT – II

Moments of Inertia of Plane Figures

Moment of inertia of a plane figure with respect to an axis in its plane – Moment of Inertia with respect to an axis perpendicular to the plane of the figure – Parallel axis theorem

General Case of Forces in a Plane

Composition of forces in a plane – Equilibrium of forces in a plane – Plane trusses: method of joints.

UNIT – III

Friction

Characteristics of friction – problems involving dry friction

Rectilinear Translation

Kinematics of rectilinear motion – principles of dynamics – Differential equations of rectilinear motion D'Alemberts principle – momentum and impulse - work and energy – ideal systems: conservation of energy

UNIT – IV

Curvilinear Translation

Kinematics of curvilinear motion – Differential equations of curvilinear motion – D'Alembert's principle – Work and Energy.

Moments of Inertia of Material Bodies

Moment of inertia of a rigid body – Moment of inertia of a lamina – Moments of inertia of three – dimensional bodies.

Rotation of a Rigid Body about a Fixed Axis

Kinematics of rotation – Equation of motion for a rigid body rotating about a fixed axis – D'Alembert's principle

NOTE

Two questions of 12 marks each will be given from each unit out of which one is to be answered. Twelve questions of one mark each will be given from entire syllabus which is a compulsory question.

TEXT BOOK

1. Engineering mechanics by S. Timoshenko and D. H. Young – Mc Graw-Hill International edition (For concepts and symbolic problems)
2. Engineering mechanics statics and dynamics by A. K. Tayal – Umesh publication, Delhi (For numerical problems using S.I. system of units

REFERENCE BOOKS

1. Vector mechanics for engineers statics and dynamics by Beer and Johnston, Tata Mc Graw-Hill publishing company, New Delhi
2. Engineering mechanics statics and dynamics by R. C. Hibbeler and Ashok Gupta - Pearson (For numerical problems using S.I. system of units)

ENCLOSURE-4

Engineering Chemistry – I
(Common for all branches)
I B.Tech – I Semester (Code: 14CY103)

Lectures	4	Tutorial	0	Practical	0	Self Study	0
Continuous Internal Assessment	:	40	Semester End Examination (3 Hours)	:	60		

UNIT I: Water Technology: (Industrial Purpose) **13 periods**

Characteristics: **Alkalinity** – types of alkalinity and determination (Including simple problems); **Hardness** – types, units and estimation by EDTA method (Including simple problems)

Boiler feed water - Scales, Sludges, Caustic embrittlement, boiler corrosion, Priming and foaming;

Internal conditioning - phosphate, calgon and carbonate methods
External conditioning - Ion exchange process, Lime Soda process (Including simple problems)

UNIT II: **12 periods**

Domestic water treatment – WHO Guidelines, Potable water, Sedimentation, Coagulation, Filtration (Slow sand filter) and disinfection methods: Chlorination - break point chlorination, ozonization, UV treatment.
Desalination: Electro Dialysis and Reverse Osmosis.

Phase rule
Statement and explanation of terms involved; One component system – water system; Condensed phase rule, Thermal analysis - Thermal behavior of pure and impure solids, Eutectic system, Eutectic mixture & Eutectic point, Construction of phase diagram for Bi-Cd system by thermal analysis, Simple eutectic systems (lead-silver system only).

UNIT III: Energy Sources (Fuels) **13 periods**

Classification of fuels; Calorific value of fuels (lower, higher)

Solid fuels: determination of calorific value (Bomb Calorimeter), Coal ranking, Carbonization of coal (Otto-Hoffman by-product method); Proximate and ultimate analysis of coal.

Petroleum based: Petroleum processing and fractions; Cracking – catalytic cracking method (fixed bed); Synthetic petrol: Bergius process, Knocking and anti- knocking Agents, Octane number and Cetane number;
Gaseous fuels: CNG and LPG,

UNIT IV: Engineering Materials **12 Periods**

Refractories: Classification – Acidic, Basic and Neutral refractories; Properties: refractoriness, refractoriness under load, dimensional stability, porosity, thermal spalling; Preparation, Properties and applications of alumina, magnesite and zirconia bricks,

Composites: Introduction Constituents of Composites, types- Fibre reinforced Particulate and Layered composites and their applications.

Lubricants: Mechanism of lubrication, Liquid lubricants - properties: viscosity index, flash and fire points, cloud and pour points, oiliness; Solid lubricants - graphite and molybdenum sulphide.

TOTAL: 50 PERIODS

TEXT BOOKS:

1. P.C. Jain and Monica Jain, "Engineering Chemistry" Dhanpat Rai Pub, Co., New Delhi 15th edition (2010).

REFERENCES:

1 Essential Of Physical Chemistry by Arun Bahl, B.S. Bahl, G.D.Tuli, by Arun Bahl, B.S. Bahl, G.D.Tuli, Published by S Chand Publishers

2 Text Book of Engineering Chemistry by C.P. Murthy, C.V. Agarwal, A. Naidu B.S. Publications, Hyderabad (2006).

3 Engineering Chemistry by K. Maheswaramma, Pearson publishers 2015.

Engineering Chemistry – II
(Common for all branches)
I B.Tech – II Semester (Code: 14CY203)

Lectures	4	Tutorial	0	Practical	0	Self Study	0
Continuous Internal Assessment	:	40	Semester End Examination (3 Hours)	:	60		

UNIT I:

Polymers: **12 periods**

Introduction, polymerization: types – addition and condensation polymerization; Mechanism of free radical addition polymerization with suitable example; Polymer Tacticity and Ziegler Natta polymerization (mechanism).

Plastics: Classification (Thermoplastic and thermosetting); Preparation, properties and uses of PVC, Teflon, Bakelite, Nylon-6,6.

Rubbers: Natural rubber, drawbacks of raw rubber, Vulcanization of rubber; Synthetic rubbers: Buna-S, Buna-N and Poly urethane.

UNIT II

Electro Chemistry **13 periods**

Electrode potential, Determination of single electrode potential; Nernst equation (problems); Electrochemical series – significance; Electro chemical cells, Reversible and irreversible cells, Reference electrodes – Standard Hydrogen electrode, Calomel electrode, Ion selective electrode (glass electrode) – measurement of pH;

Solar cells: Introduction, Solar Panels, Applications;

Fuel Cells: Hydrogen – Oxygen Fuel Cell;

Batteries: Lead – acid, NiCad and Lithium Batteries.

UNIT III: Corrosion and Corrosion Control **13 periods**

Corrosion: Types of corrosion - Chemical or dry corrosion, Pilling – Bedworth rule; Electrochemical or wet corrosion; Galvanic corrosion, pitting, stress and differential aeration corrosion; factors influencing corrosion;

Corrosion control – sacrificial anodic method and impressed current cathodic methods, corrosion inhibitors; Protective coatings: Metallic coatings – electro plating (Au) and electroless plating (Ni). Paints – constituents and functions,

Green Chemistry: Principles and applications of green chemistry, integrated Waste Management (IWM), Zero Waste Technologies (ZWT), green auditing, green solvents, green catalysts, green energies.

UNIT-IV: Analytical Techniques **12 periods**

Beer-Lambert's law; **Colorimetry**: principle, instrumentation (with block diagram) and Estimation of iron, **Flame photometry**: principle, instrumentation (with block diagram) and estimation of sodium; **A**tomic **A**bsorption **S**pectroscopy: principle, instrumentation (with block diagram) and estimation of nickel.

Conductometric titrations (Acid-Base) and Potentiometric titrations (Redox titrations – Fe^{2+} *vs* dichromate).

TOTAL: 50 PERIODS

TEXT BOOKS:

1. P.C. Jain and Monica Jain, "Engineering Chemistry" Dhanpat Rai Pub, Co., New Delhi 15^{th} edition (2010).

REFERENCES:

1. S.S. Dara & Mukkanti K. "A text book of engineering chemistry" S. Chand & Co. Ltd., New Delhi (2006).
2. B. Sivasankar "Engineering Chemistry" Tata McGraw Hills co., New Delhi (2008).
3. Dr. B. K. Sharma, Instrumental methods of analysis, Krishna Prakashan Media, 2000.

Chemistry Laboratory
(Common for all branches)
I B.Tech – II Semester (Code: 14CYL201 / 14CYL101)

Lectures	0	Tutorial	0	Practical	3	Self Study	0
Continuous Internal Assessment	:	40	Semester End Examination (3 Hours)	:	60		

LIST OF EXPERIMENTS

1. **Introduction to Chemistry Lab** (the teachers are expected to teach fundamentals like Calibration of Volumetric Apparatus, Primary, Secondary Solutions, Normality, Molarity, Molality etc. and error, accuracy, precision, theory of indicators, use of volumetric titrations).

2. **Volumetric Analysis:**
   a. Estimation of Washing Soda.
   b. Estimation of Active Chlorine Content in Bleaching Powder
   c. Estimation of Mohr's salt by permanganometry.
   d. Estimation of Magnesium by EDTA method
3. **Analysis of Water:**
   a. Determination of Alkalinity of Tap water.
   b. Determination of Total Hardness of ground water sample by EDTA method
   c. Determination of Salinity of water sample
4. **Estimation of properties of oil**:
   a. Estimation of Acid Number
   b. Estimation of Saponification value
5. **Preparations:**
   a. Preparation of Soap
   b. Preparation of Urea-formaldehyde resin
   c. Preparation of Phenyl benzoate
6. **Demonstration Experiments (Any two of the following):**
   5.1 Determination of p^H of given sample by different methods.
   5.2 Determination of conductivity of given sample by conductometer.

TEXT BOOKS (for Chemistry 1 and 2):

1. Practical Engineering Chemistry by K.Mukkanti, Etal, B.S. Publicaitons, Hyderabad.
2. Inorganic quantitative analysis, Vogel.

REFERENCE BOOKS:

1. Text Book of engineering chemistry by R.n. Goyal and Harrmendra Goel.
2. A text book on experiments and calculations- Engineering Chemistry. S.S. Dara.
3. Instrumental methods of chemical analysis, Chatwal, Anand, Himalaya Publications.

ENCLOSURE-5

Communicative English

(Common for all branches)

I B.Tech – II Semester (Code: 14EL204 / 14EL104)

Lectures	4	Tutorial	0	Practical	0	Self Study	0
Continuous Internal Assessment	:	40	Semester End Examination (3 Hours)	:	60		

UNIT-I

a. **Text: Unit- I** Going Places: Travel
   Unit-II Reaching Out: Mass Media
b. **Grammar:** Review of Parts of Speech, Concord
c. **Writing:** Mind Mapping, Paragraph Writing : Structure, Development & Types
d. **Vocabulary** from the suggested units (Given List)

UNIT- II

a. **Text: Unit-III** Ushering in a New Era: Networking
   Unit-IV Inspiring Minds: Successful People
b. **Grammar:**Tenses, Conditionals
c. **Writing:**Essay Writing: Descriptive, Argumentative, Imaginative, Narrative
d. **Vocabulary** from the suggested units (Given List)

UNIT- III

a. **Text: Unit-V** Morphed Universe: Technology as a double Edged Sword
   Unit-VI The Indomitable Human Spirit: Facing Disasters
b. **Grammar:** Articles, Reported Speech, Voices
c. **Writing:** Letter Writing (Inquiry, Complaint & Request Letters) & Summarizing
d. **Vocabulary** from the suggested units (Given List)

UNIT- IV

a. **Text: Unit-VII** Getting Job Ready: Interview Skills
   Unit-VIII The World of Work: The Corporate Experience
b. **Grammar:** Common Errors
c. **Writing:** Note Making, Technical Report Writing
d. **Vocabulary** from the suggested unit (Given List)

Prescribed Text

Dr Elango, Dr Veena Selvam, Dr Priyadarshini Sujatha (2013): Resonance: English for Engineers and Technologists, CUP.

