

Annamacharya Institute of Technology & Sciences

(AUTONOMOUS)

New Boyanapalli, Rajampet – 516126

DEPARTMENT OF MECHANICAL ENGINEERING

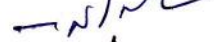
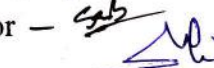




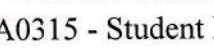
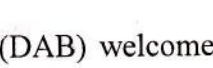

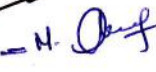
Department Advisory Board

Minutes of Meeting

• PROCEEDINGS OF THE MEETING OF THE DEPARTMENT ADVISORY BOARD HELD ON 04.05.2015 AT 11:00 AM IN ME DEPARTMENT SEMINAR HALL

A meeting of the Department Advisory Board (DAB) was held in the ME Department seminar hall on 04.05.2015 at 11:00 AM under the chairmanship of Prof. N Sivarami Reddy, HOD, Department of ME, Annamacharya Institute of Technology & Sciences, Rajampet.

Members Present:

1. Prof. N. Sivarami Reddy – Chairman — 
2. Prof. G. Krishnaiah – Coordinator — 
3. Sri K L Narasimhamu – Member — 
4. Sri A Hemantha Kumar – Member — 
5. Sri M Maruthi Prasad – Member — 
6. Sri H Suresh Babu Rao – Member — 
7. Sri RVNR Surya Prakash – Member — 
8. Sri B Santosh Kumar – Member — 
9. Ms. Bhavana Lingala - 11701A0311 – Student Member — 
10. Mr. Santhosh Reddy Madaka - 12705A0315 – Student Member — 

At the outset Prof. G. Krishnaiah, Coordinator (DAB) welcomed Prof. N Sivarami Reddy, HOD, Department of ME, AITS and the honorable members to the meeting for the year 2015.

The Department Advisory Board (DAB) started discussions on the following Subjects of the syllabus modifications of R14 regulations of AITS, Autonomous, which are recommended by Program Assessment Committee (PAC).

1. INSTRUMENTATION & CONTROL SYSTEMS
2. BASIC THERMODYNAMICS
3. ENGINEERING GRAPHICS
4. MACHINE TOOLS
5. KINEMATICS OF MAHINERY
6. UN-CONVENTIONAL MACHINING PROCESS
7. DESIGN OF MACHINE ELEMENTS - I
8. DESIGN OF MAHCINE ELEMENTS - II
9. MACHINE DRAWING

Annamacharya Institute of Technology & Sciences

(AUTONOMOUS)

New Boyanapalli, Rajampet – 516126

DEPARTMENT OF MECHANICAL ENGINEERING

10. CAD/CAM
11. AUTOMOBILE ENGINEERING
12. INDUSTRIAL MANAGEMENT
13. ADVANCED MANUFACTURING SYSTEMS
14. FLUID MECHANICS AND HYDRAULIC MACHINERY
15. APPLIED THERMO DYNAMICS - II
16. GAS TURBINES AND JET PROPULSION
17. TURBO MACHINERY
18. REFRIGERATION AND AIR CONDITIONING
19. AUTOMATION AND ROBOTICS
20. RAPID PROTOTYPING

The above subject modifications are discussed and accepted by all the members of Department Advisory Board (DAB) and hence forwarded to Board of Studies (BOS) for implementing in the upcoming regulation R15 of the syllabus.

Annamacharya Institute of Technology & Sciences

(AUTONOMOUS)

New Boyanapalli, Rajampet – 516126

DEPARTMENT OF MECHANICAL ENGINEERING






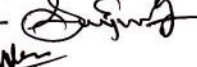


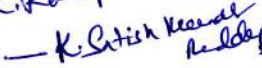
Program Assessment Committee

Minutes of Meeting

• PROCEEDINGS OF THE MEETING OF THE PROGRAM ASSESSMENT COMMITTEE HELD ON 27.04.2015 AT 11:00 AM IN ME DEPARTMENT SEMINAR HALL

A meeting of the Program Assessment Committee (PAC) was held in the ME Department seminar hall on 27.04.2015 at 11:00 AM under the chairmanship of Prof. N Sivarami Reddy. HOD, Department of ME, Annamacharya Institute of Technology & Sciences, Rajampet.

