Tatyasaheb Kore Institute of Engineering and Technology, Warananagar (An Autonomous Institute, Affiliated to Shivaji University, Kolhapur)

Department of Chemical Engineering Board of Studies Meeting No.01

NOTICE

· 3rd April 2021

All the Honorable Board of Studies members of Chemical Engineering department are hereby informed that the First (01) BoS is convened on Saturday, 3rd April 2021 at 10.00AM in Vinayraoji Kore Krida & Sanskrutik Building Conference Hall. Therefore, you are kindly requested to make it convenient to attend the same.

Day & Date: Saturday, 3rd April 2021

Time: 10.00AM

Venue: Vinayraoji Kore Krida & Sanskrutik Building, Conference Hall

AGENDA

1.1 To welcome and approve the nomination of members in the BoS

- 1.2 To Discuss on objectives of First Meeting, duties and responsibilities of each
- 1.3 To discuss and approve the syllabi structure of III- VIIII semester of B.Tech Chemical Engineering.
- 1.4 To discuss and approve the syllabi structure and syllabus of I & II semester of M. Tech Chemical Engineering.
- 1.5 Approval of SY B Tech syllabus preparation to be implemented wef 2021-22
- 1.6 To discuss and approve the examination pattern, nature of question paper, submission of model answers and their pattern
- 1.7 To appoint the panel of Examination of III- VIIII semester of B.Tech and I-II semester of M.Tech courses and forward to Board of Examination.
- 1.8 Discussion on Honors course to be implemented from T.Y. B Tech.

1.9 Any other points with the permission of chair.

Prof. S.A.Desai Member Secretary

Prof. S.T.

HoD, Chemical Engineering

C.C. to:

All Chemical Engineering BoS Members

Tatyasaheb Kore Institute of Engineering and Technology, Warananagar (An Autonomous Institute, Affiliated to Shivaji University, Kolhapur)

Department of Chemical Engineering

Board of Studies Meeting No.01 and Resolution

Day & Date: Saturday, 3rd April 2021

Time: 10.00AM

Venue: Vinayraoji Kore Krida & Sanskrutik Vikas Kendra ,Building, Conference Hall

AGENDA

- 1.1 To welcome and approve the nomination of members in the BoS
- 1.2 To Discuss on objectives of First Meeting, duties and responsibilities of each members 1.3 To discuss and approve the syllabi structure of III- VIIII semester of B.Tech Chemical Engineering.
- 1.4 To discuss and approve the syllabi structure and syllabus of I & II semester of M. Tech Chemical Engineering.
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- 1.8 Discussion on Honors course to be implemented from T.Y. B Tech.

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1.9 Any other points with the permission of chair.

WELCOME ADDRESS AND INTRODUCTORY REMARKS BY THE BoS Chairman

The Board of Studies of Chemical Engineering held on Saturday 3rd April 2021 at 10 am at Vinayraoji Kore Krida & Sanskrutik Vikas Kendra, Building, Conference Hall, TKIET campus, Warananagar. At the outset BoS Chairmen Prof. S.T.Patil and Prof. N.H.Shinde welcomed all the BoS members present for the first meeting (01 Meet) physically and Online. The following members were present

External Members:

Name

- 1. Dr. Amar L. Jadhav
- 2. Mr. Shashank Deshapande
- 3. Mr. Seshu
- 4. Dr. Mohan Rampure
- 5. Mr. Sunil Patil

Internal Members:

1. Dr. S.V. Anekar

Designation

Mode of Attend

VC Nominee S.U.Kolhapur Corporate Representive Corporate Representive PG Meritorious Alumnus PG Meritorious Alumnus

Physical Physical Online Online Online

Principal & Chairmen, Academic Council



Dr. K.I.Patil
Prof. S.T.Patil
Prof. J.K.Shinde
Prof. N.H.Shinde
Prof. S.A.Desai
Prof. V.A. Bhosale
Prof. P.J.Patil
Prof. P.B.Dehankar
Prof. S.U.Patil
Prof. Mrs. S.S.Patil

Dean Academic & BoS member HoD & BoS Chairman BoS member BoS member BoS member BoS member BoS member Invitee Invitee

The members who could not attend the meeting are as follows.