References:

Michael Swan (2003): Practical English Usage, CUP.

Stephen, McLaren (2003): Easy Writer Student's Guide to Writing Essays and Reports, New Delhi, Viva Books Pvt.

Raymond Murphy (2012): English Grammar in Use (Fourth Edition), CUP.

Lina Mukhopadhyay (2013): English for Jobseekers, CUP.

R.C Sharma (2010): Business Correspondence and Report writing (Fourth Edition), Tata Mc Graw Hill.

English Communication Skills Laboratory
(Common for all branches)
I B.Tech – II Semester (Code: 14ELL202 / 14ELL102)

Lectures	0	Tutorial	0	Practical	3	Self Study	0
Continuous Internal Assessment	:	40	Semester End Examination (3 Hours)	:	60		

UNIT-I: Functional English

Introducing Yourself & Others-Greeting & Parting-Congratulating-Giving Suggestions & Advices-Expressing Opinions-Inviting People-Requesting-Seeking Permission-Giving Information- Giving Directions- Sympathizing-Convincing People-Complaining-Apologizing-Thanking Others- Shopping- Travelling- Conversational Gambits.

UNIT-II

Phonetics (Oral drills) - Stress- Rhythm & Intonation.

UNIT-III Vocabulary Development & Oratory Skills

Classified Vocabulary- Idioms - Phrasal verbs - Words often confused- Analogous words-Corporate Words - JAM- Elocution- Debate.

UNIT-IV Manners and Etiquette

Giving & Receiving Feedback -Telephone Etiquette - Gender Sensitive Language.

Reference Books:

J.D. O' Connor (1984): Better English pronunciation Cambridge University Press

Jack C Richards (2015): New Interchange (4rth Edition) , CUP.

Grant Taylor (2001: English Conversation Practice, Mc Graw Hill.

Micheal Mc Carthy, Felicity O Dell (1994): English Vocabulary in Use, CUP.

Software:

Buzzers for conversations, New Interchange series

English in Mind series, telephoning in English

Speech Solutions, A course in Listening and Speaking

Face to Face series

ENCLOSURE-6

Minutes of the meeting of the Board of Studies in Engineering chemistry held on 23-07-2016 at 9.00 am in the Department of Chemistry.

	Members Attended		Signature
1.	Dr V. Madhava Rao	(HOD, Chairman-BOS)	
2.	Prof. C. Venkata Rao	(External)	
3.	Prof. M.V. Basaveswara Rao	(External)	23/07/16
4.	Prof N. Srinivasulu	(External)	N. Srinivasulu.
5.	Dr J. Venkateswara Rao	Member	J. Venkateswara Rao 23/7/2016
6.	Dr K. Prasada Rao	"	
7.	Dr Ch. Subramanyam	"	
8.	Mr. A. Gopal	"	
9.	Dr V. Syamala	"	
10.	Dr N. Srinivas	"	
11.	Mrs V. Krishna Veni	"	23/6/16
12.	Mr. S. Mohan	"	23/7/16
13.	Mrs P. Priyadarsini	"	
14.			
15.			

The following items were on the Agenda for discussion:

1. formulation of Syllabi for I/IV BTech – Engineering chemistry: Theory and Practical for I and II Semester for 2016-17
2. Any other matter with the permission of the Chairperson of the BOS.

The following Resolutions were passed in the Board of Studies meeting.

1. It is resolved to recommend the revised Syllabus with small changes from the previous existing Syllabus for Engineering chemistry - I (code 16CY103) and Engineering chemistry - II (code 16CY203) and Engineering chemistry lab (16CYL101/16CYL201).

2. The approved Syllabus is enclosed herewith.

3. The new Syllabi formed for both I & II Semesters including lab experiments will be effective from 2016-17 academic years onwards.

4. The Board of Studies Chairman is authorised to finalise the model question papers and list of examiners for theory and practicals.

5. The pattern of conducting examinations (both internal and external) and allotment of marks are as per the present existing rules and regulations.

BAPATLA ENGINEERING COLLEGE
1st B. Tech: 1st Semester Syllabus (Common to all Branches)
With effect from 2016-17
ENGINEERING CHEMISTRY– I Code: CY01

Periods: 3 theories + 1 tutorial : 3Credits

OUTCOME

To impart a sound knowledge on the principles of chemistry involving the different application oriented topics required for all engineering branches.

OBJECTIVES

The student should be conversant:

- With the principles of water characterization and treatment of water for industrial purposes.
- Treatment of water for potable purposes and Industrial importance of Phase rule.
- With the conventional energy sources, Solid, liquid and gaseous Fuels.
- Chemistry of engineering materials and their applications.

UNIT I: Water Technology:(Industrial Purpose) 13 periods

Characteristics: Alkalinity – types of alkalinity and determination (Including simple problems); **Hardness** - types, units and estimation by EDTA method (Including simple problems)

Boiler feed water - Scales, Sludges, Caustic embrittlement, boiler corrosion, Priming and foaming;

Internal conditioning - phosphate, calgon and carbonate methods
External conditioning - Ion exchange process, Lime Soda process (Including simple problems)

UNIT II: 12 periods

Domestic water treatment – WHO Guidelines, Potable water, Sedimentation, Coagulation, Filtration (Slow sand filter) and disinfection methods: Chlorination - break point chlorination, ozonization, UV treatment.
Desalination: Electro Dialysis and Reverse Osmosis.

Phase rule
Statement and explanation of terms involved; One component system – water system: Condensed phase rule, Thermal analysis - Thermal behavior of pure and impure solids, Eutectic system, Eutectic mixture & Eutectic point, Construction of phase diagram for Bi-Cd system by thermal analysis, Simple eutectic systems (lead-silver system only).

23/07/2016
(Prof MVB Rao)

N. Srinivasu
(Prof N. SRINIVASU)
23/7/2016

CUENKAIARAO

UNIT III: Energy Sources (Fuels) 13 periods

Classification of fuels: Calorific value of fuels (lower, higher)

Solid fuels: determination of calorific value (Bomb Calorimeter), Coal ranking, Carbonization of coal (Otto-Hoffman by-product method); Proximate and ultimate analysis of coal.

Petroleum based: Petroleum processing and fractions; Cracking – catalytic cracking method (fixed bed); Synthetic petrol: Bergius process, Knocking and anti- knocking Agents, Octane number and Cetane number:
Gaseous fuels: CNG and LPG.

UNIT IV: Engineering Materials 12 Periods

Refractories: Classification – Acidic, Basic and Neutral refractories; Properties: refractoriness, refractoriness under load, dimensional stability, porosity, thermal spalling; Preparation, Properties and applications of alumina, magnesite and zirconia bricks.

Composites: Introduction Constituents of Composites, types- Fibre reinforced Particulate and Layered composites and their applications.

Lubricants: Mechanism of lubrication, Liquid lubricants - properties: viscosity index, flash and fire points, cloud and pour points, oiliness; Solid lubricants - graphite and molybdenum sulphide.

TOTAL: 50 PERIODS

TEXT BOOKS:

1. P.C. Jain and Monica Jain, "Engineering Chemistry" Dhanpat Rai Pub, Co., New Delhi 15th edition (2010).

REFERENCES:

1 Essential Of Physical Chemistry by Arun Bahl, B.S. Bahl, G.D.Tuli, by Arun Bahl, B.S. Bahl, G.D.Tuli, Published by S Chand Publishers

2 Text Book of Engineering Chemistry by C.P. Murthy, C.V. Agarwal, A. Naidu B.S. Publications, Hyderabad (2006).

3 Engineering Chemistry by K. Maheswaramma, Pearson publishers 2015.

23/07/2016
(Prof. MV B Rao)
CVENKATA RAO

N. Srinivasu
(Prof N. SRINIVASU)
T. Venkateswara Rao
23/7/2016

23/7/16

BAPATLA ENGINEERING COLLEGE

1st B. Tech: II nd Semester Syllabus (Common to all Branches)

With effect from 2016-17

ENGINEERING CHEMISTRY – II Code: CY02

Periods: 3 theories + 1 tutorial : 3Credits

OUTCOME

To impart a sound knowledge on the principles of chemistry involving the different application oriented topics required for all engineering branches.

OBJECTIVES

The student should be conversant with the:

- With the principles of polymer chemistry and engineering applications of polymers.
- Principles of electro chemistry, electrochemical cells, Reference electrodes, Solar and fuel cells, Energy Storage Devises.
- Mechanism of corrosion and Principles of corrosion control.
- Analytical techniques and their importance.

UNIT I:

Polymers: 12 periods

Introduction, polymerization: types – addition and condensation polymerization; Mechanism of free radical addition polymerization with suitable example; Polymer Tacticity and Ziegler Natta polymerization (mechanism).

Plastics: Classification (Thermoplastic and thermosetting); Preparation, properties and uses of PVC, Teflon, Bakelite, Nylon-6,6.

Rubbers: Natural rubber, drawbacks of raw rubber, Vulcanization of rubber; Synthetic rubbers: Buna-S, Buna-N and Poly urethane.

UNIT II

Electro Chemistry 13 periods

Electrode potential, Determination of single electrode potential; Nernst equation (problems); Electrochemical series – significance; Electro chemical cells, Reversible and irreversible cells, Reference electrodes – Standard Hydrogen electrode, Calomel electrode, Ion selective electrode (glass electrode) – measurement of pH:

Solar cells: Introduction, Solar Panels, Applications;

Fuel Cells: Hydrogen – Oxygen Fuel Cell;

Batteries: Lead – acid, NiCad and Lithium Batteries.

UNIT III: Corrosion and Corrosion Control 13 periods

Corrosion: Types of corrosion - Chemical or dry corrosion, Pilling – Bedworth rule; Electrochemical or wet corrosion: Galvanic corrosion, pitting, stress and differential aeration corrosion; factors influencing corrosion;

Corrosion control – sacrificial anodic method and impressed current cathodic methods, corrosion inhibitors; Protective coatings: Metallic coatings – electro plating (Au) and electroless plating (Ni). Paints – constituents and functions.

Green Chemistry: Principles and applications of green chemistry, Integrated Waste Management (IWM), Zero Waste Technologies (ZWT), green auditing, green solvents, green catalysts, green energies.

UNIT-IV: Analytical Techniques 12 periods

Beer-Lambert's law; **Colorimetry**: principle, instrumentation (with block diagram) and Estimation of iron, **Flame photometry**: principle, instrumentation (with block diagram) and estimation of sodium; Atomic Absorption Spectroscopy: principle, instrumentation (with block diagram) and estimation of nickel.

Conductometric titrations (Acid-Base) and Potentiometric titrations (Redox titrations – Fe^{2+} vs dichromate).

TOTAL: 50 PERIODS

TEXT BOOKS:

1. P.C. Jain and Monica Jain, "Engineering Chemistry" Dhanpat Rai Pub. Co., New Delhi 15th edition (2010).

REFERENCES:

1. S.S. Dara & Mukkanti K. "A text book of engineering chemistry" S. Chand & Co. Ltd., New Delhi (2006).
2. B. Sivasankar "Engineering Chemistry" Tata McGraw Hills co., New Delhi (2008).
3. Dr. B. K. Sharma, Instrumental methods of analysis, Krishna Prakashan Media, 2000.

