

# SAGI RAMA KRISHNAM RAJU ENGINEERING COLLEGE (AUTONOMOUS)

(AFFILIATED TO JNTUK, KAKINADA) (RECOGNISED BY ALL INDIA COUNCIL FOR TECHNICAL EDUCATION, NEW DELHI)

Accredited by NAAC with 'A' Grade

Recognised as Scientific and Industrial Research Organisation

CHINNA AMIRAM (P.O):: BHIMAVARAM :: W.G.DL., A.P., INDIA :: PIN: 534 204

**Dr. M. Jagapathi Raju**

M.Tech (IIT, KGP), Ph.D (A.U.), FIE, MISTE

Vice-Principal (Academics)

and

In-charge PRINCIPAL



Phones: Off: EPABX:08816-223332 Ext. 201

College: 08816-222748

Fax: 08816-224516

Mobile No. : 9848773515

Email: profmjraru999@gmail.com

principal@srkrec.ac.in

Website: www.srkrec.ac.in

SRKREC/BOS-1/ME/2018-19

Date: 15.04.2019

To

Dr. V.V. Subba Rao

Registrar & Professor in Dept. of Mechanical Engineering

JNTU Kakinada

Kakinada-533003.

Dear Sir,

Sub: S.R.K.R. Engineering College-Board of Studies Meeting-Invitation-Reg.

\*\*\*

We wish to inform you that Joint Board of Studies meeting will be held on 22.04.2019 at 11-00 A.M in A.C. Auditorium (I-101) of S.R.K.R. Engineering College.

We request you to kindly attend the meeting and give your expert advice in designing the curriculum to maintain quality in academics.

The Board of Studies meetings will be conducted in respective departments as per the schedule mentioned below:

| S.No. | BOARD                                                                                                                           | DATE       | TIME     |
|-------|---------------------------------------------------------------------------------------------------------------------------------|------------|----------|
| 1     | Civil Engineering                                                                                                               | 22.04.2019 | 2.00 P.M |
| 2     | Computer Science & Engineering                                                                                                  | 22.04.2019 | 2.00 P.M |
| 3     | Electronics & Communication Engineering                                                                                         | 22.04.2019 | 2.00 P.M |
| 4     | Electrical & Electronics Engineering                                                                                            | 22.04.2019 | 2.00 P.M |
| 5     | Information Technology                                                                                                          | 22.04.2019 | 2.00 P.M |
| 6     | Mechanical Engineering                                                                                                          | 22.04.2019 | 2.00 P.M |
| 7     | Combined Board of Studies in Engineering Chemistry/Engineering Mathematics/Engineering Physics / Humanities and Social Sciences | 22.04.2019 | 2.00 P.M |

The T.A / D.A. will be paid to all the external members as per the university guidelines. We request you to make it convenient to attend the meetings.

Yours faithfully,

*R. Jagapathi Raju*

In-charge Principal

*R. Jagapathi Raju*  
PRINCIPAL  
S.R.K.R. Engg. College  
BHIMAVARAM-534 204



PRINCIPAL  
S.R.K.R. Engg. College  
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SRKREC/BOS-1/ME/2018-19

Date: 15.04.2019

To

Prof. K. Venkata Subbaiah

Professor & Dean, Research & Development

Dept. of Mechanical Engineering

College of Engineering, Andhra University,

Visakhapatnam-530003

Dear Sir,

Sub: S.R.K.R. Engineering College-Board of Studies Meeting-Invitation-Reg.

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| 4     | Electrical & Electronics Engineering                                                                                                  | 22.04.2019 | 2.00 P.M |
| 5     | Information Technology                                                                                                                | 22.04.2019 | 2.00 P.M |
| 6     | Mechanical Engineering                                                                                                                | 22.04.2019 | 2.00 P.M |
| 7     | Combined Board of Studies in Engineering<br>Chemistry/Engineering Mathematics/Engineering<br>Physics / Humanities and Social Sciences | 22.04.2019 | 2.00 P.M |

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Yours faithfully,

*M. Jagapathi Raju*

In-charge Principal

PRINCIPAL

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Website: www.srkrec.ac.in

SRKREC/BOS-1/ME/2018-19

Date: 15.04.2019

To

Prof. B.S.V. Prasad Patnaik

Department of Applied Mechanics

Indian Institute of Technology Madras

Chennai 600036.

Dear Sir,

Sub: S.R.K.R. Engineering College-Board of Studies Meeting-Invitation-Reg.

