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**MOHANDAS COLLEGE OF  
ENGINEERING & TECHNOLOGY**

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**ANAD, NEDUMANGAD  
THIRUVANANTHAPURAM -44  
Tel: 0472-2813039**

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**ACADEMIC CALENDAR**

*For B.Tech 1<sup>st</sup>, 3<sup>rd</sup>, 5<sup>th</sup> & 7<sup>th</sup> Semesters,*

*MCA 1<sup>st</sup>, 3<sup>rd</sup> & 5<sup>th</sup> Semesters &*

*M.Tech 1<sup>st</sup> & 3<sup>rd</sup> Semesters*

**2019 - 2020**

Name : .....

Roll No: .....

Branch: .....

Year : .....

**MCET.....*Mind Set For Learning***

**MOHANDAS COLLEGE OF  
ENGINEERING & TECHNOLOGY**  
ANAD, NEDUMANGAD  
THIRUVANANTHAPURAM-44

**ACADEMIC CALENDAR 2019 - 20**

***For B.Tech 1<sup>st</sup> , 3<sup>rd</sup> , 5<sup>th</sup> & 7<sup>th</sup> Semesters, MCA 1<sup>st</sup> , 3<sup>rd</sup> & 5<sup>th</sup> Semesters &  
M.Tech 1<sup>st</sup> & 3<sup>rd</sup> Semesters***

**Time Table**

Regular class work has been scheduled, Monday to Friday from 8.30 AM to 3.30 PM. Regular class work will be based on the academic calendar 2019 -20.

**Holidays**

All Kerala Government holidays approved by the Management are holidays for the college. Other holidays if any will be announced by the Management from time to time. However any working day lost on account of any Bandh, Hartal or the like will be compensated by an additional working day on a Saturday/holiday.

**Rules of general discipline**

Students are to strictly follow the following:

- Class timings: 8.30 AM to 3.30 PM with a lunch break from 12.05 PM to 12.55 PM for Higher Semesters of CSE, ECE, EEE & ME and the lunch break from 11.15 AM to 12:05 PM for S1/S2, Higher semester of CE, BT & BCE, MCA & M.Tech students.
- The students should be inside the classroom before 8.30 AM.
- Students will not be permitted to leave the campus between 8.30 AM and 3.30 PM without the prior permission/sanction of the Director / Principal. If the students leave the campus without proper permission, the matter will be informed to the parents. If it is repeated a fine of Rs 1000 /- will be collected on intimation to the parents.
- Unauthorised absence from the classes will be taken seriously and disciplinary action will be taken. Sanction should be obtained from the HOD in advance for any absence. If the absence is more than 3 day's medical certificate should be produced. All medical leaves have to be sanctioned by the Director / Principal. Leave letter to be submitted on the day they come back to the college. No late leave will be considered.
- Students, who have no class, are not allowed to loiter around in the campus during class hours disturbing other classes. Abstaining from class "en-masse" is considered as a serious offence for which disciplinary actions will be taken.

- Silence should be maintained in library and computer labs. Library books should be handled with care. Rules pertaining to the issue of library books should be adhered to.
- As per the High Court Order mobile phones are banned inside the college campus. Strict disciplinary action, including confiscation of the mobile phone and a fine of Rs.1000/- will be imposed on students who violate the above rule.
- Ragging in any form is strictly prohibited in the college according to the directions of the AICTE and Government of India. Penal measures to those found guilty of ragging will extend up to immediate expulsion from the college.
- Students are expected to maintain a very high order of discipline. No effort shall be spared to conduct themselves at all times, at all places, and on all occasion in a manner worthy of students of a course which is to lead them to high responsibility in the future.
- Students are expected to adhere to the dress code prescribed by the institution while in campus. Boys should wear trousers with formal belts (only black / brown colours permitted) and insert shirts with half sleeves and their feet should be protected with socks and shoes. **Jeans and T-shirts are not permitted.** Girls should wear salwar kameez and dhuppatta. Girls should take care to tuck their hair. **The ID card should be displayed whenever they are inside the campus.** Strict disciplinary actions will be taken on the spot against those who violate the dress code. Any change from the dress code is permitted with the consent of the Director / Principal on special occasions.
- Every student shall provide himself/herself with the entire prescribed textbooks, drawing instruments and accessories and other such articles required for the classroom work.
- The college properties should be handled with maximum care and everything possible should be done to preserve the cleanliness, and tidiness of the building, furniture, library, buses and premises. Fine will be imposed for damages to equipment, furniture, building etc.
- The students are to attend all the activities organized by the college otherwise fine will be imposed.
- A number of additional programs in the form of Add-on courses, remedial classes, extramural lecture, study tour, industrial visit, finishing school, soft skill training etc are arranged for the development of the students. It is mandatory to all the eligible students to attend all these programs
- From the academic year 2018-2019 the institution will be following 5 days week (Monday to Friday) timetable.