1.	Dr.Sanjay Mahajani	I.I.T. Powai
2.	Dr. Sanjay Kamble	N.C.L., Pune
3.	Dr. Srinivas Krishnaswami	B.I.T.' Goa Campus

- 1.1 To welcome and approve the nomination of members in the BoS Resolution: BoS Chairmen Prof. S.T.Patil and Prof. N.H.Shinde welcomed all the BoS members present for the first meeting physically and Online. And resolved to approve the nomination of BoS members.
- 1.2 To Discuss on objectives of First Meeting, duties and responsibilities of each Member.

Resolution: The objectives of BoS meeting was discussed to consider the agenda of first meet and to bridge the gap between the Industry & Academia and to set the syllabus structure & syllabi accordingly. BoS Chairmen deliberated the duties and responsibilities of each Member and resolved to approve the 1.2 agenda of BoS 01 meet.

1.3 To discuss and approve the syllabi structure of III-VIIII semester of B.Tech Chemical Engineering.

Resolution: All present BoS members have participated into the discussion of syllabi structure of III⁴VIII semester of B.Tech Chemical programme and suggested to check the credits distributed with the Apex body of Technical Institution & decision left to BoS chairmen and resolved to approve.

1.4 To discuss and approve the syllabi structure and syllabus of I & II semester of M. Tech Chemical Engineering.

Resolution: All present BoS members have participated into the discussion of syllabi structure of I-IV semester of M.Tech Chemical programme and suggested to check the credits distributed with the Apex body of Technical Institution & decision left to BoS chairmen and resolved to approve.

- 1. Mr. Shashank Deshpande, brought to the notice of the members that the MTech students should be given Teaching Assistant Program to assist BTech Projects.
- 2. Dr. Amar Jadhav advised that M.Tech students should present at least one paper in peer reviewed or any other journal.
- 3. Dr. Mohan Rampure suggested that in M.Tech students can give 1-2 teaching session to full class of final year students as a part of assignment.
- 1.5 Approval of S.Y. B. Tech syllabus preparation to be implemented with effect from 2021-22

Resolution: It has been discussed in BoS meet to prepare the courses & their syllabi of S.Y.B.Tech according to the requirement of Industry in concern with the constraints of University/ Institute/Department. The following members have suggested to incorporate (if possible) the certain courses throughout from III semester to VIII semester and syllabi & decision left to BoS chairmen and resolved to approve.

- 1. Mr. Shashank Deshpande, brought to the notice of the members that the students should be made aware of Open book exam, Instrumentation Products Like, Pressure transmitters, MOC for gaskets, pumps, flanges, reducers, Elbows. The student should be given the flavor of Industrial process safety ,6-Sigma, TQM, Lawa in the Industries, factory acts, Pollution board norms. He also added there should be defined methodology according to the schedule & some professional trainings should be given to the students. Student should visit the Exhibitions & exposes organized by Chemcon, IIChE etc. MTech students should be given Teaching Assistant Program to assist BTech Projects.
- Dr. Amar Jadhav brought to the notice of the members that the students should be made aware IoT, software's mostly used in industry like AutoCAD, Aspen, Hysis and PDMS.
- 3. Mr.Seshu Murty suggested that the approach to curriculum should bridge the gap between industry and academia & it should be application oriented .The industry connect should start from second year onwards. He suggested that Maths-IV can be reduced and more Chemistry such as operating chemistry, industrial chemistry, Engg.chemistry & organic chemistry should include. He added that industry oriented courses such as design & material at least two separate courses should be included (refer ICT Syllabus). The syllabus should include piping, economics, data analysis. Interpretation/instrumentation & analysis, electives should be industry oriented. Industry internship - more credits should be given & duration should be minimum 3 months. The experts from the industry should be called to guide the students and some part of lectures on syllabus such as fluid mechanics, distillation should be conducted. More industrial projects should be taken by the students to enhance the problem solving skills.

4. Dr.Mohan Rampure, addressed about limitations of change in syllabus & connect the books with professionals .The students should be aware of software such as Excel, Aspen & should have knowledge of GC, HPLC. The student should be given the inputs of writing emails /communication in course such as professional skills. Some awards should be kept for best mini / mega projects. The students should be given practical assignments such as to know how about sensors by reaching to vendors. Such assignments should include in each courses instead of theoretical assignments. Expert lectures should be arranged on PFD, P&ID etc. Dr. Mohan Rampure

suggested that in M.Tech students can give 1-2 teaching session to full class of final year students as a part of assignment.