Members Present:

1. Prof. N. Sivarami Reddy – Chairman – 
2. Sri A Hemantha Kumar – Coordinator – 
3. Ms.K. Nagamani – Member – 
4. Sri C. Ramanjaneyulu – Member – 
5. Sri K. Ajay Kumar Reddy – Member – 
6. Sri G. Suresh Babu – Member – 
7. Sri V. Venkatesh – Member – 
8. Mr.Bhargav Ram Kaluvakolanu - 12705A0305 - Student Member – 
9. Mr. Satish Kumar Reddy Kummetha - 11701A0367 - Student Member – 

At the outset Sri A Hemantha Kumar, Coordinator (PAC) welcomed Prof. N Sivarami Reddy, HOD, Department of ME, AITS and the honorable members to the meeting for the year 2015.

The Program Assessment Committee (PAC) started discussions on the following Subjects of the syllabus modifications of R14 regulations of AITS, Autonomous.

Subject: INSTRUMENTATION & CONTROL SYSTEMS

Syllabus Removed : Unit – V; Performance of control systems

Reason for Removal : Vast syllabus to complete the topics within the time period.

Syllabus Added : NIL

Subject: BASIC THERMODYNAMICS

Syllabus Removed : Concept of quality of temperature – principles of thermometry – reference points – constant volumes gas thermometer scales of temperature.

Annamacharya Institute of Technology & Sciences

(AUTONOMOUS)

New Boyanapalli, Rajampet – 516126

DEPARTMENT OF MECHANICAL ENGINEERING

Reason for Removal : Questions were not appeared and asked in GATE and other competitive exams.

Syllabus Added : NIL

Subject: ENGINEERING GRAPHICS

Syllabus Removed : EG-I: Engineering graphics and its significance, drawing instruments and their use, conventions in drawing, BIS conventions.
EG-II: Isometric projections of objects having non-isometric lines, isometric projections of spherical parts.

Reason for Removal : EG-I: Basics of subject have to be covered in the class.
EG-II: It will take much time to cover the syllabus.

Syllabus Added : NIL

Subject: MACHINE TOOLS

Syllabus Removed : NIL

Syllabus Added : UNIT-I: Oblique cutting, single point cutting tool nomenclature-ORS, ASA system. Cutting fluids-types and functions its applications. Temperature measurement.

Reason for Adding : For detailed understanding of metal cutting operations and cutting fluids and temperature measurement.

Subject: KINEMATICS OF MACHINERY

Syllabus Removed : UNIT-II: Centroid and Axis of rotation.

Reason for Removal : Reduced the topics and concepts up to the level of graduation.

Syllabus Added : UNIT-IV: Gear trains: Sun and planetary gear systems.
UNIT-V: Retardation method and cycloidal.

Reason for Adding : Application point of view these topics are useful.

Subject: UN-CONVENTIONAL MACHINING PROCESS

Syllabus Removed : Unit II: Ultrasonic machining (AYM, WJM & USM) working principles - equipment used – process parameters – MRR – Variations in techniques – applications.
Unit V: Chemical Machining principle, maskants, etchants, applications Magnetic abrasive finishing, abrasive flow finishing.

Annamacharya Institute of Technology & Sciences

(AUTONOMOUS)

New Boyanapalli, Rajampet – 516126

DEPARTMENT OF MECHANICAL ENGINEERING

Reason for Removal : Not much important for the competitive exams.

Syllabus Added : NIL

Subject: POWER PLANT ENGINEERING

Syllabus Removed : NIL

Syllabus Added : NIL

Subject: APPLIED THERMODYNAMICS

Syllabus Removed : NIL

Syllabus Added : NIL

Subject: DESIGN OF MACHINE ELEMENTS - I

Syllabus Removed : Cumulative damage – miner's equation, rivet joints.

Reason for Removal : Not used in applications and rivet joints procedure is similar to threaded bolts.

Syllabus Added : NIL.

Subject: DESIGN OF MACHINE ELEMENTS - II

Syllabus Removed : UNIT-V: Design of power screws is removed.

Reason for Removal : This unit concepts are already discussed in DME-I.

Syllabus Added : Petroff's equation

Reason for Adding : Fundamental concept for designing of bearings.

Subject: MACHINE DRAWING

Syllabus Removed : Unit – I: a) Conventional representation of materials, common machine elements and parts such as screws, nuts, bolts, keys, gears, webs, ribs.
b) Types of sections – selection of section planes and drawing of sections and sectional views. Parts not usually sectioned.
c) Method of dimensioning general rules for sizes and placements of dimensions for holes, centers curved and tapered features.
d) Title boxes, their size, location and details common abbreviations and their liberal usage.
e) Types of drawings working drawings for machine parts.