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| 4     | Electrical & Electronics Engineering                                                                                            | 22.04.2019 | 2.00 P.M |
| 5     | Information Technology                                                                                                          | 22.04.2019 | 2.00 P.M |
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S.R.K.R. Engg. College  
BHIMAVARAM-534 204



Yours faithfully,



In-charge Principal

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SRKREC/BOS-1/ME/2018-19

Date: 15.04.2019

To

Dr. P.V.S. Ganesh Kumar

Associate Director

Naval Science & Technological Laboratory (NSTL)

Visakhapatnam, Andhra Pradesh.

Dear Sir,

Sub: S.R.K.R. Engineering College-Board of Studies Meeting-Invitation-Reg.

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| 3     | Electronics & Communication Engineering                                                                                         | 22.04.2019 | 2.00 P.M |
| 4     | Electrical & Electronics Engineering                                                                                            | 22.04.2019 | 2.00 P.M |
| 5     | Information Technology                                                                                                          | 22.04.2019 | 2.00 P.M |
| 6     | Mechanical Engineering                                                                                                          | 22.04.2019 | 2.00 P.M |
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*(Signature)*

In-charge Principal

PRINCIPAL

S.R.K.R. Engg. College

BHIMAVARAM-534 204

*(Signature)*  
PRINCIPAL  
S.R.K.R. Engg. College  
BHIMAVARAM-534 204







**SAGI RAMA KRISHNAM RAJU ENGINEERING COLLEGE(A)**  
**CHINNA AMIRAM :: BHIMAVARAM-534204**  
**DEPARTMENT OF MECHANICAL ENGINEERING**

Dt: 15-04-2019

**CIRCULAR**

This is to inform you that the Department of Mechanical Engineering will hold a meeting on 22-04-2019 at 02.00 PM in Room No. M-101 (E-class room) of Mechanical Department. In this connection, all the members of the Board of Studies are requested to attend the same.

**Agenda:**

1. To discuss and finalize course structure and syllabus for 3/4 - B.Tech Mechanical Engineering program , under R-17 regulations.
2. To discuss and finalize course structure and syllabus for 4/4 – B.Tech Mechanical Engineering program , under R-16 regulations.
3. Any other items for discussion.

C.C to:

1. The Members of Board of studies
2. Office file



  
Head of the Department  
Professor & Head  
Dept. of Mechanical Engg.  
S.R.K.R. Engineering College  
CHINNA AMIRAM (P.O.)  
BHIMAVARAM-534 204.

# MINUTES OF THE MEETING 17

Fifth Board of Studies meeting was held on 22-04-2019 in M101 (E-class room) of Mechanical Engineering Department at 2:00 PM for Finalization of 3<sup>rd</sup> B.Tech (R17) and 4<sup>th</sup> B.Tech (R16) Syllabus for B.Tech Mechanical Engineering Program.

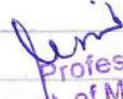
*[Signature]*  
Professor & Head  
Dept. of Mechanical Engg.  
S.R.K.R. Engineering College  
CHINA AMIRAM (P.O.)  
BHIMAVARAM-534 204.

### MINUTES OF THE MEETING RESOLUTIONS

- (1) Finalized the syllabus for the 4/4 B.Tech (RI6) Syllabus for the Mechanical Engineering program under Andhra University Autonomous Status.
- (2) Finalized the syllabus for the 3/4 B.Tech (RI7) Syllabus for the Mechanical Engineering program under JNTUK University Autonomous Status.
- (3) Proposed the course structure for the 4/4 B.Tech (RI7) for the Mechanical Engineering program under JNTUK University Autonomous Status.
- (4) Resolved to offer 1 open elective course with choosing 6 courses for B.Tech Mechanical Engg program under RI7 Regulations (JNTUK)
- (5) Resolved to offer the following courses in addition to regular curriculum for 3/4 B.Tech Mechanical Engineering program under RI7 Regulations (JNTUK)

| S.No. | Course Name                             | Semester | Credits |
|-------|-----------------------------------------|----------|---------|
| 1     | Problem Solving & Linguistic Competence | First    | 1       |
| 2     | Modeling Lab                            | First    | 1       |
| 3     | IPR & patents                           | First    | —       |
| 4     | Employability skills                    | Second   | 1       |
| 5     | Basic Coding                            | Second   | 1       |

- (6) Discussed about various feedbacks collected from students, Alumni, Faculty and Industry people on curriculum while preparing the course structure and syllabus.