- 5. Mr.Sunil Patil brought to the notice of the members that the students should be made aware of Aspen plus Simulation, Data Analysis, AI & ML, Introduction to python as an open elective. Assign industrial projects such as CO₂ Reduction, Carbon Capture, Carbon credit, Waste reduction, Toxic reduction since the industries are growing towards green energy, Hydrogen can be option for fuel. He suggested that some percentage (20 %) of the syllabus should include software's from the III semester to VIII semester such as PDMS, ASPEN, CFD, Modeling & simulation etc.
- 6. Dr. S.V.Anekar, Principal, Presented keynote address to all the BoS members & reviewed the difference between affiliated & autonomous status & also after every three years curriculum should be updated. The students should be aware of lifelong learning to fill the gap according to the change in technology & industry. The curriculum should focus on Entrepreneurship & startup. New fields such as nanotechnology, biotechnology, innovative materials should be added in the curriculum without hampering basic concepts and fundamentals of chemical engineering.
- 1.6 To discuss and approve the examination pattern, nature of question paper, submission of Model answers and their pattern

Resolution: All present BoS members have participated into the discussion of examination pattern, nature of question paper, submission of Model answers and their pattern and suggested that it is the internal & confidential matter and is to be decided by the Internal BoS members, BoS chairmen in concern with BoE and should be approved by BoS chairmen and resolved to approve.

1.7 To appoint the panel of Examination of III- VIIII semester of B.Tech and I-II semester of M.Tech courses and forward to Board of Examination.

Resolution: All BoS members have participated into the discussion on panel of Examination of III- VIIII semester of B.Tech and I-II semester of M.Tech courses and suggested that it is to be decided by the Internal BoS members, BoS chairmen in concern with BoE by keeping in mind the view of guidelines given by UGC and University and resolved to approve.

1.8 Discussion on Honors course to be implemented from T.Y. B Tech.

Resolution: It has been discussed and decided by all the BoS members though it has to be implementing from the Vth semester and thorough information is to be collected about the Honors degree, Credits to be assigned and the honors degree specialization. All the BoS members came to the common conclusion regarding honors course should include waste management technology (sustainability & circular economy) out off Bio Engineering, Aqua & Food, Green Chemistry BoS chairmen are agreed and decision on Honors degree is to be taken into the next BoS meet and resolved to approve.

1.9 Any other points with the permission of chair.

Resolution: All the BoS members came to the common conclusion the syllabi is to be prepared in such a way that to reduce the bridge the gap between the world of Academician and Corporate.

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> Saw Prof. S.T.Patil BoS, Chairman Chemical Engineering

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CC to:

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3. Member Secretary, Chemical Engg.

Tatyasaheb Kore Institute of Engineering and Technology, Warananagar (An Autonomous Institute, Affiliated to Shivaji University, Kolhapur)

Department of Chemical Engineering Board of Studies Meeting No.02

5th Sept 2021

NOTICE

All the Honorable Board of Studies members of Chemical Engineering department are hereby informed that the Second (02) BoS meet is convened on Sunday, 5th Sept. 2021 at 09.30AM in Computer Lab. Chemical Department . Therefore, you are kindly requested to make it convenient to attend the same.

Day & Date: Sunday, 5th Sept 2021 Venue: Computer Lab. Chemical Department

Time: 09.30AM

AGENDA

- 2.1 Confirmation of the minutes of last BoS meeting held on 3rd April 2021
- 2.2 Action taken report on the recommendations received in the last BoS and Academic Council meeting.
- 2.3 Discussion and Approval of the S.Y. B. Tech Syllabi Structure & Syllabi
- 2.4 Discussion and Approval of the M. Tech Second Year Syllabi Structure & Syllabi
- 2.5 Approving the panel of Examiners for paper setting (Three Names) and assessment for the courses in S.Y. B. Tech & Second Year of M. Tech Program.
- 2.6 Discussion on Major, Minor and Honor Degree Courses & its Credit Distribution
- 2.7 Discussion on the Structure and Syllabi of T. Y. & Final Year B. Tech Program
- 2.8 Any other points with the permission of chair

Prof. S.A.Desai Member Secretary

Prof. S.T.Patil HoD, Chemical Engineering

Shree Warana Vibhag Shikshan Mandal's

Tatyasaheb Kore Institute of Engineering and Technology, Warananagar

Department of Chemical Engineering

Date:- 5/9/2021

Minutes of the BoS meeting- 02

1 Prof. S.A.Desai, Member secretary of BoS, welcome all the honorable members of the meeting.

2.Prof. S.T.Patil ,Chairman of the meeting, Addressed about importance of BoS meeting and invited suggestions from members.