23/07/16 (Prof. M.V.B. Rao)

N. Srinivasu (Prof N. SRINIVASU)

G VENKATA RAO

J. Venkateswara Rao 23/7/2016

BAPATLA ENGINEERING COLLEGE; BAPATLA

Syllabus

Semester 1 Code: CYL01 for ChE, CSE, IT, EIE, ME branches

Semester 2 Code: CYL02 for CE, ECE, EEE branches

ENGINEERING CHEMISTRY LABORATORY

With effect from 2016-17

3 periods: Credits; 1.5

LIST OF EXPERIMENTS

1. **Introduction to Chemistry Lab** (the teachers are expected to teach fundamentals like Calibration of Volumetric Apparatus, Primary, Secondary Solutions, Normality, Molarity, Molality etc. and error, accuracy, precision, theory of indicators, use of volumetric titrations).

2. **Volumetric Analysis:**
   a. Estimation of Washing Soda.
   b. Estimation of Active Chlorine Content in Bleaching Powder
   c. Estimation of Mohr's salt by permanganometry.
   d. Estimation of Magnesium by EDTA method
3. **Analysis of Water:**
   a. Determination of Alkalinity of Tap water.
   b. Determination of Total Hardness of ground water sample by EDTA method
   c. Determination of Salinity of water sample
4. **Estimation of properties of oil:**
   a. Estimation of Acid Number
   b. Estimation of Saponification value
5. **Preparations:**
   a. Preparation of Soap
   b. Preparation of Urea-formaldehyde resin
   c. Preparation of Phenyl benzoate
6. **Demonstration Experiments (Any two of the following):**
   a. Determination of p^H of given sample by different methods.
   b. Determination of conductivity of given sample by conductometer.

TEXT BOOKS (for Chemistry 1 and 2):

1. Practical Engineering Chemistry by K.Mukkanti, Etal, B.S. Publicaitons, Hyderabad.
2. Inorganic quantitative analysis, Vogel.

REFERENCE BOOKS:

1. Text Book of engineering chemistry by R.n. Goyal and Harrmendra Goel.
2. A text book on experiments and calculations- Engineering Chemistry, S.S. Dara.
3. Instrumental methods of chemical analysis, Chatwal, Anand, Himalaya Publications.

23/07/2016
(Prof. M.V.B.Rao)

Prof N.SRINIVAS

23/7/2016

BAPATLA ENGINEERING COLLEGE::BAPATLA

I/IV B.Tech Degree Examinations 2016-2017

Engineering Chemistry-I 16CY103

Semester-I, Model Paper

Time: 03 hrs. *Max* Marks: 60

Answer all questions *5 x12=60M*

Question 1 is compulsory

1. **Answer the following** 12X1=12M
   a. Differentiate between scale and sludge.
   b. Name indicators used in estimation of alkalinity.
   c. What is temporary hardness?
   d. What is meant by disinfection?
   e. What is condensed phase rule?
   f. What is triple point?
   g. What is meant by higher & lower calorific value of a fuel?
   h. What is cracking?
   i. What is carbonization?
   j. Define refractories?
   k. What is the significance of determining the pour point of a lubricant?
   l. What are fiber reinforced composites?

Unit-I

2. a). Explain in detail the Lime-soda process (one method) in softening the hard water. 6M
   b). 100 ml of water sample on titration with N/50 HCl, requires 8.0 ml of the acid to Phenolphthalein end-point and 9.0ml of the acid to methyl orange end-point. Calculate the type and extent of alkalinity present in the water sample. 6M

OR

3. a). What are sludges. Discuss their formation in boilers, ill-effects and methods to prevent their formation. 6M
   b). Write about Phosphate and Carbonate conditioning methods. 6M

Unit-II

4. a. What is meant by desalination? Explain electro dialysis process for desalination of brackish water. 6M
   b. Explain break point chlorination and give its significance. 6M

OR

5. a. Explain Phase rule. Discuss the water system with neat diagram. 6M
   b. Explain the study of cooling curves in Bi-Cd system with neat diagrams 6M

Unit-III

6. a. Explain the determination of calorific value of a fuel by Bomb calorimeter. 6M
   b. Discuss about Proximate analysis of coal. 6M

OR

7. a. What are the various fractions obtained from petroleum? Mention their composition and uses. 6M
   b. Write short notes on LPG and Octane number. 6M

Unit-IV

8. a. Explain about porosity and thermal spalling. 6M
   b. Write short notes on constituents of composites. 6M

OR

9. a. Discuss the mechanism of lubrication? 6M
   b. Explain briefly about Viscosity index, Fire point & Flash point. 6M

23/07/16
V. Venkateswara Rao
23/7/2016

N. Srinivas

C. Vasanta
(C VENKATARAO)

BAPATLA ENGINEERING COLLEGE::BAPATLA

I/IV B.Tech Degree Examinations 2016-2017

Engineering Chemistry-II 16CY203

Semester-II, Model Paper

Time: 03 hrs. *Max* Marks: 60

Answer all questions *5 x12=60M*

Question 1 is compulsory

1. Answer the following 12X1=12M
   a. Define the term polymer
   b. What are the monomers of Bakelite?
   c. Write the structure of Buna-N
   d. What is the working principle of an electrochemical cell?
   e. What is ion selective electrode? Give example.
   f. What is the cell potential of NiCad battery.
   g. Among the tin and zinc, which gives better protection to iron?
   h. What is an over voltage?
   i. Name one ecofriendly liquid or solvent.
   j. What is Beer-Lamberts law?
   k. What is potentiometry?
   l. Name the gas filled in hollow cathode lamp of AAS.

Unit-I

2. a). Explain the mechanism of free radical addition polymerization. 6M
   b). Write the differences between thermoplastics & thermosetting resins 6M

OR

3. a). What are the draw backs of natural rubber?. Explain the process of vulcanization of rubber. What are its advantages? 6M
   b). Write the preparations, properties and uses of i) Buna-S ii) Buna-N rubber. 6M

Unit-II

4. a. Discuss origin of electrode potential. Derive Nernst equation. 6M
   b. A cell constructed by coupling a zinc electrode dipped in 0.5M $ZnSO_4$ Nickel electrode dipped in 0.05M $NiSo_4$ Calculate the EMF of cell, given that standard reduction potential of Zn and Ni as -0.76V and -0.25 V respectively. 6M

OR

5. a. Explain the construction and working of Lead acid battery. 6M
   b. Define fuel cell. Explain the construction and working of H_2-O_2 fuel cell 6M

Unit-III

6. a. Discuss the electrochemical theory of corrosion in detail. 6M
   b. Write short note on galvanic corrosion and pitting corrosion. 6M

OR

7. a. What are corrosion inhibitors? Explain the use of inhibitors in control of corrosion. 6M
   b. Give the applications of green chemistry. 6M

Unit-IV

8. a. Give a brief procedure for the estimation of iron using colorimetry. 6M
   b. Discuss principle and instrumentation of flame photometry. 6M

OR

9. a. Discuss about conductometric titrations with strong acid-strong base. 6M
   b. Explain the Estimation of iron by potentiometric titration method. 6M

23/07/16 N. Srinivasly C. VENKATA RAO

J. Venkateswara Rao 23/7/2016

The chairman of the BOS thanked the members for their valuable and constructive suggestions before concluding the meeting.

Chairman
BOS

1. Dr. V. Madhava Rao (HOD, Chairman-BOS)
2. Prof. C. Venkata Rao (External)
3. Prof. M.V. Basaveswara Rao (External) 23/07/16
4. Prof N. Srinivasulu (External) N. Srinivasulu
5. Dr T. Venkateswara Rao members T. Venkateswara Rao 23/7/16
6. Dr K. Prasada Rao "
7. Dr Ch. Subramanyam "
8. Dr. A. Gopal "
9. Dr V. Syamala "
10. Dr N. Srinivas "
11. Mrs V. Krishnaveni " 23/7/16
12. Mr S. Mohan " 23/7/16
13. Mrs P. Priyadarsini "
14. Dr K.V.V. Prasada Rao (External) Not Attended
15. Mrs K. Sailatha " Not Attended
16. Mrs.,

BAPATLA ENGINEERING COLLEGE (Autonomous); BAPATLA

CIVIL ENGINEERING DEPARTMENT

Minutes of the Board of Studies Meeting

The meeting of the Board of Studies in Civil Engineering is conducted on 23-07-2016 at 9.00AM to discuss the following agenda.

Agenda

1. To review syllabus of Engineering Mechanics (Common to all branches)
2. To introduce Massive open online courses (MOOCs) in R14 curriculum.
3. To discuss and modify the elective courses in seventh and eight semester scheme in R14 curriculum.
4. To discuss and finalize the experts related to the examinations during the academic year 2016-17.

The following were present in the meeting:

1.	Dr.Ch.Naga Satish Kumar	Chairman
2.	Dr.T.D.Gunneswara Rao	External Member
3.	Dr.K.Srinuvasa Rao	External Member
4.	Sri Sri A.Vasubabu	External Member
5.	Sri K Nageswara Rao	External Member
6.	Dr.T.Chandrasekhar Rao	Internal Member
7.	Dr.Ch.Maruthi Devi	Internal Member
8.	Sri P.Bapi Raju	Internal Member
9.	Sri Y Ravi	Internal Member
10.	Sri S.Ganapathi Prasad	Internal Member
11.	Sri T.Chiranjeevi	Internal Member
12.	Sri Y.Murali Krishna	Internal Member
13.	Sri T.Santhi sagar	Internal Member

After detailed deliberations, the following decisions were taken.

1. It is resolved to approve the revised syllabus of Engineering Mechanics subject common to B.Tech First year course i.e. all branches.

2. It is resolved to introduce Massive open online courses (MOOCs) in R14 curriculum and also suggested that, better to introduce MOOCs either in third year or final year level in place of laboratory course i.e. two credit course.

3. The BOS has unanimously approved the scheme of instruction and syllabus for third and final year B.Tech Civil Engineering course i.e. R14 regulation.

4. The Chairman, Board of Studies is authorized to prepare the model question papers and finalize the panel of paper setter for external examinations.

Dr.Ch.Naga Satish Kumar

Chairman,
Board of Studies in Civil Engineering.

or to all members

14EM105

ENGINEERING MECHANICS
(Common to all branches)

Lectures	:	4 Periods/Week, Tutorial: 1	Continuous Assessment	:	40
Final Exam	:	3 hours	Final Exam Marks	:	60

UNIT – I

Concurrent Forces in a Plane

Principles of statics – Composition and resolution of forces – Equilibrium of concurrent forces in a plane –Method of moments.

Parallel Forces in a Plane

Two parallel forces – General case of parallel forces in a plane – Center of parallel forces – Centroids of composite plane figures and curves

UNIT – II

Moments of Inertia of Plane Figures

Moment of inertia of a plane figure with respect to an axis in its plane – Moment of Inertia with respect to an axis perpendicular to the plane of the figure – Parallel axis theorem

General Case of Forces in a Plane

Composition of forces in a plane – Equilibrium of forces in a plane – Plane trusses: method of joints.

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UNIT – III

Friction

Characteristics of friction – problems involving dry friction

Rectilinear Translation

Kinematics of rectilinear motion – principles of dynamics – Differential equations of rectilinear motion D'Alemberts principle – momentum and impulse – work and energy – ideal systems: conservation of energy

UNIT – IV

Curvilinear Translation

Kinematics of curvilinear motion – Differential equations of curvilinear motion – D'Alembert's principle – Work and Energy.