  
 Professor & Head  
 Dept. of Mechanical Engg.  
 S.R.K.R. Engineering College  
 CHINA AMIRAM (P.O.)  
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| S.NO. | Name of the Member      | Designation                     | Signature            |
|-------|-------------------------|---------------------------------|----------------------|
| 01    | Prof. K. Venkatesh Babu | Senior Professor                | K. Venkatesh Babu    |
| 02    | B. Durga Prasad         | Professor & Controller of Exams | B. Durga Prasad      |
| 03    | P.V.S. GANESH KUMAR     | Outstanding Scientist NSIL      | P.V.S. GANESH KUMAR  |
| 04    | C.H. Gopala Raju        | Associate Prof.                 | C.H. Gopala Raju     |
| 05    | PROF K. Satyanarayana   | Professor                       | K. Satyanarayana     |
| 06    | DR. P. RAMA MURTY RAJU  | PROFESSOR                       | P. Rama Murthy Raju  |
| 07    | V.K. VISWANADHA RAJU    | Associate Professor             | V.K. VISWANADHA RAJU |
| 08    | DR. K. SITA RAMA RAJU   | ASSOCIATE PROFESSOR             | K. Sita Rama Raju    |
| 09    | DR. A. Bala Krishna     | Professor                       | A. Bala Krishna      |
| 10    | DR. P.V. Kumar Raju     | Professor                       | P.V. Kumar Raju      |
| 11    | DR. K.V.M.K. Raju       | Professor                       | K.V.M.K. Raju        |
| 12    | DR. V. DURGA PRASAD     | Professor                       | V. Durga Prasad      |
| 13    | G. C. Rami              | Associate Prof.                 | G. C. Rami           |
| 14    | C. SRINIVAS             | Associate professor             | C. Srinivas          |
| 15    | Prof. N.V. SUBBA RAJU   | Professor                       | N.V. Subba Raju      |
| 16    | P.V. Gopala Raju        | Assoc. Professor                | P.V. Gopala Raju     |
| 17    | P.V. R.S. RAMA RAJU     | Assoc. Prof.                    | P.V. R.S. RAMA RAJU  |
| 18    | DR. S. RAJESH           | Assoc. professor                | S. Rajesh            |
| 19    | M. Vinay Babu           | Student (4/4 Mech)              | M. Vinay Babu        |
| 20    | M. Satheesh             | Student (4/4 Mech)              | M. Satheesh          |
| 21    | Dr K. Brahma Raju       | Prof & Head                     | K. Brahma Raju       |

Professor & Head  
Dept. of Mechanical Engg.  
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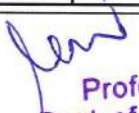
## RESOLUTIONS FOR THE MEETING DATED 22-04-2019

(1) Finalized the syllabus for the 4/4 B.Tech  
(R16) syllabus for the Mechanical Engineering  
programs under Andhra University Autonomous Status.

| Regulation: 16                                                                           |                        |    |    | IV/ IV - B.TECH I- Semester |    |     |                 |            |             |
|------------------------------------------------------------------------------------------|------------------------|----|----|-----------------------------|----|-----|-----------------|------------|-------------|
| MECHANICAL ENGINEERING<br>(under Choice Based Credit System / Elective Course System)    |                        |    |    |                             |    |     |                 |            |             |
| SCHEME OF INSTRUCTION & EXAMINATION<br>(With effect from 2016-17 admitted Batch onwards) |                        |    |    |                             |    |     |                 |            |             |
| CodeNo.                                                                                  | Course                 | C  | Cr | L                           | T  | Lab | Sessional Marks | Exam Marks | Total Marks |
| B16 ME4101                                                                               | Computer Aided Design  | ES | 4  | 3                           | 1  | -   | 30              | 70         | 100         |
| B16 ME4102                                                                               | Machine Design         | ES | 4  | 3                           | 1  | -   | 30              | 70         | 100         |
| B16 ME4103                                                                               | Heat and Mass Transfer | ES | 4  | 3                           | 1  | -   | 30              | 70         | 100         |
| # ELE-III                                                                                | ELECTIVE-III           | ES | 4  | 3                           | 1  | -   | 30              | 70         | 100         |
| B16 ME4110                                                                               | Heat Transfer Lab      | ES | 2  | -                           | -  | 3   | 50              | 50         | 100         |
| B16 ME4111                                                                               | Project Phase-I        | ES | 2  | --                          | -- | 3   | 50              | --         | 50          |
| Total                                                                                    |                        |    | 20 | 12                          | 4  | 6   | 220             | 330        | 550         |