Annamacharya Institute of Technology & Sciences

(AUTONOMOUS)

New Boyanapalli, Rajampet – 516126

DEPARTMENT OF MECHANICAL ENGINEERING

Unit – II: total removed

Unit – III: Assembly drawings.

Reason for Removal : Few topics were already discussed in Engineering Graphics.

Syllabus Added : Part drawings: Plummer block, blow off cock, indexing drill jig, tool post, petrol engine connecting rod.

Reason for Adding : As per industrial concern the topics are to be added to improve their drawing practice.

Subject: CAD/CAM

Syllabus Removed : NIL

Syllabus Added : UNIT-I: Representation of line and circles

Reason for Adding : To improve basic knowledge on computer graphics.

Subject: MECHANICS OF SOLIDS

Syllabus Removed : NIL

Syllabus Added : NIL

Subject: AUTOMOBILE ENGINEERING

Syllabus Removed : NIL

Syllabus Added : UNIT-II: SI Engine-fuel systems used in latest cars. CI Engine: Fuel systems used in latest cars.

Reason for Adding : To Update the students with latest advancements in the field of automobiles.

Subject: INDUSTRIAL MANAGEMENT

Syllabus Removed : Various data analyzing forms.

Syllabus Added : Data analyzing forms which are important in exam point of view are discussed

Subject: OPERATIONS RESEARCH

Syllabus Removed : UNIT-I: Economic interpretation of duality.

Annamacharya Institute of Technology & Sciences

(AUTONOMOUS)

New Boyanapalli, Rajampet – 516126

DEPARTMENT OF MECHANICAL ENGINEERING

UNIT-IV: Inventory- Shortages-stochastic models, demand may be discrete variable or continuous variable-instantaneous production. Instantaneous demand and continuous demand and no setup cost.

Reason for Removal : UNIT-I: Discussed in brief as it is not important in exam point of view.

UNIT-IV: Repeated in Industrial management.

Syllabus Added : NIL

Subject: PRODUCTION AND OPERATIONS MANAGEMENT

Syllabus Removed : NIL

Syllabus Added : NIL

Subject: SUPPLY CHAIN MANAGEMENT

Syllabus Removed : NIL

Syllabus Added : NIL

Subject: ADVANCED MANUFACTURING SYSTEMS

Syllabus Removed : Units I,II,III,IV & V are removed of R14 regulation.

Reason for Removal : Syllabus is replaced with Updated ones.

Syllabus Added : Units I,II,III,IV & V new syllabus added.

Reason for Adding : New syllabus have adopted as per current technological aspects.

Subject: METROLOGY AND SURFACE ENGINEERING

Syllabus Removed : NIL

Syllabus Added : NIL

Subject: HEAT TRANSFER

Syllabus Removed : NIL

Syllabus Added : NIL

Subject: NON-CONVENTIONAL SOURCES OF ENERGY

Annamacharya Institute of Technology & Sciences

(AUTONOMOUS)

New Boyanapalli, Rajampet – 516126

DEPARTMENT OF MECHANICAL ENGINEERING

Syllabus Removed : NIL

Syllabus Added : NIL

Subject: FLUID MECHANICS AND HYDRAULIC MACHINERY

Syllabus Removed : Viscous flow of incompressible fluids & Boundary layer

Reason for Removal : Not important for competitive exams and another topic is discussed in Heat Transfer subject.

Syllabus Added : NIL

Subject: APPLIED THERMO DYNAMICS - II

Syllabus Removed : NIL

Syllabus Added : Cooling towers - listing

Reason for Adding : Added along with types of cooling towers as continuity.

Subject: APPLIED THERMO DYNAMICS - III

Syllabus Removed : NIL

Syllabus Added : NIL

Subject: GAS TURBINES AND JET PROPULSION

Syllabus Removed : NIL

Syllabus Added : New subject added as Elective

Reason for Adding : To make students in competitive with other universities.

Subject: TURBO MACHINERY

Syllabus Removed : NIL

Syllabus Added : New subject added as Elective

Reason for Adding : To make students in competitive with other universities.

Subject: REFRIGERATION AND AIR CONDITIONING

Syllabus Removed : Subject removed in next regulation

Syllabus Added : The title subject is replaced with ATD-III

Reason for Adding : Gas turbines and jet propulsion topics were added.