Moments of Inertia of Material Bodies

Moment of inertia of a rigid body – Moment of inertia of a lamina – Moments of inertia of three – dimensional bodies.

Rotation of a Rigid Body about a Fixed Axis

Kinematics of rotation – Equation of motion for a rigid body rotating about a fixed axis – D'Alembert's principle

NOTE

Two questions of 12 marks each will be given from each unit out of which one is to be answered. Twelve questions of one mark each will be given from entire syllabus which is a compulsory question.

TEXT BOOK

1. Engineering mechanics by S. Timoshenko and D. H. Young – Mc Graw-Hill International edition (For concepts and symbolic problems)
2. Engineering mechanics statics and dynamics by A. K. Tayal – Umesh publication, Delhi (For numerical problems using S.I. system of units

REFERENCE BOOKS

1. Vector mechanics for engineers statics and dynamics by Beer and Johnston, Tata Mc Graw-Hill publishing company, New Delhi
2. Engineering mechanics statics and dynamics by R. C. Hibbeler and Ashok Gupta - Pearson (For numerical problems using S.I. system of units)

BAPATLA ENGINEERING COLLEGE::BAPATLA

(AUTONOMOUS)

DEPARTMENT OF ENGLISH

MINUTES OF MEETING OF BOARD OF SUTDIES, ENGLISH ON 23 JULY, 2016

Members Present:

1. Dr. P.Asha Madhavi, Chairman.
2. Prof. K.Ram Chandra, Member.
3. Prof. M.V Raghu Ram, Member.
4. Smt.Ch.Mangamma, Member.
5. Internal Members:
    a. Mr. N. Sudheer Kumar, Member.
    b. Mr. P.V.N. Malleswara Rao, Member.
    c. Dr. Shabreen Sultana, Member.
    d. Mr. K. Kalyan Kumar, Member.
    e. Mr.Ch. Suresh, Member.
    f. Mrs. K. Venkata Lakshmi, Member.
    g. Mr. M. Chandra Sekhar, Member
    h. Mr. M. Veeraiah, Member.

Members Absent:

1. Prof. K. Ratna Shiela Mani, Member
2. Mr. K.Sai Krishna, Member

The following are the minutes of BOS Meeting:

1. The syllabus Proposed for ¼ B.Tech (theory and Lab) for the academic year 2016-17 has been approved by the BOS with some valuable suggestions.

2. The syllabus Proposed for V and VI Semesters of III B.Tech Soft Skills Lab for the academic year 2016-17 has been approved by the BOS with some valuable suggestions.

3. The syllabus Proposed for VII semester of IV B.Tech (theory and Lab) for the academic year 2017-18 has been approved by the BOS with some valuable suggestions.

4. Names of the external paper setters for Communicative English paper for the ¼ B.Tech were suggested by the members of the BOS.

Suggestions made by the members of the BOS:

Prof. Rama Chandra Kalluri:

a. The lesson plan should reflect the number periods required to teach each unit.
b. Range of words should be mentioned in the vocabulary part in each unit.
c. To develop the Course objectives and see that minimum of 40% of it matches with the program objectives of the course.
d. Report writing shall be confined to Technical report writing.
e. Letter writing shall be taught with the specification to complaints, requests etc.
f. The word "Small Talk" used in the ECS lab syllabus shall be replaced with "Conversation Gambits".
g. "*Technical Communication*" by Ashraf Rizivi can be used as a reference book for ECS Lab in ¼ B.Tech.
h. SWOT shall be replaced with SWOC in the syllabus of SS LAB.
i. Oral presentations in BCPS lab shall be replaced with Seminar Talk and Power Point Presentations.
j. The progression of number units from first year to final year shall be consistent. There shall not be any kinky progression.

Prof. M. Raghu Ram:

a. The feedback taken from the students shall be the criteria for the changes in the syllabus.
b. Apart from the course objectives, outcome of each unit shall be prepared.
c. The range of the words to be learnt in each unit shall be mentioned clearly.
d. The maximum number of words in the vocabulary units in ECS Lab shall not exceed 400 words.
e. Writing covering letters shall be taught along with Résumé writing.
f. E-mail writing shall be moved from theory to lab as it will give an ample opportunity for the students to practice on computer.
g. The first Unit in ECS lab can be omitted as it is theoretical.

Names of the identified Paper setters for Communicative English Paper:

a. Dr. A. Purna Chandra Rao, Associate Professor, PVP Siddhartha Institute of Technology, Vijayawada.
b. Dr. Vidhyadar, Associate Professor, RVR&JC Engineering College, Guntur.
c. Dr. Sujith Kumar Dutt, Associate Professor, LBRCE, Vijayawada.
d. Dr. Vijaya Lakshmi, Gudlavalleru Engineering College, Gudlavalleru.
e. Dr. M. V. Raghu Ram, VVIT, Guntur.

3. The rubric to conduct internal and external examinations is left to the Department of English, BEC.

Minutes approved by

Dr P. Asha Madhavi
HoD & Chairman, BOS

Copy to Principal
Copy to Academic Council
Copy to Dean, Academics

BAPATLA ENGINEERING COLLEGE
(AUTONOMOUS)
Department of English

Syllabus for Communicative English
I B.Tech (Theory)

Lectures: 3+1 Periods/Week
Sem End Exam Duration: 3 hours

Continuous Assessment: 40M
Sem End Exam : 60M

Course Schedule: I B.Tech – I Semester (EEE, ECE, and Civil)
I B.Tech – II Semester (Ch. E, IT, CSE, EIE, and ME)
Credits: 3

UNIT-I

a. **Text: Unit-I** Going Places: Travel
   Unit-II Reaching Out: Mass Media
b. **Grammar:** Review of Parts of Speech, Concord
c. **Writing:** Mind Mapping, Paragraph Writing : Structure, Development & Types
d. **Vocabulary** from the suggested units (Given List)

UNIT- II

a. **Text: Unit-III** Ushering in a New Era: Networking
   Unit-IV Inspiring Minds: Successful People
b. **Grammar:**Tenses, Conditionals
c. **Writing:** Essay Writing: Descriptive, Argumentative, Imaginative, Narrative
d. **Vocabulary** from the suggested units (Given List)

UNIT- III

a. **Text: Unit-V** Morphed Universe**:** Technology as a double Edged Sword
   Unit-VI The Indomitable Human Spirit: Facing Disasters
b. **Grammar:** Articles, Reported Speech, Voices
c. **Writing:** Letter Writing (Inquiry, Complaint & Request Letters) & Summarizing
d. **Vocabulary** from the suggested units (Given List)

UNIT- IV

a. **Text: Unit-VII** Getting Job Ready: Interview Skills
   Unit-VIII The World of Work: The Corporate Experience
b. **Grammar:** Common Errors
c. **Writing:** Note Making, Technical Report Writing
d. **Vocabulary** from the suggested unit (Given List)

Prescribed Text

Dr Elango, Dr Veena Selvam, Dr Priyadarshini Sujatha (2013): Resonance: English for Engineers and Technologists, CUP.

References:

Michael Swan (2003): Practical English Usage, CUP.
Stephen, McLaren (2003): Easy Writer Student's Guide to Writing Essays and Reports, New Delhi, Viva Books Pvt.
Raymond Murphy (2012): English Grammar in Use (Fourth Edition), CUP.
Lina Mukhopadhyay (2013): English for Jobseekers, CUP.
R.C Sharma (2010): Business Correspondence and Report writing (Fourth Edition), Tata Mc Graw Hill.

BAPATLA ENGINEERING COLLEGE
(AUTONOMOUS)
Department of English

Syllabus for English Communication Skills Lab
I B.Tech (Lab)

Lectures: 3 Periods/Week | Continuous Assessment: 40M
Sem End Exam Duration: 3 hours | Sem End Exam : 60M

Course Schedule: I B.Tech – I Semester (EEE, ECE, and Civil)
I B.Tech – II Semester (Ch. E, IT, CSE, EIE, and ME)
Credits: 2

UNIT-I: Functional English
Introducing Yourself & Others-Greeting & Parting-Congratulating-Giving Suggestions & Advices-Expressing Opinions-Inviting People-Requesting-Seeking Permission-Giving Information- Giving Directions- Sympathizing-Convincing People-Complaining-Apologizing-Thanking Others- Shopping-Travelling- Conversational Gambits.

UNIT-II
Phonetics (Oral drills) - Stress- Rhythm & Intonation.

UNIT-III Vocabulary Development & Oratory Skills
Classified Vocabulary- Idioms - Phrasal verbs - Words often confused- Analogous words- Corporate Words - JAM- Elocution- Debate.

UNIT-IV Manners and Etiquette
Giving & Receiving Feedback -Telephone Etiquette - Gender Sensitive Language.

Reference Books:
J.D. O' Connor (1984): Better English pronunciation Cambridge University Press
Jack C Richards (2015): New Interchange (4rth Edition) , CUP.
Grant Taylor (2001: English Conversation Practice, Mc Graw Hill.
Micheal Mc Carthy, Felicity O Dell (1994): English Vocabulary in Use, CUP.

Software:
Buzzers for conversations, New Interchange series
English in Mind series, telephoning in English
Speech Solutions, A course in Listening and Speaking
Face to Face series

BAPATLA ENGINEERING COLLEGE
(AUTONOMOUS)
Department of English

Syllabus for Soft Skills Lab
II/III B.Tech (Lab)

Lectures: 3 Periods/Week
Sem End Exam Duration: 3 hours

Continuous Assessment: 40M
Sem End Exam : 60M

Course Schedule: II B.Tech – I Semester (IT, CSE)/II Semester (Civil)
III B.Tech – I Semester (Ch. E, EEE, ME)/II Semester (ECE, EIE)
Credits: 2

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1. BODY LANGUAGE & Life Skills

a. Facial Expressions – Kinesics - Oculesics
b. Haptics - Proxemics
c. Para Linguistics
d. Positive Attitude
e. Time Management
f. Goal Setting: Short term, Long Term, Vision, Mission.

2. EMOTIONAL INTELLIGENCE

a. Self Awareness through Johari Window and SWOC analysis
b. Self Control
c. Self Motivation
d. Empathy
e. Social Skills
f. Self Esteem
g. Managing stress & Assertiveness

3. PROBLEM SOLVING SKILLS

a. Critical Thinking and Brain Storming
b. Lateral Thinking and Six Thinking Hats
c. Creative Thinking
d. Conflict Management

4. EMPLOYABILITY SKILLS

a. Group Discussion
b. Team Building and Leadership Qualities
c. Resume Writing & Covering Letter
d. Interview Skills
e. Email Writing.

Reference Books:

Barun K. Mithra (2016): Personality Development and Soft skills (Second Edition), OUP.
Allan & Barbara Pease (2004): The Definitive Book Of Body Language, Pease International.
Shiv Khera (1998): You Can Win, MacMilan.
Meenakshi Raman, Sangeetha Sharma (2011): Technical Communication: Principles and Practice, OUP.
Daniel Goleman (1998): Working with Emotional Intelligence, Bloomsbury.
Lina Mukhopadhyay (2013): English for Jobseekers, CUP.
Stephen R.Covey (2014): The 7 Habits of Highly Effective People, St. Martin's Press, New York

BAPATLA ENGINEERING COLLEGE
(AUTONOMOUS)
Department of English

Business Communication and Presentation Skills Lab
IV/IV B.Tech (Lab)

Lectures: 2 Periods/Week | Continuous Assessment: 20M
Sem End Exam Duration: 2 hours | Sem End Exam : 30M

Course Schedule: IV B.Tech – I Semester
Common to All Branches
Credits: 2

Unit-I

Identity Management Communication: – Face to Face Impression Management & Mediated Communication (Self Introduction & Self Promoting– Over Stating and under stating – Strategies to Overcome Communicative Inhibitions – Creating Positive Self image through words - Appearance-Verbal and Non Verbal Manners) – Giving Polite Yet Assertive Responses – Responsive strategies to handle criticism - Accepting Failure and Declaring Success.