|           |             |                          |
|-----------|-------------|--------------------------|
| # ELE-III | B16 ME 4104 | Mechanical Vibrations    |
|           | B16 ME 4105 | Project Management       |
|           | B16 ME 4106 | Non-Destructive Testing  |
|           | B16 ME 4107 | Power Plant Engineering  |
|           | B16 ME 4108 | Mechatronics             |
|           | B16 ME 4109 | Design for Manufacturing |

|                                                                                          |                               |          |         |                              |              |         |                 |            |             |
|------------------------------------------------------------------------------------------|-------------------------------|----------|---------|------------------------------|--------------|---------|-----------------|------------|-------------|
| Regulation: 16                                                                           |                               |          |         | IV/ IV - B.TECH II- Semester |              |         |                 |            |             |
| MECHANICAL ENGINEERING<br>(under Choice Based Credit System / Elective Course System)    |                               |          |         |                              |              |         |                 |            |             |
| SCHEME OF INSTRUCTION & EXAMINATION<br>(With effect from 2016-17 admitted Batch onwards) |                               |          |         |                              |              |         |                 |            |             |
| CodeNo.                                                                                  | Course                        | Category | Credits | Lecture Hrs                  | Tutorial Hrs | Lab Hrs | Sessional Marks | Exam Marks | Total Marks |
| B16 ME4201                                                                               | Computer Aided Manufacturing  | ES       | 4       | 3                            | 1            | -       | 30              | 70         | 100         |
| B16 ME4202                                                                               | Quality Control and Assurance | ES       | 4       | 3                            | 1            | -       | 30              | 70         | 100         |
| B16 ME4203                                                                               | CAD/CAM Lab                   | ES       | 2       | -                            | -            | 3       | 50              | 50         | 100         |
| B16 ME4204                                                                               | Project Phase-II              | ES       | 12      | -                            | -            | 9       | 50              | 100        | 150         |
| Total                                                                                    |                               |          | 22      | 6                            | 2            | 12      | 160             | 290        | 450         |

  
 Professor & Head  
 Dept. of Mechanical Engg.  
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 BHIMAVARAM-534



(2) Finalized the syllabus for the 3/4 B.Tech  
(R17) Syllabus for the Mechanical Engineering  
program under JNTUK University Autonomous Status.

| Regulation: R17                                                                          |                                         |          |         | III / IV - B.Tech. I- Semester |              |         |                |                |             |
|------------------------------------------------------------------------------------------|-----------------------------------------|----------|---------|--------------------------------|--------------|---------|----------------|----------------|-------------|
| MECHANICAL ENGINEERING<br>(under Choice Based Credit System / Elective Course System)    |                                         |          |         |                                |              |         |                |                |             |
| SCHEME OF INSTRUCTION & EXAMINATION<br>(With effect from 2017-18 admitted Batch onwards) |                                         |          |         |                                |              |         |                |                |             |
| Code No.                                                                                 | Name of the Subject                     | Category | Credits | Lecture Hrs                    | Tutorial Hrs | Lab Hrs | Internal Marks | External Marks | Total Marks |
| B17ME3101                                                                                | Operations Research                     | ES       | 3       | 3                              | 1            | --      | 30             | 70             | 100         |
| B17ME3102                                                                                | IC Engines & Gas Turbines               | ES       | 3       | 3                              | 1            | --      | 30             | 70             | 100         |
| B17ME3103                                                                                | Kinematics of Machines                  | ES       | 3       | 3                              | 1            | --      | 30             | 70             | 100         |
| B17ME3104                                                                                | Design of Machine Elements              | ES       | 3       | 3                              | 1            | --      | 30             | 70             | 100         |
| B17ME3105                                                                                | Fluid Machines & Systems                | ES       | 3       | 3                              | 1            | --      | 30             | 70             | 100         |
| B17ME3106                                                                                | Industrial Measurements & Metrology     | ES       | 3       | 3                              | 1            | --      | 30             | 70             | 100         |
| B17ME3107                                                                                | IC Engines & Kinematics of Machines Lab | ES       | 2       | --                             | --           | 3       | 50             | 50             | 100         |
| B17ME3108                                                                                | Metrology Lab                           | ES       | 2       | --                             | --           | 3       | 50             | 50             | 100         |
| B17 BS3101                                                                               | Problem Solving & Linguistic Competence | BS       | 1       | --                             | 3            | --      | 30             | 70             | 100         |
| B17ME3109                                                                                | Modeling Lab                            | ES       | 1       | --                             | --           | 3       | 50             | 50             | 100         |
| B17BS 3105                                                                               | IPR & Patents                           | BS       | --      | --                             | 2            | --      | --             | --             | --          |
| Total                                                                                    |                                         |          | 24      | 18                             | 11           | 9       | 360            | 640            | 1000        |