3.Dr. K.I.Patil, Dean Academic & Member of BoS, Delivered the objectives of BoS meeting & also presented Major, Minor and Honor courses in front of all BoS members.

4. Prof. P.J.Patil, TPO, addressed about Employment based Curriculum Should be incorporated e. g Coding, Python, IOT which will benefit the students placement in software company like Accenture, TCS etc.

5. Prof. V.A.Bhosale, Member of BoS, Presented the Minutes of BoS Meeting - 1

6.Prof. S.A.Desai, Member secretary of BoS , Presented the Action taken Report on BoS Meeting-1

7.Prof.S.S.Patil, Presented the syllabus structure & Syllabus of Sem-III & IV and invited suggestions from members. The Suggestions give in BoS-1 were incorporated in Advanced Chemistry, Analytical Chemistry, Applied Mathematics in Chemical Engg., Computer Programming, Computing for Engg & Material Science and MOC and were approved.

8. Prof. S.A.Desai, Member secretary of BoS, Presented the syllabus structure of Sem-V to VIII and Approved with suggestions .

9. Prof. N.H.Shinde, Member of BoS, Presented the syllabus structure & syllabus of M.Tech Sem-IV and Approved with suggestions.

10. Prof. S.T.Patil, Chairman of the meeting, Presented the Examiner Panel for S.Y.B.Tech & Approved by all BoS members

11. Prof.N.H.Shinde, Member of BoS, Presented the syllabus structure & syllabus of M.Tech Sem-I to Sem-IV and Approved with suggestions

12. Dr.Mohan Rampure, Mr.Seshu & Mr. Shashank Deshpande, brought to the notice of the members that Nuclear chemistry is less useful for the Chemical engg. Instead we can introduce Nano-chemistry, Chemical bonding and bit more organic chemistry. Seshu also focused on the subject Material Science and MOC should be 40-60% and Teflon, plastic, SS application oriented is to be included.

Mr.Sunil Patil added that more focus should be given on the assignments & C++ Language is sufficient in computer programming, If C Language is covered in F.Y.B.Tech.

Dr.Amar Jadhav brought to the notice of the members that IPR & Piping should be included in syllabus . For UG & PG internship external evaluator should be called from industry.

All External BoS Members suggested that Advanced Seperation Process can be kept as Elective & More industry exposure, Industry based projects, Internship as well as projects should be taken from industry. M.Tech curriculum should be focused on more practical oriented, Seminars, Industry exposure and R&D instead only theoretical

13. Dr. S.V.Anekar, Principal, Presented keynote address to all the BoS members. To improve the Quality of students, rigorous evaluation should be incorporated. It is challenging to run the PG Program but our faculty from different program are running the PG Program successfully. Sir has also appreciated the inputs given by BoS Members (External) & work done to improve the curriculum by making changes as per the industry and society and forwarded for academic council approval.

All the BoS members came to the common conclusion regarding implementation of the changed syllabus for Sem-III w.e.f Academic year 2021-2022

Prof. N.H.Shinde expressed a vote of thanks and the meeting was over.

Prof.S.A.Desai

Member Secretary

Dr. K.I.Patil

Academic Dean

Prof. S.T.Patil

Head & BoS Chairman



Warananagar, Tal- Panhala, Dist- Kolhapur -416 113. Maharashtra

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Department of Chemical Engineering

Board of Studies Meeting No. 03

Date: 11/02/2022.

NOTICE

All the Honorable Board of Studies members of Chemical Engineering Department are hereby informed that the third (03) meeting of BoS is scheduled on Friday, 18th Feb. 2022 at 9.30 am to 1.00 pm in Computer Lab (Online Mode). Therefore, you are kindly requested to make it convenient to attend the meeting.