Unit-II

Business Presentations: – Seminar Talk and Power Point Presentations -Preparing Successful Presentations - Assessing Audience - Making Effective Use of Visual Aids - Delivering Presentation - Using Prompts - Handling Questions and Observations - handling Interruptions - Mock Presentations.

Unit-III

Oratory Skills: – Group Discussion – Extempore - Mock Parliament and Mock Press.

Unit-IV

Interview Management: – Customising Resume - Types of Interviews - Preparing for Interviews - Facing Interviews - Handling Tough & Tricky Questions - Reviewing Performance - Participating In Mock Interviews – Telephonic & Web Based interviews (Skype or Hangouts etc...)

Reference Books

Barun K. Mithra (2016): Personality Development and Soft skills (Second Edition), OUP.
Meenakshi Raman, Sangeetha Sharma (2011): Technical Communication: Principles and Practice, OUP.

DEPARTMENT OF MECHANICAL ENGINEERING
BAPATLA ENGINEERING COLLEGE, BAPATLA

MINUTES OF THE MEETING OF THE BOARD OF STUDIES

23.07.2016.

Minutes of the meeting of the Board of studies held on 23.07.2016. at 10.30 A.M.in the Mechanical Engineering Department, Bapatla Engineering College , Bapatla.

The following points are on the agenda for discussion:

1) To restructure the scheme of instruction of 2014 regulation.
2) To apprise the members of BOS about the changes those are to be incorporated in the 2014 regulation.
3) To get the approval from the board of studies members for the changes to be done in 2014 regulation

The following are the recommendations / outcomes of the meeting:

1) It is resolved to shift the Machine dynamics subject from Third Year, VI Semester **to** Third Year, V semester.
2) It is resolved to shift the professional ethics subject from Third Year, V Semester **to** Final Year, VIII semester.
3) It is decided to shift Automation Technology subject and Lab from Fourth Year, VIII Semester **to** III Year, VI Semester.
4) It is resolved to shift Finite Element Analysis from Final Year, VII semester Elective to Third Year VI semester Core subject
5) It is decided to add Manufacturing Engineering subject, Third year, VI semester(named as Advanced Manufacturing Engineering) as one of Elective II
6) To introduce CAD/CAM subject in place of Computer Aided Manufacturing in Final year, VII semester
7) It is decided to combine CAD modeling lab (Third Year ,VI semester) and CAE Lab (Fourth Year , VII Semester) in to CAD & CAE Lab and to introduce the same in Fourth Year, VII Semester
8) BOS members has given the approval for restructuring the scheme of instruction of 2014 regulation

THE BOARD OF STUDIES MEMBERS PRESENT FOR THE MEETING:

NAME	ADDRESS	SIGNATURE
1) Dr.M.Venkateswara Rao	Professor &Head, Mech Engg Dept, BEC, Chairman,BOS	23/07/16
2) Dr.A.Venu Gopal	Professor, Mech Engg Department, National Institute of Technology, Warangal – 506 004.	23/7/16
3)Dr V.Bala Krishna Murthy	Professor, Mech Engg Department, V.R Siddhartha Engineering College, Vijayawada.	23/7/16
4)Dr K.Ravindra	Professor& Head, Mech Engg Dept, RVR& JC College of Engineering, Chowdavaram. Guntur.	23/7/16
5) Dr.K.Srinivas,	Professor, Mech Engg Department, RVR& JC College of Engineering, Chowdavaram. Guntur.	23/7/16

FACULTY MEMBERS OF MECHANICAL ENGINEERING DEPARTMENT PRESENT FOR THE MEETING

S.NO.	NAME OF THE STAFF MEMBER	DISIGNATION	SIGNATURE
1	Sri. V.C.A.VARA KUMAR	PROFESSOR	
2	Dr. B. RAVI SANKAR	PROFESSOR	
3	Dr Ch. LAKSHMISRINIVAS	PROFESSOR	
4	Dr S.NANCHARAIAH	PROFESSOR	
5	Sri T.SIVA SANKAR	ASSOCI ATE PROF	
6	Sri G.KANTHA PRASAD	ASSOCI ATE PROF	
8	Sri K.PRASADA RAO	ASSOCI ATE PROF	
9	Sri D.NARAYANA CHOWDARY	ASSOCI ATE PROF	
10	Sri K.SRINIVASARAO	ASSISTANT PROF	
11	Sri P.UMA MAHESWARAO	ASSISTANT PROF	
12	Sri S.VIJAY	ASSISTANT PROF	
13	Sri B.I.HUSSIAN	ASSISTANT PROF	
14	Smt. J.LAXMI LALITHA	ASSISTANT PROF	
15	Sri Y. NARENDRA BABU	ASSISTANT PROF	
16	Sri S. KRUGON	ASSISTANT PROF	
17	Sri. S. RAVI KUMAR	ASSISTANT PROF	
18	Sri. D.VIJAY PRAVEEN	ASSISTANT PROF	
19	Sri M. PARDHA SARADHI	ASSISTANT PROF	
20	Sri K. RAJA SEKHARA BABU	ASSISTANT PROF	
21	Sri A.PRAVEEN	ASSISTANT PROF	
22	Sri V.SRINIVASULU	ASSISTANT PROF	
23	Sri KM MAHESH	ASSISTANT PROF	
24	Sri A.RAHIM	ASSISTANT PROF	
25	Sri N.RAJESH	ASSISTANT PROF	
26	Sri K.SESHAGIRI RAO	ASSISTANT PROF	
27	Sri M. SUBRAMANYAM	ASSISTANT PROF	
28	Sri SURESH	ASSISTANT PROF	
29	Sri B.Visweswara	ASSISTANT PROF	

23/07/2016

Dr M.Venkateswara Rao
Chairman,BOS
Professor & Head, Mech Engg
Bapatla Engg College
Bapatla

BAPATLA ENGINEERING COLLEGE : BAPATLA

(Autonomous)

SCHEME OF INSTRUCTION & EXAMINATION (Semester System)

For

Mechanical Engineering

With Effective From 2014-2015 Academic Year

First Year B.Tech., (SEMESTER – I)

Code No.	Subject	Scheme of Instruction (Periods per week)					Scheme of Examination (Maximum marks)			No. of Credits
		L	T	P	S	Total	CIE	SEE	Total Marks	
14MA101	Engineering Mathematics – I	4	1	0	0	5	40	60	100	4
14PH102	Engineering Physics – I	4	0	0	0	4	40	60	100	3
14CH103	Engineering Chemistry – I	4	0	0	0	4	40	60	100	3
14EL104	English Language and Communication	4	0	0	0	4	40	60	100	3
14ES105	Environmental Studies	4	0	0	0	4	40	60	100	3
14EG106	Engineering Graphics	4	0	2		6	40	60	100	4
14CHL101	Chemistry Lab	0	0	3	0	3	40	60	100	2
14ELL102	English Language Laboratory	0	0	3	0	3	40	60	100	2
14WSL103	Workshop	0	0	3	0	3	40	60	100	2
	TOTAL	24	1	11	0	36	**360**	**540**	**900**	**26**

CIE: Continuous Internal Evaluation SEE: Semester End Examination

L: Lecture S: Self Study T: Tutorial P: Practical

BAPATLA ENGINEERING COLLEGE : BAPATLA
(Autonomous)
SCHEME OF INSTRUCTION & EXAMINATION (Semester System)
For
Mechanical Engineering
With Effective From 2014-2015 Academic Year
First Year B.Tech., (SEMESTER – II)

Code No.	Subject	Scheme of Instruction (Periods per week)					Scheme of Examination (Maximum marks)			No. of Credits
		L	T	P	S	Total	CIE	SEE	Total Marks	
14MA201	Engineering Mathematics – II	4	1	0	0	5	40	60	100	4
14PH202	Engineering Physics – II	4	0	0	0	4	40	60	100	3
14CH203	Engineering Chemistry – II	4	0	0	0	4	40	60	100	3
14EE204	Basic Electrical and Electronics Engineering	4	0	0	0	4	40	60	100	3
14EM205	Engineering Mechanics	4	1	0	0	5	40	60	100	4
14CP206	Computer Programming with C	4	0	0	1	5	40	60	100	3
14PHL201	Physics lab	0	0	3	0	3	40	60	100	2
14HWL202	Hardware Lab	0	0	3	0	3	40	60	100	2
14CPL203	Computer Programming Lab.	0	0	3	0	3	40	60	100	2
	TOTAL	24	2	9	1	36	360	540	900	26

CIE: Continuous Internal Evaluation SEE: Semester End Examination
L: Lecture S: Self Study T: Tutorial P: Practical

BAPATLA ENGINEERING COLLEGE : BAPATLA

(Autonomous)

SCHEME OF INSTRUCTION & EXAMINATION (Semester System)

For

Mechanical Engineering

With Effective From 2014-2015 Academic Year

Second Year B.Tech., (SEMESTER – III)

Code No.	Subject	Scheme of Instruction (Periods per week)					Scheme of Examination (Maximum marks)			No. of Credits
		L	T	P	S	Total	CIE	SEE	Total Marks	
14MA301	Engineering Mathematics-III	4				4	40	60	100	3
14ME302	Mechanics of Materials-I	4	1			5	40	60	100	4
14ME303	Basic Thermodynamics	4	1			5	40	60	100	4
14ME304	Fluid Mechanics	4				4	40	60	100	3
14ME305	Kinematics of Machines	4	1			5	40	60	100	4
14ME306	Machine Drawing	1		3		4	40	60	100	2
14MEL301	Fuels & Oils Lab			3		3	40	60	100	2
14MEL302	Basic CAD Lab			3		3	40	60	100	2
14CEL303	Strength of Materials Lab			3		3	40	60	100	2
	TOTAL	21	3	12		36	360	540	900	26

CIE: Continuous Internal Evaluation SEE: Semester End Examination

L: Lecture S: Self Study T: Tutorial P: Practical

BAPATLA ENGINEERING COLLEGE : BAPATLA

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SCHEME OF INSTRUCTION & EXAMINATION (Semester System)

For

Mechanical Engineering

With Effective From 2014-2015 Academic Year

Second Year B.Tech., (SEMESTER – IV)

Code No.	Subject	Scheme of Instruction (Periods per week)					Scheme of Examination (Maximum marks)			No. of Credits
		L	T	P	S	Total	CIE	SEE	Total Marks	
14MA401	Engineering Mathematics-IV	4				4	40	60	100	3
14ME402	Mechanics of Materials-II	4	1			5	40	60	100	4
14ME403	Applied Thermodynamics	4	1			5	40	60	100	4
14ME404	Hydraulic Machines	4			1	5	40	60	100	3
14ME405	Casting, Forming and Welding Technology	4				4	40	60	100	3
14ME406	Material Science &Metallurgy	4				4	40	60	100	3
14CEL401	Fluid Mechanics & Hydraulic Machines Lab			3		3	40	60	100	2
14MEL402	Computer Applications In Mechanical Engineering Lab			3		3	40	60	100	2
14MEL403	Basic Manufacturing Processes Lab			3		3	40	60	100	2
	TOTAL	24	2	9	1	36	360	540	900	26