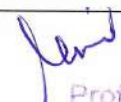
| Regulation: R17                                                                          |                                     |          |         | III / IV - B.Tech. II- Semester |              |         |                |                |             |
|------------------------------------------------------------------------------------------|-------------------------------------|----------|---------|---------------------------------|--------------|---------|----------------|----------------|-------------|
| MECHANICAL ENGINEERING<br>(under Choice Based Credit System / Elective Course System)    |                                     |          |         |                                 |              |         |                |                |             |
| SCHEME OF INSTRUCTION & EXAMINATION<br>(With effect from 2017-18 admitted Batch onwards) |                                     |          |         |                                 |              |         |                |                |             |
| Code No.                                                                                 | Name of the Subject                 | Category | Credits | Lecture Hrs                     | Tutorial Hrs | Lab Hrs | Internal Marks | External Marks | Total Marks |
| B17ME3201                                                                                | Industrial Engineering & Management | ES       | 3       | 3                               | 1            | --      | 30             | 70             | 100         |
| B17ME3202                                                                                | Control Systems                     | ES       | 3       | 3                               | 1            | --      | 30             | 70             | 100         |
| B17ME3203                                                                                | Dynamics of Machines                | ES       | 3       | 3                               | 1            | --      | 30             | 70             | 100         |
| B17ME3204                                                                                | Machine Design                      | ES       | 3       | 3                               | 1            | --      | 30             | 70             | 100         |
| #OE                                                                                      | Open Elective                       | ES       | 3       | 3                               | 1            | --      | 30             | 70             | 100         |
| B17ME3207                                                                                | Computer Aided Design               | ES       | 3       | 3                               | 1            | --      | 30             | 70             | 100         |
| B17ME3208                                                                                | Industrial Engineering Lab          | ES       | 2       | --                              | --           | 3       | 50             | 50             | 100         |
| B17ME3209                                                                                | Fluid Mechanics and Machinery Lab   | ES       | 2       | --                              | --           | 3       | 50             | 50             | 100         |
| B17 BS3201                                                                               | Employability Skills                | BS       | 1       | --                              | 3            | --      | 30             | 70             | 100         |
| B17 BS3202                                                                               | Basic Coding                        | BS       | 1       | --                              | --           | 3       | 50             | 50             | 100         |
| Total                                                                                    |                                     |          | 24      | 18                              | 9            | 9       | 360            | 640            | 1000        |

Professor & Head  
Dept. of Mechanical Engg.  
S.R.K.R. Engineering College  
CHINAMIRAM (P.O.)

(3) Proposed the course structure for the 4/4 B.Tech (R17) for the Mechanical Engineering Program under JNTUK University Autonomous status.

|                                                                                          |                              |          |         |                              |              |         |                |                |             |
|------------------------------------------------------------------------------------------|------------------------------|----------|---------|------------------------------|--------------|---------|----------------|----------------|-------------|
| Regulation: R17                                                                          |                              |          |         | IV/ IV - B.Tech. I- Semester |              |         |                |                |             |
| MECHANICAL ENGINEERING<br>(under Choice Based Credit System / Elective Course System)    |                              |          |         |                              |              |         |                |                |             |
| SCHEME OF INSTRUCTION & EXAMINATION<br>(With effect from 2017-18 admitted Batch onwards) |                              |          |         |                              |              |         |                |                |             |
| Code No.                                                                                 | Name of the Subject          | Category | Credits | Lecture Hrs                  | Tutorial Hrs | Lab Hrs | Internal Marks | External Marks | Total Marks |
| B17 ME4101                                                                               | Heat Transfer                | ES       | 3       | 3                            | 1            | --      | 30             | 70             | 100         |
| B17ME4102                                                                                | Computer Aided Manufacturing | ES       | 3       | 3                            | 1            | --      | 30             | 70             | 100         |
| B17ME4103                                                                                | Mechatronics                 | ES       | 3       | 3                            | 1            | --      | 30             | 70             | 100         |
| #ELE-I                                                                                   | Elective-I                   | ES       | 3       | 3                            | 1            | --      | 30             | 70             | 100         |
| #ELE-II                                                                                  | Elective-II                  | ES       | 3       | 3                            | 1            | --      | 30             | 70             | 100         |
| B17ME4110                                                                                | Heat Transfer Lab            | ES       | 2       | --                           | --           | 3       | 50             | 50             | 100         |
| B17ME4111                                                                                | CAD Lab                      | ES       | 2       | --                           | --           | 3       | 50             | 50             | 100         |
| Total                                                                                    |                              |          | 19      | 15                           | 5            | 6       | 250            | 450            | 700         |