Annamacharya Institute of Technology & Sciences

(AUTONOMOUS)

New Boyanapalli, Rajampet – 516126

DEPARTMENT OF MECHANICAL ENGINEERING

Subject: COMPUTATIONAL FLUID DYNAMICS

Syllabus Removed : NIL

Syllabus Added : NIL

Subject: AUTOMATION AND ROBOTICS

Syllabus Removed : NIL

Syllabus Added : UNIT-I: Automation strategies
UNIT-IV: Newton Euler formation

Reason for Adding : UNIT-I: To enhance importance of automation in manufacturing industries.
UNIT-II: To improve basic knowledge on manipulator dynamics.

Subject: RAPID PROTOTYPING

Syllabus Removed : NIL

Syllabus Added : UNIT-V: Applications

Reason for Adding : To enhance the present importance of LENS technology in society.

Subject: FINITE ELEMENT METHODS

Syllabus Removed : NIL

Syllabus Added : NIL

Subject: TRIBOLOGY

Syllabus Removed : NIL

Syllabus Added : NIL

All the above subjects' modifications are discussed and accepted by all the members of Program Assessment Committee (PAC) and hence forwarded to Department Advisory Board (DAB) for approval and requested to submit the same to Board of Studies (BOS) for implementing in the upcoming regulation R15 of the syllabus.

Annamacharya Institute of Technology & Sciences

(AUTONOMOUS)

New Boyanapalli, Rajampet - 516126

DEPARTMENT OF MECHANICAL ENGINEERING

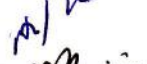
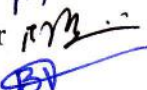

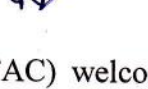
Feedback Assessment Committee

Minutes of Meeting

- **PROCEEDINGS OF THE MEETING OF THE FEEDBACK ASSESSMENT COMMITTEE HELD ON 20.04.2015 AT 11:00 AM IN ME DEPARTMENT SEMINAR HALL**

A meeting of the Feedback Assessment Committee (FAC) was held in the ME Department seminar hall on 20.04.2015 at 11:00 AM under the chairmanship of Prof. N Sivarami Reddy. HOD, Department of ME, Annamacharya Institute of Technology & Sciences, Rajampet.

Members Present:

1. Prof. N. Sivarami Reddy – Chairman 
2. Sri M. Dasthagiri – Coordinator 
3. Sri B. Venkatesh – Member 
4. Ms N. Deepthi – Member 

At the outset Sri M. Dasthagiri, Coordinator (FAC) welcomed Prof. N Sivarami Reddy, HOD, Department of ME, AITS and the honorable members to the meeting for the year 2015.

The Feedback Assessment Committee (FAC) started discussions on the following feedback sources and discussed on subjects for the syllabus modifications of R14 regulations of AITS, Autonomous, which are recommended by Feedback Assessment Committee (FAC).

Feedback Sources:

1. Teachers Feedback on Curriculum
2. Course Feedback by Students
3. Parents Feedback on Curriculum
4. Alumni Feedback on Curriculum

Subjects:

1. INSTRUMENTATION & CONTROL SYSTEMS
2. BASIC THERMODYNAMICS
3. ENGINEERING GRAPHICS
4. MACHINE TOOLS
5. KINEMATICS OF MAHINERY
6. UN-CONVENTIONAL MACHINING PROCESS
7. DESIGN OF MACHINE ELEMENTS - I

Annamacharya Institute of Technology & Sciences

(AUTONOMOUS)

New Boyanapalli, Rajampet – 516126

DEPARTMENT OF MECHANICAL ENGINEERING

8. DESIGN OF MACHINE ELEMENTS - II
9. MACHINE DRAWING
10. CAD/CAM
11. AUTOMOBILE ENGINEERING
12. INDUSTRIAL MANAGEMENT
13. ADVANCED MANUFACTURING SYSTEMS
14. FLUID MECHANICS AND HYDRAULIC MACHINERY
15. APPLIED THERMO DYNAMICS - II
16. GAS TURBINES AND JET PROPULSION
17. TURBO MACHINERY
18. REFRIGERATION AND AIR CONDITIONING
19. AUTOMATION AND ROBOTICS
20. RAPID PROTOTYPING

The above subject modifications are discussed and accepted by all the members of Feedback Assessment Committee (FAC) and hence forwarded to Program Assessment Committee (PAC) for implementing in the upcoming regulation R15 of the syllabus.