CIE: Continuous Internal Evaluation SEE: Semester End Examination

L: Lecture S: Self Study T: Tutorial P: Practical

BAPATLA ENGINEERING COLLEGE : BAPATLA

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SCHEME OF INSTRUCTION & EXAMINATION (Semester System)

For

Mechanical Engineering

With Effective From 2014-2015 Academic Year

Third Year B.Tech., (SEMESTER – V)

Code No.	Subject	Scheme of Instruction (Periods per week)					Scheme of Examination (Maximum marks)			No. of Credits
		L	T	P	S	Total	CIE	SEE	Total Marks	
14ME501	Machine Dynamics	4	1			5	40	60	100	4
14ME502	Design of Machine Elements-I	4	1			5	40	60	100	4
14ME503	I.C.engines & Gas Turbines	4				4	40	60	100	3
14ME504	Metal Cutting and Machine Tools	4				4	40	60	100	3
14ME505	Operations Research	4			1	5	40	60	100	3
14ME506	Elective-I	4				4	40	60	100	3
14MEL501	I.C.Engines lab			3		3	40	60	100	2
14MEL502	Machine shop practice			3		3	40	60	100	2
14ELL503	Soft skills lab			3		3	40	60	100	2
	TOTAL	24	2	9	1	36	360	540	900	26

CIE: Continuous Internal Evaluation SEE: Semester End Examination

L: Lecture S: Self Study T: Tutorial P: Practical

Elective-I

A. Engineering Economics and Accountancy
B. Computer Graphics
C. Mechanics of Composite materials

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SCHEME OF INSTRUCTION & EXAMINATION (Semester System)

For

Mechanical Engineering

With Effective From 2014-2015 Academic Year

Third Year B.Tech., (SEMESTER – VI)

Code No.	Subject	Scheme of Instruction (Periods per week)					Scheme of Examination (Maximum marks)			No. of Credits
		L	T	P	S	Total	CIE	SEE	Total Marks	
14ME601	AutomationTechnology	4				4	40	60	100	3
14ME602	Design of Machine Elements-II	4	1			5	40	60	100	4
14ME603	Heat transfer	4	1			5	40	60	100	4
14ME604	Finite Element Analysis	4			1	5	40	60	100	3
14ME605	Electronics& Micro processors	4				4	40	60	100	3
14ME606	Elective –II	4				4	40	60	100	3
14MEL601	H.T. lab			3		3	40	60	100	2
14MEL602	Automation lab			3		3	40	60	100	2
14ECL603	Electronics lab			3		3	40	60	100	2
	TOTAL	24	2	9	1	36	360	540	900	26

CIE: Continuous Internal Evaluation SEE: Semester End Examination

L: Lecture S: Self Study T: Tutorial P: Practical

Elective-II

A. Manufacturing Engineering
B. R&AC
C. Solar energy and Utilization

BAPATLA ENGINEERING COLLEGE : BAPATLA

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SCHEME OF INSTRUCTION & EXAMINATION (Semester System)

For

Mechanical Engineering

With Effective From 2014-2015 Academic Year

Final Year B.Tech., (SEMESTER – VII)

Code No.	Subject	Scheme of Instruction (Periods per week)					Scheme of Examination (Maximum marks)			No. of Credits
		L	T	P	S	Total	CIE	SEE	Total Marks	
14ME701	Industrial Engineering and Enterpreneurship Development	4				4	40	60	100	3
14ME702	Design of Machine Elements-III	4	1			5	40	60	100	4
14ME703	Engineering metrology and Mechanical Measurements	4	1			5	40	60	100	4
14ME704	CAD/CAM	4				4	40	60	100	3
14ME705	Elective-III	4				4	40	60	100	3
14ME706	Open Elective	4				4	40	60	100	3
14ELL701	Business Communication & Presentation Skills Lab			2		2	20	30	50	1
14MEL702	CAD&CAE Lab			3		3	40	60	100	2
14MEL703	Design and Metrology Lab			3		3	40	60	100	2
14MEL704	Term Paper			2		2	20	30	50	1
	TOTAL	24	2	10		36	360	540	900	26

CIE: Continuous Internal Evaluation SEE: Semester End Examination

L: Lecture S: Self Study T: Tutorial P: Practical

Elective-III

A. Operations Management
B. Computational Fluid dynamics
C. Mechatronics

Open Elective

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SCHEME OF INSTRUCTION & EXAMINATION (Semester System)
For
Mechanical Engineering
With Effective From 2014-2015 Academic Year
Final Year B.Tech., (SEMESTER – VIII)

Code No.	Subject	Scheme of Instruction (Periods per week)					Scheme of Examination (Maximum marks)			No. of Credits
		L	T	P	S	Total	CIE	SEE	Total Marks	
14ME801	Professional Ethics & Human values	4				4	40	60	100	3
14ME802	Automobile Engineering	4	1			5	40	60	100	4
14ME803	Elective-IV	4				4	40	60	100	3
14ME804	Elective-V	4				4	40	60	100	3
14MEPR801	Project Work			12		12	50	100	150	10
14MEL802	CAM Lab			3		3	40	60	100	2
	TOTAL	16	1	15		32	250	400	650	25

CIE: Continuous Internal Evaluation
L: Lecture S: Self Study
SEE: Semester End Examination
T: Tutorial P: Practical

Elective-IV
A. Power plant Engineering
B. Optimization Techniques
C. Computer Integrated Manufacturing

Elective-V
A. Robotics
B. Computer aided Process Planning
C. Enterprise Resource Planning

Annexure-1

LIST OF OPEN ELECTIVES

DEPARTMENT	SUBJECT NAME	SUBJECT CODE
Chemical Engineering.	Industrial Pollution & Control	CH 01
	Energy Engineering	CH 02
Civil Engineering.	Air Pollution & Control	CE 01
	Remote Sensing & GIS	CE 02
Computer Science & Engineering.	Database Management Systems	CS 01
	Java Programming	CS 02
Electrical & Electronics Engineering.	Optimization Techniques	EE 01
	Non-Conventional Energy Sources	EE 02
Electronics & Communication Engineering.	Consumer Electronics	EC 01
	Embedded Systems	EC 02
Electronics & Instrumentation Engineering.	Virtual Instrumentation Using LABVIEW	EI 01
	Sensors & Transducers	EI 02
Information Technology.	Mobile Application Development	IT 01
	Web Technologies	IT 02
Mechanical Engineering.	Automobile Engineering	ME 01
	Refrigeration & Air Conditioning	ME 02
BOSCH REXROTH Centre	Automation Technology	BR 01

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Minutes of the meeting of Board of Studies in Electrical & Electronics Engineering held on 23rd 2016 at 10.30 AM in the Chamber of the Head, Department of Electrical and Electronics Engineering, Bapatla Engineering College, Bapatla.

Members Present for the Meeting:

1. Dr.G.Ravi kumar — Chairman
   Head of the Department
   EEE Department
   Bapatla Engineering College
   Bapatla.

2. Dr. P.V. Ramana Rao — Member
   EEE Department
   ANU College of Engineering and Technology
   Nagarjuna Nagar- 522510.
   Email: pvr_eee@yahoo.co.in

3. Dr. K. Chandrasekhar — Member
   Professor & HOD
   EEE Department
   RVR& JC College of Engineering
   Chowdavaram
   Guntur-522019.
   Email: cskoritala@rvrjcce.ac.in

4. Dr. O.Chandrasekhar — Member
   Professor & HOD
   EEE Department
   Koneru Lakshmaiah Univesity,
   Vaddeswaram, Vijayawada
   Ph: 9440343273

5. Mr. Y. Suresh Kumar — Member
   Assistant Divisional Engineer
   NTTPS, APGENCO,
   Vijayawada
   Ph: 9493120627
   Mail: suryaapgenco1@gmail.com
   suryaapgenco1@gmail.com

6. Mr. M. Tirupataiah, M.Tech — Member
   Assistant Professor,
   Chaitanya Bharathi Institute of Technology,
   EEE Department
   Hyderabad
   Ph: 9963181845
   Mail: m.tirupathy@gmail.com

Date: 22/07/2016

The following items were on the agenda for discussions:

1)To discuss about inclusion of industry oriented theory and laboratory courses to improve technical and soft skills of students.

2) To discuss about inclusion of any new topic in present existing syllabus.

3) Any item to be discussed.

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EEE Department

The following faculty members of EEE Department were present during the BOS Meeting.

S.No	Name of the Staff Member	Designation	Signature
1	Dr. G. Ravi Kumar	Professor	
2	Smt. N.Rama Devi	Assoc. Prof.	
3	Mr. K.Ramesh	Asst. Prof	
4	Mr. N.Karthik	Asst. Prof	
5	Mr. Ch.Sridhar	Asst. Prof	
6	Mrs. K.Kamala Devi	Asst. Prof	
7	Mr. G.Rajesh	Asst. Prof	
8	Mr. B.Shanker	Asst. Prof	
9	Mr. P.Sampath Kumar	Asst. Prof	
10	Mr. Ch.Hari Prasad	Asst. Prof	
11	Mr. T.Ramesh Kumar	Asst. Prof	
12	Mr. J.Pardhasaradhi	Asst. Prof	
13	Mr. G.Anil Kumar	Asst. Prof	
14	Mr. N.Bala Krishna	Asst. Prof	
15	Mr. B.Vijaya Krishna	Asst. Prof	
16	Mr. J.Ravindra	Asst. Prof	
17	Mr. M. Durga Prasada Rao	Asst. Prof	
18	Mr. B. Praveen Kumar	Asst. Prof	
19	Mr. M. Suresh Babu	Asst. Prof	
20	Mr. SK. Karimulla	Asst. Prof	
21	Ms. M. Nagendra	Asst. Prof	
22	Mr. M. Sivaramakrishna	Asst. Prof	
23	Mr. I. V. Raghavendra	Asst. Prof	
24	Mr. K. Rajendra	Asst. Prof	
25	Ms. D. Nagalakshmi	Asst. Prof	
26	Mr. P. Vamsi Krishna	Asst. Prof	
27	Mr. G. Sai Goutham	Asst. Prof.	
28	Mr. M. Vasu	Asst. Prof.	
29	Mr. S. Chiranjeevi	Asst. Prof.	
30	Mr. P. .Karimulla	Asst. Prof.	

Chairman, B.O.S after welcoming the members for the meeting, presented the details of the agenda to the members.

The following resolutions were made in the Board of Studies meeting on 23/07/2016 at 12.30 PM.

1) The scheme of instructions along the syllabus for 2-1, 2-2, 3-1, 3-2, 4-1 & 4-2 semesters of B.Tech course in EEE commenced from 2014-15 was thoroughly discussed, formulated and with some modifications in the syllabus.

2) The chairman of B.O.S is authorized to finalize the model papers, papers setters and examiners for the above mentioned course in the item 1.

3) Modifications suggested by the committee is enclosed

The chairman of B.O.S thanked the members before concluding the meeting.

Chairman, Board of Studies
&
Head , EEE Department
Bapatla Engineering College
Bapatla- 522 101.