Day & Date: - Friday, 18th Feb. 2022

<u>Time</u>:- 9.30 am to 1.00 pm

Venue :- Computer Lab, Chemical Department(Online Mode).

AGENDA

- 3.1 Confirmation of the minutes of last BoS meeting held on 5th Sept. 2021.
- 3.2 Action taken report on the recommendations received in the last BoS and Academic Council meeting.

3.3 Discussion and Approval of the T.Y. B. Tech Syllabus Structure & Syllabus (60-40)

- 3.4 Discussion and Approval of the M. Tech Syllabus Structure & Syllabus for (60-40)
- 3.5 Approving the panel of Examiners for paper setting (Three Names) and assessment for the courses in T.Y. B. Tech Program.

3.6 Discussion on Implementation of Internship in Final Year Program.

3.7 Discussion on Major, Minor and Honor Degree Courses & its Credit Distribution.

3.8 Discussion on the Structure and Syllabus of Final year B. Tech Program

3.9 Any other points with the permission of chair

Prof. S. A. Desai Member Secretary

Prof. S.T. Patil HOD Chemical Engg. Department

C.C. to: All Chemical Engineering BoS Members

Shree Warana Vibhag Shikshan Mandal's

Tatyasaheb Kore Institute of Engineering and Technology, Warananagar.

Department of Chemical Engineering Date:- 18/02/2022

Minutes of the BoS meeting- 03

3.1 Prof.S.A.Desai, Member secretary of BoS, welcome all the honorable members of the meeting.

3.2 Prof. S.T.Patil, BoS Chairman addressed about Objectives of BoS meeting and invited suggestions from members. He also shared the minutes and action taken report of BOS meeting-02 held on 5th sept 2021 and was approved.

3.3 Prof.S.A.Desai, presented the syllabus structure & Syllabus of Sem-V & VI of T.Y. B.Tech. and invited suggestions from external BOS members and to be modified accordingly.

Mr.Seshu, Dr.Amar Jadhav, Mr.Sunil Patil & Mr.Shashank Deshpande brought to the notice of the members that,

CRE-I & II

Syllabus is good, list of experiments are sufficient. Heterogeneous catalyst, Introduction to Base catalyst and catalyst deactivation should be included.

MT-I & II

Cooling tower theory and practical should be included either in MT-I or MT-II. In Distillation Ponchon savarit method should be focused.

Rules of thumb should be included somewhere but Prof.V.A.Bhosale brought to the notice that it can be included in CPD in the final year B.Tech program.

CED-I

Visits to different industries to give an exposure to the students regarding tall vessels and supports are to be organized.

AMCE

Different examples should be given batch wise & repetition should be avoided.

MINI PROJECT

Topics of the mini projects should not be repeated

ELECTIVE-I Advanced Industrial Software

Promax & Unisim Software can be considered for elective-I as a open source elective. **PLANT UTILITIES**

Topics covered are good, Chilling and vacuum equipment are to be included. **PDC**

Hardware parts of the controller, input/output, inside panel details are to be focused. Introduction to different PLC, SCADA, DCS control system should be included. Application of process control in industries can be added.

IEME

Units 1 to 4 must be merged into two units, Unit 1 Indian economy, Unit 2,3,4- Balance Sheet cost involved, etc. should combined. Unit 5 Expand on entrepreneurship, Chemical Engg. Startup Unit 3 and 4 should taken with the help of industrial expert.

PMST

The members focused that this course is good, Hazop study should be included and repetition of topics should be avoided.

PSL

Most of the practical are repeated, content should be changed and modified by industrial expert. **IP/Case Studies**

The list of industries (local and outside) visited was appreciated and mechanism of industrial visits is good.

3. 4 Prof.N.H.Shinde, presented the syllabus structure & syllabus of M.Tech Sem-I to Sem-IV for 60-40 pattern and minor changes were got approved .

3.5 Prof.S.S.Patil, presented the Examiner Panel for T.Y.B.Tech for paper setting and assessment & was approved by all BoS members.

3.6.Prof.P.B.Dehankar , presented implementation of internship in final year program. It was decided to have 6 to 8 weeks training after VI^{th} sem and in the final year $VIII^{th}$ sem, 3 months internship is recommended. Mentors feedback should be taken for the evaluation.

3.7 Prof. S.T.Patil presented the major, minor and honor degree courses and its credit distribution and also shared audit courses and audit points.