**The following additional facilities are available for the students:**

- 24 hours ambulance facility
- Infirmary with the service of a doctor at BT&BCE Department.
- Sick rooms are available in the EEE Department (Ladies – 1<sup>st</sup> floor & Gents – 2<sup>nd</sup> floor)
- 24 hours Internet facility both for day scholars and hostlers.

**Director's / Principal's decision regarding the discipline will be final.**

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## July 19

| Contact Days | Date | Day | Details   | Week Assignments |
|--------------|------|-----|---|------------------|
|              | 1    | Mon |   |                  |
|              | 2    | Tue |   |                  |
|              | 3    | Wed |   |                  |
|              | 4    | Thu |   |                  |
|              | 5    | Fri |   |                  |
|              | 6    | Sat |   |                  |
|              | 7    | Sun |   |                  |
|              | 8    | Mon |   |                  |
|              | 9    | Tue |   |                  |
|              | 10   | Wed |   |                  |
|              | 11   | Thu |   |                  |
|              | 12   | Fri |   |                  |
|              | 13   | Sat |   |                  |
|              | 14   | Sun |   |                  |
|              | 15   | Mon | <b>PTA meeting &amp; address by Director / Principal<br/>Industry Specific training for S7 Students</b> |                  |
|              | 16   | Tue | <b>Foundation course for S1 students<br/>Industry Specific training for S7 Students</b>                 |                  |
|              | 17   | Wed | "   |                  |
|              | 18   | Thu | "   |                  |
|              | 19   | Fri | "   |                  |
|              | 20   | Sat |   |                  |
|              | 21   | Sun |   |                  |
|              | 22   | Mon | <b>Induction programme for S1 Students<br/>Finishing School for S7 Students</b>                         |                  |
|              | 23   | Tue | "   |                  |
|              | 24   | Wed | "   |                  |
|              | 25   | Thu | "   |                  |
|              | 26   | Fri | "   |                  |
|              | 27   | Sat |   |                  |
|              | 28   | Sun |   |                  |
|              | 29   | Mon | <b>Induction programme for S1 Students</b>  |                  |
|              | 30   | Tue | "   |                  |
|              | 31   | Wed | <b>Karkidaka Vavu</b>   |                  |

Holidays

## August 19

| Contact Days | Date | Day | Details  | Week Assignments                   |
|--------------|------|-----|--|------------------------------------|
|              | 1    | Thu | Commencement of Odd Semester Classes<br>B.Tech - S1, S3, S5 & S7<br>MCA - S1, S3 & S5<br>M.Tech - S1 & S3<br>Induction programme for S1 Students |                                    |
|              | 2    | Fri | Induction programme for S1 Students  |                                    |
|              | 3    | Sat |  |                                    |
|              | 4    | Sun |  |                                    |
|              | 5    | Mbn |  |                                    |
|              | 6    | Tue |  |                                    |
|              | 7    | Wed |  |                                    |
|              | 8    | Thu |  |                                    |
|              | 9    | Fri |  |                                    |
|              | 10   | Sat |  |                                    |
|              | 11   | Sun | Bakrid   |                                    |
|              | 12   | Mbn |  |                                    |
|              | 13   | Tue |  |                                    |
|              | 14   | Wed |  |                                    |
|              | 15   | Thu | Independence Day   |                                    |
|              | 16   | Fri |  |                                    |
|              | 17   | Sat |  | Complete Assignment I / Tutorial I |
|              | 18   | Sun |  |                                    |
|              | 19   | Mbn |  |                                    |
|              | 20   | Tue |  |                                    |
|              | 21   | Wed |  |                                    |
|              | 22   | Thu |  |                                    |
|              | 23   | Fri | Sreekrishna Jayanthi   |                                    |
|              | 24   | Sat |  |                                    |
|              | 25   | Sun |  |                                    |
|              | 26   | Mbn |  |                                    |
|              | 27   | Tue |  |                                    |
|              | 28   | Wed | Ayyankali Jayanthi   |                                    |
|              | 29   | Thu |  |                                    |
|              | 30   | Fri |  |                                    |
|              | 31   | Sat |  |                                    |