Copy to:

The Principal, Bapatla Engineering College, Bapatla
President, Bapatla Education Society, Bapatla.
Secretary, Bapatla Education Society, Bapatla.
Members, Board of Studies

Modifications suggested to implement as detailed below

1) In 4-1 semester utilization of Electrical Power 14EE702 subject is shifted to 3-1 semester and make the subject as Elective-I and replace it in the place of non-conventional energy sources 14EE506(D).

2) In 3-1 semester Elective subject 14EE506(D) Non-conventional Energy sources titled changed as Conventional Energy sources with modification of syllabus and make it as core subject places in 4-1 semester in place of 14EE703.

3) In 2-2 semester in Network Analysis & Synthesis a new topic Fourier Series is to be added.

4) In 3-2 semester 14EE603 Electrical Measurements & Instrumentation syllabus should be reviewed , in 3-1 semester 14EE502 Control System subject a new topic compensation technique is added in unit-III and in 4-2 semester 14EE803(A) High voltage Engg. Subject syllabus in all units 8 topics are introduced.

5) They are proposed for internship training programming at the end of 3rd year.

6) They are proposed for on line exams should be introduces in the curriculum with multiple choice questions.

7) Promoting on line exams in 3rd & final year courses.

8) To promote the latest technology to the students in their own departments by make use of power point presentations.

RENEWABLE ENERGY SOURCES
14EE801
III B.Tech-VIII Semester

Lectures: 4 Periods/Week	Tutorial: 0	Self Study: 0	Practical's: 0
Continuous Internal Evaluation:40M		Semester End Examination(3 Hours) : 60M	

UNIT-I [Text Book- 1]

Principle of Renewable Energy: Comparison of renewable and conventional energy sources - Ultimate energy sources - natural energy currents on earth - primary supply to end use - Spaghetti & Pie diagrams-energy planning-energy efficiency and management. (9)

UNIT-II [Ref. Book-2]

Solar Radiation: Extra terrestrial solar radiation - terrestrial solar radiation

- solar thermal conversion-solar thermal central receiver systems - photovoltaic energy conversion - solar cells - 4 models. **(11)**

UNIT-III [Text Book- 1, Ref. Book- 2]

Wind energy: Planetary and local winds - vertical axis and horizontal axis wind mills - principles of wind power - maximum power - actual

power - wind turbine operation - electrical generator. (13)

UNIT-IV [Ref. Book- 1]

Energy from Oceans: Ocean temperature differences - principles of OTEC plant operations - wave energy - devices for energy extraction - tides - simple single pool tidal system.

Geothermal Energy: Origin and types - Bio fuels - classification - direct combustion for heat and electricity generator - anaerotic digestion for biogas - biogas digester - power generation. (16)

TEXT BOOKS:

1. *Renewable Energy Sources by John Twidell& Toney Weir : E&F.N. Spon*
2. *Renewable Energy Sources: Their impact on global warming and pollution by Abbasi & Abbasi –PHI*

REFERENCE BOOKS:

3. Power plant technology by EL-Wakil, McGraw-Hill.
4. Non-Conventional Energy Sources by G.D.Rai, Khanna Pub.

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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

23/07/16

Minutes of the Board of Studies meeting held on 23-07-2016 at 10:00 AM in the chambers of the Chairman, Board of Studies.

Members present at the meeting

1. Prof. V. Chakradhar,
   Head, Dept. of Computer Science & Engg.,
   B.E.C., Bapatla. — Chairman

2. Dr. E. Sreenivasa Reddy,
   Dean,
   ANU College of Engineering & Technology,
   Nagarjuna Nagar, Guntur – 522510. — Member

3. Dr. M. Sreelatha,
   Head, Dept of CSE,
   R.V.R & J.C. College of Engineering,
   Chowdavaram, Guntur. — Member

Prof. DVLN Somayajulu, Dept. of CSE, NITW, Mr. S. Vamsi Krishna, Senior Executive, HCL Technologies, Pune and Mrs. K. Mahathi, Software Developer, Flipkart India Pvt. Ltd. could not attend the meeting.

The following items were on the agenda for discussion:

1) Introduction of new courses in R10 and R14 curriculum, on Cyber Security and Data Analytics as per the MOU with NASSCOM and APSSDC.
2) Introduction of Online Certification Courses (MOOCs) as part of Term Paper in 7th Semester.
3) Distribution of Semester End Examination answer scripts to students for verification.

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Chairman, BOS after welcoming the members for the meeting, presented the details of the agenda to the members.

The following resolutions were passed in the BOS meeting:

1. Modifications to R10 and R14 curriculum, as proposed by internal members of BOS to introduce new courses on Data Analytics and Cyber Security as per the MOU with NASSCOM and APSSDC, were approved.

2. Introduction of Online Certification Courses (MOOCs) as part of Term Paper in 7th Semester was approved.

3. The members were appraised of the procedure being followed for the distribution of Semester End Examination (SEE) answer scripts to students, which was appreciated by the external members.

4. The chairman is authorized to finalize the model paper, paper setters and examiners for each subject in B.Tech. Computer Science & Engineering Curriculum.

5. The Chairman is authorized to convene the departmental committee meeting to do any minor changes in the scheme or syllabus with the approval of the committee.

The Chairman, BOS thanked the members before concluding the meeting.

V. C

Prof. V. CHAKRADHAR
Chairman, Board of Studies &
Head, Dept. of Computer Science & Engg.,
Bapatla Engineering College, Bapatla.

Copy to:
The Principal, Bapatla Engineering College,
PA to The President, Bapatla Education Society,
Members, Board of Studies.

INTRODUCTION TO DATA ANALYTICS & CYBER SECURITY

CS/IT 323

B.Tech., (Semester- VI)

Lectures : 4 Periods/Week Continuous Evaluation : 40

Final Exam : 3 hours Semester End Exam : 60

UNIT – I (13 Periods)

Introduction to Analytics & R Programming: Introduction to Analytics, Knowing Language R, Using R as a calculator, Understanding components of R, reading database using R, Importing & Exporting CSV, working on variables, outliers and missing data treatment, combining datasets using R, Discuss functions and loops,

Summarizing the Data & Revisiting Probability: summery statistics-summarizing data with Probability, expected values, Random and bivariate random variables, probability distribution, normal distribution, central limit theorem, random walk

UNIT – II (12 Periods)

Correlation Regression Analysis: Basic Regression Analysis, OLS regression, Regression Modeling, Regression Residuals, Correlation, Heteroscedasticity, autocorrelation & multi collinearity, Introduction to multiple regressions, dummy variables.

Understanding verticals-Engineering, financial and others, Requirement gathering.

SQL using R

UNIT-III (13 Periods)

Information security management: Information Security Overview, Information Security Threats and Attack Vectors, Types of Attacks, Common Vulnerabilities and Exposures (CVE), Security Attacks, Computer Security Concerns, Information Security Measures.

Fundamentals of Information security: Key Elements of Network, Logical Elements of Network, Critical Information Characteristics, Information States.

UNIT – IV (12 Periods)

Information security policies, procedures and audits: Information Security Policies, Security Policy Implementation, Security Policy Configuration, Security Standards, Guidelines & Frameworks, Domains of ISO 17799, Security Standards Organizations, Information Security Laws, Regulations & Guidelines.

Information security Management-Roles & Responsibilities: Security Roles & Responsibilities, Accountability – Information Security Roles and Responsibilities.

REFERENCE BOOKS:

1. Security Analysis web resource:
   url: https://jumpshare.com/v/CUOssnNkE6cW9YGcGz2p
2. Data Analysis web resource:
   1. url:https://www.dropbox.com/sh/6vlvfyx0xjdavjm/AABCvl1uwsceC9dnY0gVbRda?dl=0
   "Your UNIX the ultimate guide", Sumitabha Das, TMH, 2nd edition.
   2. "Advanced UNIX programming", Marc J. Rochkind, 2nd edition, Pearson Education.

Data Analytics-1
CS/IT 411

Lectures	:	**4 Periods/Week,Tutorial:1**	**Continuous Assessment**	:	**40**
Final Exam	:	**3 Hours**	**Final Exam**	:	**60**

UNIT-1

Big Data Analytics: Introduction to Big Data Analytics, what and why analytics, Applications of modeling business, data modeling techniques overview.

Simple Hypothesis Testing :Using the Student's t-test ,Two-Sample t-Test with Unequal Variance , Two-Sample t-Test with Equal Variance ,One-Sample t-Testing ,Using Directional Hypotheses ,Formula Syntax and Subsetting Samples in the t-Test ,The Wilcoxon U-Test (Mann-Whitney) ,Two-Sample U-Test ,One-Sample U-Test ,Using Directional Hypotheses ,Formula Syntax and Subsetting Samples in the U-test, Paired t- and U-Tests, Correlation and Covariance ,Simple Correlation ,Covariance ,Significance Testing in Correlation Tests .

Unit-II

Machine Learning: Cluster Analysis-common steps in cluster analysis, calculating distances, Hierarchical cluster analysis, Partitioning cluster analysis, avoiding nonexistence clusters.
Classifications-preparing the data, logistic regression, decision trees, random forests, support vector machines, choosing a best predictive solution, using the rattle package for data mining.

Unit-III

The Hadoop Distributed File System-The design of HDFS,HDFS concepts, The command line interpreter , Basic File system operations, hadoop file system,interfacesData flow, parallel copying with distcp.
YARN-Anatomy of YARN application run, YARN compared to Map Reduce 1, Scheduling in YARN

Unit-IV

How Map Reduce Works-Anatomy of Map Reduce job run, Failures, Shuffle and sort, Task execution.
Map Reduce Features-Counters, sorting, joins side data distribution

Text Books:

1. Beginning R: The Statistical Programming Language, Dr.Mark Gardener (**6th Chapter**)(Unit-1)
2. R in Action by Robert I kabacoff, Manning Publisher (Chapter 16 & 17)(Unit-2)
3. Hadoop, The Definitive Guide, 4th Edition, O"Reilly Publisher(Unit-III & Unit-IV)

CYBER SECURITY

CS/IT 414

Lecture: 3 Periods/Week, Tutorial: 1 **Continuous Assessment:** 40
Final Exam: 3 hours **Final Exam Marks:** 60

UNIT-1 **(15 periods)**

Introduction: The OSI Security Architecture, Security Attacks, Security Services, Security Mechanisms, A Model for Network Security.

Classical Encryption Techniques: Symmetric Cipher Model, Substitution Techniques, Transposition Techniques, Rotor Machines, Steganography.

Symmetric algorithms for encryption: **DES:** short history of DES, basic structure of DES, building elements of DES, round keys generation process.

UNIT-2 **(16 periods)**

Symmetric algorithm for encryption: AES: short history of AES, basic structure of AES, transformations used by AES, key expansion process

Information Security Performance Metrics: Introduction - Security Metrics, Characteristics of good metrics, Types of Security Metrics, Using Security Metrics

Case studies: NIST sample security metrics, Static Malware Analysis IoCs

Information Security Audit: Defining IT Audit, Risk Analysis, Internal Controls, Steps of an IT Audit, Preparing to be audited

Information Security Audit Case Studies: Firewall Security Auditing (iptables), IDS Security Auditing (snort), Social Engineering Auditing (setoolkit).

UNIT-3 **(16 periods)**

Asymmetric algorithm for encryption: RSA crypto system

Vulnerability Management: The problem, what is Vulnerability Management, challenges to effective VM, successful approaches

Management Case Studies: Vulnerability Scanning and Assessment (nessus), Nmap, Metasploit

UNIT-4 **(13 periods)**

Configuration Reviews: Configuration Management, Testing for Configuration Management, Identifying and implementing configurations

Configuration Reviews Case Studies: IDS snort, Firewalls- iptables, Windows System Security Configuration Review (MBSA).