|                                                                                          |                              |          |         |                               |              |         |                |                |             |
|------------------------------------------------------------------------------------------|------------------------------|----------|---------|-------------------------------|--------------|---------|----------------|----------------|-------------|
| Regulation: R17                                                                          |                              |          |         | IV/ IV - B.Tech. II- Semester |              |         |                |                |             |
| MECHANICAL ENGINEERING<br>(under Choice Based Credit System / Elective Course System)    |                              |          |         |                               |              |         |                |                |             |
| SCHEME OF INSTRUCTION & EXAMINATION<br>(With effect from 2017-18 admitted Batch onwards) |                              |          |         |                               |              |         |                |                |             |
| Code No.                                                                                 | Name of the Subject          | Category | Credits | Lecture Hrs                   | Tutorial Hrs | Lab Hrs | Internal Marks | External Marks | Total Marks |
| B17ME4201                                                                                | Production Planning &Control | ES       | 3       | 3                             | 1            | --      | 30             | 70             | 100         |
| # ELE-III                                                                                | Elective-III                 | ES       | 3       | 3                             | 1            | --      | 30             | 70             | 100         |
| B17ME4205                                                                                | CAM Lab                      | ES       | 2       | --                            | --           | 3       | 50             | 50             | 100         |
| B17ME4206                                                                                | Seminar                      | ES       | 2       | --                            | --           | --      | 50             | --             | 50          |
| B17ME4207                                                                                | Project Work                 | ES       | 10      | --                            | --           | 3       | 60             | 140            | 200         |
| Total                                                                                    |                              |          | 20      | 6                             | 2            | 6       | 220            | 330            | 550         |

  
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(4) Resolved to offer 1 open elective course with choice of 6 courses for B.Tech Mechanical Engg Program Under R17 Regulations (JNTUK)

|         | Code No.  | Cour<br>se                       |
|---------|-----------|----------------------------------|
| #ELE-I  | B17ME4104 | Finite Element Analysis          |
|         | B17ME4105 | Automation in Manufacturing      |
|         | B17ME4106 | Quality Control and Assurance    |
| #ELE-II | B17ME4107 | Project Management               |
|         | B17ME4108 | Tool Design                      |
|         | B17ME4109 | Refrigeration & Air Conditioning |

(5) Resolved to offer the following courses in addition to regular curriculum for 3/4 B.Tech Mechanical Engineering program under R17 Regulations (JNTUK)

| S.No. | Course Name                             | Semester | Credits |
|-------|-----------------------------------------|----------|---------|
| 1     | Problem Solving & Linguistic Competence | First    | 1       |
| 2     | Modeling Lab                            | First    | 1       |
| 3     | IPR & Patents                           | First    | —       |
| 4     | Employability skills                    | Second   | 1       |
| 5     | Basic Coding                            | Second   | 1       |