Holidays

## September 19

| Contact Days | Date | Day |  | Week Assignments                     |
|--------------|------|-----|--|--------------------------------------|
|              | 1    | Sun |  |                                      |
|              | 2    | Mon | Publish the attendance of August Month             |                                      |
|              | 3    | Tue |  |                                      |
|              | 4    | Wed |  |                                      |
|              | 5    | Thu |  |                                      |
|              | 6    | Fri | <b>Onam Celebration</b>                            |                                      |
|              | 7    | Sat | <b>Onam Hldidays starts</b>                        |                                      |
|              | 8    | Sun |  |                                      |
|              | 9    | Mon | <b>Muharram</b>                                    |                                      |
|              | 10   | Tue | <b>First Cham</b>                                  |                                      |
|              | 11   | Wed | <b>Thiruvonam</b>                                  |                                      |
|              | 12   | Thu | <b>Third Onam</b>                                  |                                      |
|              | 13   | Fri | <b>Fourth Onam<br/>Sree Narayana Guru Jayanthi</b> |                                      |
|              | 14   | Sat |  | Complete Assignment II / Tutorial II |
|              | 15   | Sun |  |                                      |
|              | 16   | Mon | <b>College Reopens</b>                             |                                      |
|              | 17   | Tue | Exam Registration Begins                           |                                      |
|              | 18   | Wed |  |                                      |
|              | 19   | Thu | <b>Wednesday's TT</b>                              |                                      |
|              | 20   | Fri |  |                                      |
|              | 21   | Sat | <b>Sree Narayana Guru Samachi Day</b>              |                                      |
|              | 22   | Sun |  |                                      |
|              | 23   | Mon | <b>First series test</b>                           |                                      |
|              | 24   | Tue | "  |                                      |
|              | 25   | Wed | "  |                                      |
|              | 26   | Thu |  |                                      |
|              | 27   | Fri |  |                                      |
|              | 28   | Sat |  |                                      |
|              | 29   | Sun |  |                                      |
|              | 30   | Mon |  |                                      |

Holidays

## October 19

| Contact Days | Date | Day | Details                                   | Week Assignments                       |
|--------------|------|-----|---|--|
|              | 1    | Tue | Exam Registrations ends                   |  |
|              | 2    | Wed | <b>Gandhi Jayanthi</b>                    |  |
|              | 3    | Thu | Publish the attendance of September Month |  |
|              | 4    | Fri |   |  |
|              | 5    | Sat |   |  |
|              | 6    | Sun |   |  |
|              | 7    | Mon | <b>Mahanavami</b>                         |  |
|              | 8    | Tue | <b>Vijayadasami</b>                       |  |
|              | 9    | Wed |   |  |
|              | 10   | Thu |   |  |
|              | 11   | Fri | <b>Freshers Day - AN</b>                  | Complete Assignment III / Tutorial III |
|              | 12   | Sat |   |  |
|              | 13   | Sun |   |  |
|              | 14   | Mon |   |  |
|              | 15   | Tue |   |  |
|              | 16   | Wed |   |  |
|              | 17   | Thu |   |  |
|              | 18   | Fri |   |  |
|              | 19   | Sat |   |  |
|              | 20   | Sun |   |  |
|              | 21   | Mon |   |  |
|              | 22   | Tue |   |  |
|              | 23   | Wed |   |  |
|              | 24   | Thu | <b>Arts Festival</b>                      |  |
|              | 25   | Fri | <b>Illuminati</b>                         |  |
|              | 26   | Sat | <b>Illuminati - Working Day</b>           |  |
|              | 27   | Sun | <b>Deepavali</b>                          |  |
|              | 28   | Mon |   |  |
|              | 29   | Tue |   |  |
|              | 30   | Wed |   |  |
|              | 31   | Thu |   |  |