3.8 Prof. V.A.Bhosale presented Final year B.Tech program syllabus structure and got approved.

All External BoS Members suggested the changes as per included in the above minutes and will be incorporated into the curriculum based on the limitation of the change should no exceed 10 to 15 %.

Prof. S.T.Patil, BoS Chairman, Greeted to all the BoS members and assured to improve the Quality of students, rigorous evaluation will be incorporated. Sir has also appreciated the inputs given by BoS Members (External) & work done to improve the curriculum by making changes as per the needs of modern industry and society and forwarded for academic council approval.

All the BoS members came to the common conclusion regarding implementation of the changed syllabus for Sem-V&VI w.e.f Academic year 2022-2023.

Prof. S.S. Patil Madam expressed a vote of thanks and the meeting was over.

Prof.S.A.Desai Member Secretary Dr. K.I.Patil Academic Dean

Prof.S.T.Patil Head & BoS Chairman



Shree Warana Vibhag Shikshan Mandal's



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Department of Chemical Engineering

Board of Studies Meeting No. 3b

Date: 10/08/2022

NOTICE

All the Honorable Board of Studies members of Chemical Engineering Department are hereby informed that the 3b meeting of BOS is scheduled on Wednesday, 10/08/2022 at 3.00 PM in Computer Lab (Online Mode). Therefore, you are kindly requested to make it convenient to attend the meeting.

Day & Date: Wednesday, 10/08/2022

Time: 3.00 PM

Venue: Computer Lab, Chemical Department (Online Mode)

AGENDA

3b.1 Modification of Syllabus of Analytical Chemistry for S. Y. B.Tech

3b.2 Syllabus and Structure of T.Y. B.Tech to be Implemented from 2022-23

3b.3 To Discuss and approve the Structure and the Courses for Honours Degree

Program

3b.4 Syllabus and Structure of Final Year B.Tech to be Implemented from 2022-23

Prof. S.A.Desai Member Secretary

Prof. S.T.Patil Member Head & BoS Chairman



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Department of Chemical Engineering

Minutes of the BoS Meeting - 3b

Date- 10/08/2022

- 1. Prof. S. T. Patil, Member Secretary of BoS, welcomes all the honorable members of the meeting and addressed about agenda of BoS 3b meeting and invited suggestions from members.
- 2. Prof. S. T. Patil, Chairman of the meeting, presented the modification in*Syllabus of Analytical Chemistry. BoS Members approved the same with suggestions. Dr. S. V. Anekar Principal suggested adding chemistry of surfactant content with other surfactant than soap in concern with industrial experts.
- 3. Prof S. A. Desai, presented the T.Y. Btech course Structure & Syllabus of Sem-V & VI. The minor changes were got approved by BoS members.
- 4. Dr. K. I. Patil, Dean Academic & Member of BoS, presented Structure and Syllabus of Honor courses in front of all BoS members and also requested for approval of Honor's degree in Modeling and Simulation under Chemical Engineering. As per the APH, AICTE New Delhi, Honor's degree offered for Chemical Engineering is Waste Technology. House of BoS has approved the suggested title. Mr. Sunil Patil added that syllabus is good; more focus should be given on the hands on software's. Theory and Practical's both should be included in structure. Sir also focused and insisted on use of Promax Software in simulation of carbon capturing.
- 5. Prof. S. A. Desai, Member Secretary of BoS, Presented the Final Year B. Tech course Structure of Sem-VII and VIII. The suggestions given in BOS 3 were incorporated in list of Professional Elective Course. Change in subject title of Mathematical Modeling in Chemical Engineering is approved instead of Modeling & Simulation in Chemical Engineering.
- 6. Dr. K. I. Patil, Dean Academic & Member of BoS, presented proposed guidelines for Final Year B.Tech Structure for Sem-VIII as Capstone Pattern / Academic Pattern and Industrial Internship Pattern. Mr. Sunil Patil insisted on mandatory Industrial Internship pattern to all student also presentation or performance evaluation after Industrial Internship in front of the panel.

Prof. S. A. Desai, Member Secretary of BoS expressed a vote of thanks and the meeting was over.

Prof. S. A. Desai Member Secretary

Dr. K. I. Patil **Academic Dean**

Prof. S. T. Patil Head & BoS Chairman