| Regulation: R17                                                                          |                                         |              |             | III / IV - B.Tech. I- Semester |                     |            |                   |                   |                |
|------------------------------------------------------------------------------------------|-----------------------------------------|--------------|-------------|--------------------------------|---------------------|------------|-------------------|-------------------|----------------|
| MECHANICAL ENGINEERING<br>(under Choice Based Credit System / Elective Course System)    |                                         |              |             |                                |                     |            |                   |                   |                |
| SCHEME OF INSTRUCTION & EXAMINATION<br>(With effect from 2017-18 admitted Batch onwards) |                                         |              |             |                                |                     |            |                   |                   |                |
| Code No.                                                                                 | Name of the Subject                     | Categ<br>ory | Credit<br>s | Lecture<br>Hrs                 | Tutori<br>al<br>Hrs | Lab<br>Hrs | Internal<br>Marks | External<br>Marks | Total<br>Marks |
| B17ME3101                                                                                | Operations Research                     | ES           | 3           | 3                              | 1                   | --         | 30                | 70                | 100            |
| B17ME3102                                                                                | IC Engines & Gas Turbines               | ES           | 3           | 3                              | 1                   | --         | 30                | 70                | 100            |
| B17ME3103                                                                                | Kinematics of Machines                  | ES           | 3           | 3                              | 1                   | --         | 30                | 70                | 100            |
| B17ME3104                                                                                | Design of Machine Elements              | ES           | 3           | 3                              | 1                   | --         | 30                | 70                | 100            |
| B17ME3105                                                                                | Fluid Machines & Systems                | ES           | 3           | 3                              | 1                   | --         | 30                | 70                | 100            |
| B17ME3106                                                                                | Industrial Measurements & Metrology     | ES           | 3           | 3                              | 1                   | --         | 30                | 70                | 100            |
| B17ME3107                                                                                | IC Engines & Kinematics of Machines Lab | ES           | 2           | --                             | --                  | 3          | 50                | 50                | 100            |
| B17ME3108                                                                                | Metrology Lab                           | ES           | 2           | --                             | --                  | 3          | 50                | 50                | 100            |
| B17 BS3101                                                                               | Problem Solving & Linguistic Competence | BS           | 1           | --                             | 3                   | --         | 30                | 70                | 100            |
| B17ME3109                                                                                | Modeling Lab                            | ES           | 1           | --                             | --                  | 3          | 50                | 50                | 100            |
| B17BS 3105                                                                               | IPR & Patents                           | BS           | --          | --                             | 2                   | --         | --                | ---               | --             |
| Total                                                                                    |                                         |              | 24          | 18                             | 11                  | 9          | 360               | 640               | 1000           |

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| Regulation: R17                                                                          |                                     |          |         | III / IV - B.Tech. II- Semester |              |         |                |                |             |
|------------------------------------------------------------------------------------------|-------------------------------------|----------|---------|---------------------------------|--------------|---------|----------------|----------------|-------------|
| MECHANICAL ENGINEERING<br>(under Choice Based Credit System / Elective Course System)    |                                     |          |         |                                 |              |         |                |                |             |
| SCHEME OF INSTRUCTION & EXAMINATION<br>(With effect from 2017-18 admitted Batch onwards) |                                     |          |         |                                 |              |         |                |                |             |
| Code No.                                                                                 | Name of the Subject                 | Category | Credits | Lecture Hrs                     | Tutorial Hrs | Lab Hrs | Internal Marks | External Marks | Total Marks |
| B17ME3201                                                                                | Industrial Engineering & Management | ES       | 3       | 3                               | 1            | --      | 30             | 70             | 100         |
| B17ME3202                                                                                | Control Systems                     | ES       | 3       | 3                               | 1            | --      | 30             | 70             | 100         |
| B17ME3203                                                                                | Dynamics of Machines                | ES       | 3       | 3                               | 1            | --      | 30             | 70             | 100         |
| B17ME3204                                                                                | Machine Design                      | ES       | 3       | 3                               | 1            | --      | 30             | 70             | 100         |
| #OE                                                                                      | Open Elective                       | ES       | 3       | 3                               | 1            | --      | 30             | 70             | 100         |
| B17ME3207                                                                                | Computer Aided Design               | ES       | 3       | 3                               | 1            | --      | 30             | 70             | 100         |
| B17ME3208                                                                                | Industrial Engineering Lab          | ES       | 2       | --                              | --           | 3       | 50             | 50             | 100         |
| B17ME3209                                                                                | Fluid Mechanics and Machinery Lab   | ES       | 2       | --                              | --           | 3       | 50             | 50             | 100         |
| B17 BS3201                                                                               | Employability Skills                | BS       | 1       | --                              | 3            | --      | 30             | 70             | 100         |
| B17 BS3202                                                                               | Basic Coding                        | BS       | 1       | --                              | --           | 3       | 50             | 50             | 100         |
| Total                                                                                    |                                     |          | 24      | 18                              | 9            | 9       | 360            | 640            | 1000        |

(b) Discussed about various feedbacks collected from students, Alumni, Faculty and Industry people on curriculum while preparing the course structure and syllabus.

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