TEXT BOOK:

1. William Stallings "**CRYPTOGRAPHY AND NETWORK SECURITY**" 4th Edition, (PearsonEducation/PHI).

2. SSC/ Q0901 –" **Security Analyst**" .

REFERENCE BOOKS:

1. Behrouz A.Forouzen, "**Cryptography & Network Security**", TMH.

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Main Building

Library, Computer & Administrative Block

General Engineering Block

Civil & Mechanical Block

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Dr. N.SUDHAKAR, Ph.D.
PRINCIPAL

Ref.: -BEC/Autonomous/AC/1433 Date: October 16, 2015.

Minutes of the 6th Academic Council (Autonomous) Meeting

6th College Academic Council (Autonomous) Meeting was held on Saturday, 10.10.2015 at 10.00 a.m. in the Conference Hall of the College Administrative Block.

Members Present in the Meeting:

Chairman:

1. Dr. N.Sudhakar, Principal, Bapatla Engineering College & Chairman, College Academic Council

All HoDs:

2. Dr. J.Srinivasa Rao, Chemical Engineering.
3. Dr. Ch.Naga Satish Kumar, Civil Engineering.
4. Prof. V.Chakdradhar, Computer Science and Engineering.
5. Dr. B.Chandra Mohan, Electronics and Communication Engineering.
6. Dr. G.Ravi Kumar, Electrical and Electronics Engineering.
7. Prof. Ch.Ramesh, Electronics and Instrumentation Engineering.
8. Prof. N.Sivarama Prasad, Information Technology.
9. Dr. M.Venkateswara Rao, Mechanical Engineering.
10. Sri. K.N.Prasad, MCA.
11. Dr. N.Prabhakar Rao, Mathematics
12. Dr. K.Rama Krishna Rao, Physics
13. Dr. V.Madhava Rao, Chemistry
14. Sri. N.Sudheer Kumar, English.

Experts from outside the College:

Members-Academic/Industry:

15. Sri.Chetan Rajdev, Dy.General Manager, Bosch Rexroth India Ltd, Bengaluru.
16. Sri. M.Sri Krishna, Senior Consultant, TCS Ltd. Hyderabad.
17. Prof. G.Nageswara Rao, Principal, ASN College of Engg. For Women, Tenali.
18. Prof. K.Lakshmi Prasad, Principal, GITAM College of Engg., Vishakapatnam.

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Nominees of the University:

19. Dr. K.Gangadhara Rao, Department of Computer Science, Acharaya Nagarjuna University.

Co-opted Member from the College:

20. Sri. D.Narayana Chowdary, Associate Professor, Mechanical Engineering and Head, Placements.

Members of the Faculty of the College:

21. Dr. N.Venkateswara Rao, Professor, Department of E.C.E
22. Sri. T.Siva Sankar, Assoc. Professor, Mechanical Engineering Department.
23. Smt. J.Venkata Lakshmi, Assoc.Professor, Department of EIE.
24. Sri. N.Karunakar, Asst.Professor, Department of Mathematics.

Members requested for leave of Absence for the Meeting:

Members-Academic/Industry:

1. Dr. S.R.Parimi, Educationalist and Structural Engineer, Jabili Clinic, Poranki.
2. Sri E.V.S.Sai Babu, Vice-President & Head, Talent Acquisition, Wipro Technologies, Bengaluru.
3. Sri. D.Rama Krishna, Managing Director, Efftronics Systems Pvt. Ltd., Vijayawada.

Nominees of the University:

4. Prof. N.Veeriah, Department of Zoology, Acharya Nagarjuna University,
5. Prof. P.Siddhaiah, Principal, University College of Engineering, Acharya Nagarjuna University.

Proceedings:

The Principal and the Chairman, Academic Council Dr. N.Sudhakar welcomed all the members for 6th Academic Council meeting.

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Minutes of the Meeting:

1. **To apprise the members about the progress of Autonomous System and achievements of the college during the academic year 2014-2015.**

   Dr. N.Sudhakar, Chairman of the Academic Council, has apprised the members about the progress and the achievements of the Bapatla Engineering College during the Academic year 2014-15, which included:

   I. Results.
   II. Achievements of the Students and Members of the faculty.
   III. Placements.
   IV. Conferences and workshops conducted by various departments.
   V. Research and Developmental activities.
   VI. Industry-Academia collaboration.
   VII. MoU arrived with APSSDC & NASSCOM.

2. **To discuss and review the existing Academic Regulations-2014**

   Members of the Academic Council have unanimously approved the amendments made to the rules and regulations of Academic Regulation 2014.

3. **To discuss and review the Scheme of Instruction and Syllabi proposed by the Boards of Studies of all the departments.**

   Members of the Academic Council have approved the Schema and Syllabus of 2/4, 3/4 and 4/4 B.Tech. of various departments that have been presented by the respective Heads of the Departments.

   Academic council has acceded to call for (if required) BOS meetings of the departments to make changes (if any) to the scheme and syllabus of Academic Regulation of 2014.

   Members suggested to review the title of a Course (named as Electronics) in the scheme of Mechanical Engineering.

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4. **Nomination of subject experts for the Board of Studies of various departments and their approval.**

   Members of the Academic council have approved the Nomination of Subject Experts for the Board of Studies of various departments and their constitution.

5. **Any other subject with the permission of the Chair.**

   Members of the Academic Council have approved the minutes of the 6th Academic Council Meeting held in August 2014.

   The members of the academic council have made the following suggestions to improve upon the standards of the curriculum. The suggestions are:

   I. To offer internship programmes by using the research centres available in the institute to the students of the college and the nearby colleges.

   II. To adopt choice based credit system into the curriculum.

   III. To limit the 8th semester exclusively to the research project in the curriculum.

   IV. To offer open/regular courses related to the following fields of Digital Technology: Artificial intelligence, social networking, cloud computing, Data Analytics and Design of Algorithms.

   V. To adopt the credit based scheme for promoting the students rather than subject based scheme.

(D.Narayana Chowdary)
Member Secretary

(Dr. N.Sudhakar)
Principal, BEC &
Chairman, Academic Council

To:

All the esteemed members of the Academic Council (Autonomous).

Copy to:

1. The President, Bapatla Education Society.
2. The Vice-President, Bapatla Education Society.
3. The Secretary, Bapatla Education Society.

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BAPATLA ENGINEERING COLLEGE
(AUTONOMOUS)

Minutes of The 5th College Academic Council (Autonomous) Meeting

5th College Academic Council Meeting (Autonomous) was held on Saturday, 23-08-14 at 10.30 A.M. in the Conference hall of the College Administrative Block.

Members present in the Meeting:

1. Dr. Shashidhar K. Kudari, Principal & Chairman of College Academic Council

Deans & HODs

2. Dr. B.Chandra Mohan, Dean-Academics
3. Dr. Sk.Nazeer, Dean-Administration
4. Dr. I.Rambrahmam, Dean-Research
5. Dr. K.Rama Krishna, HOD-Physics and Dean-Student Affairs
6. Dr. N.Sudhakar, Head-Research Park
7. Dr. J.Srinivasa Rao, HOD-Biotechnology & Chemical and Dean-Controller of Exams
8. Dr. Ch.Naga Satish Kumar, HOD-Civil Engineering
9. Prof. V.Chakradhar, HOD-Computer Science & Engineering
10. Sri. N.Katheek ,I/C HOD-Electrical & Electronics Engineering
11. Prof. Ch.Ramesh, HOD-Electronics & Instrumentation Engineering
12. Prof. N.Sivarama Prasad, HOD-Information Technology
13. Dr. M.Venkateswara Rao, HOD-Mechanical Engineering
14. Sri K.N.Prasad, HOD-MCA
15. Dr. N.Prabhakara Rao, HOD-Mathematics
16. Dr. V.Madhava Rao, HOD-Chemistry
17. Sri K.Siva Koteswara Rao, HOD-English
18. Prof. N.Venkateswara Rao, HOD-Electronics & Communcation Engineering Department

Experts from outside the college

19. Sri Chetan Rajdev, Sr.Manager, Bosch Rexroth India Ltd.
20. Sri D.Rama Krishna, Managing Director, Efftronics Systems Pvt. Ltd.
21. Prof. G.Nageswara Rao, Principal, ASN College of Engg. for Women, Tenali.
22. Prof. K.Lakshmi Prasad, Principal, GITAM College of Engg., Rushikonda, Vizag.
23. Dr. S.R.Parimi, Ex-Principal, Bapatla Engineering College.

Co-opted Members from the college

24. Sri P.Vinod Babu, Associate Professor, E.I.E. Department-Member Secretary

Faculty Members

25. Dr. N.Rama Gopal, Professor-Chemical Engineering
26. Prof. V.C.A.Vara Kumar, Professor Mechanical Engineering Department
27. Sri G.Kiran Kumar, Asst. Professor, Chemical Engineering Department

Members requested for leave of absence for the Meeting:

1. Sri Phani Kondepudi, The Centre for Research & Innovation Exchange (Tcrix).
2. Sri Murali Krishna.M, CEO, Jytra Engg. Services.
3. Sri M.Srikrishna, Senior Consultant, TCS Ltd..
4. Dr. A.Sudhakar, Principal, RVR & JC College of Engg., Chowdavaram, Guntur.
5. Dr. P.Siddaiah, Dean, Faculty of Engg., Acharya Nagarjuna University
6. Dr. E.Srinivasa Reddy, Principal, ANU College of Engg. & Technology

Proceedings

The Principal and the Chairman, Academic Council Prof. Shashidhar K. Kudari welcomed all the members for 5th Academic Council meeting.

1. To Confirm the Minutes of 4th Meeting held on 04-01-2014.

Minutes of the 4th Academic Council meeting were confirmed by the members.

2. To discuss the action taken report on minutes of the meeting held on 04-01-2014

The action taken report on the minutes of the meeting held on 04-01-2014 was confirmed.

3. College report by Principal.

Principal Prof. Shashidhar K. Kudari, presented the College Report for the academic year 2013-14.

4. To ratify the Scheme of Instruction/Syllabi proposed by the board of studies of various departments for 2014-15 batch.

The scheme and syllabus modifications proposed by various Boards of Studies (BoS) are ratified by the council. Prof. Parimi felt that the scheme and syllabus of 3rd semester to 8th semester Civil Engineering need some modifications, and the same shall be taken for the discussion in the next meeting.

5. Report of Innovation centre by Head, Research Park.

Head, Research Park Prof. N. Sudhakar, presented a report on the activities carried out by various innovation centers for the academic year 2013-14.

Examination / Evaluation Related matter:

Controller of Examinations Prof. J. S Rao, presented the modifications needed and to be incorporated in Existing Evaluation system in Continuous Internal Assessment (CIE) and Semester End Examination (SEE) for the revised scheme and syllabus for the batch 2014. The same is accepted by the council to be implemented from 2014-15 batch.

The Principal and Chairman of College Academic Council Dr Shashidhar K. Kudari thanked all the members for their valuable suggestions.

P. Vinodh Babu 26/8/2014

(P.Vinodh Babu)
Member Secretary
College Academic Council (Autonomous)

Prof. Shashidhar K. Kudari 26/8/14
Principal

To: All esteemed members of the Academic Council
Copy to:

1. The President, Bapatla Education Society.
2. The Vice-President, Bapatla Education Society.
3. The Secrtary, Bapatla Education Society.