Holidays

## November 19

| Contact Days | Date | Day | Details  | Week Assignments                          |
|--------------|------|-----|--|---|
|              | 1    | Fri |  |   |
|              | 2    | Sat |  |   |
|              | 3    | Sun |  |   |
|              | 4    | Mbn | <b>Second Series Test</b>  |   |
|              | 5    | Tue | "  |   |
|              | 6    | Wed | "  |   |
|              | 7    | Thu |  | Complete<br>Assignment IV<br>/Tutorial IV |
|              | 8    | Fri |  |   |
|              | 9    | Sat | <b>Milad-i- Sherif</b>   |   |
|              | 10   | Sun |  |   |
|              | 11   | Mbn |  |   |
|              | 12   | Tue |  |   |
|              | 13   | Wed |  |   |
|              | 14   | Thu |  |   |
|              | 15   | Fri | <b>Class ends for S1 B.Tech, Publish Attendance</b>                    |   |
|              | 16   | Sat |  |   |
|              | 17   | Sun |  |   |
|              | 18   | Mbn | <b>Publish Internal Marks of all programs(B.Tech, MTech &amp; MCA)</b> |   |
|              | 19   | Tue |  |   |
|              | 20   | Wed |  |   |
|              | 21   | Thu | <b>Wednesday's TT</b>  |   |
|              | 22   | Fri |  |   |
|              | 23   | Sat |  |   |
|              | 24   | Sun |  |   |
|              | 25   | Mbn | <b>Class ends for all other programs, Publish Attendance</b>           |   |
|              | 26   | Tue |  |   |
|              | 27   | Wed | Exam S1/S8 B.Tech begins   |   |
|              | 28   | Thu |  |   |
|              | 29   | Fri |  |   |
|              | 30   | Sat |  |   |

Holidays



## December 19

| Contact Days | Date | Day | Details                                  | Week Assignments |
|--------------|------|-----|--|------------------|
|              | 1    | Sun |  |                  |
|              | 2    | Mon |  |                  |
|              | 3    | Tue |  |                  |
|              | 4    | Wed | Exam S7 B.Tech, S5 MCA and S3 PG Begins  |                  |
|              | 5    | Thu | Exam S3 B.Tech, S3 MCA and S1 PG Begins  |                  |
|              | 6    | Fri | Exam S5 B.Tech, S1 MCA Begins            |                  |
|              | 7    | Sat |  |                  |
|              | 8    | Sun |  |                  |
|              | 9    | Mon |  |                  |
|              | 10   | Tue |  |                  |
|              | 11   | Wed |  |                  |
|              | 12   | Thu |  |                  |
|              | 13   | Fri |  |                  |
|              | 14   | Sat |  |                  |
|              | 15   | Sun |  |                  |
|              | 16   | Mon | <b>Commencement of S2 B.Tech Classes</b> |                  |
|              | 17   | Tue |  |                  |
|              | 18   | Wed |  |                  |
|              | 19   | Thu |  |                  |
|              | 20   | Fri |  |                  |
|              | 21   | Sat | <b>Christmas vacation begins</b>         |                  |
|              | 22   | Sun |  |                  |
|              | 23   | Mon |  |                  |
|              | 24   | Tue |  |                  |
|              | 25   | Wed | <b>Christmas</b>                         |                  |
|              | 26   | Thu |  |                  |
|              | 27   | Fri |  |                  |
|              | 28   | Sat |  |                  |
|              | 29   | Sun |  |                  |
|              | 30   | Mon |  |                  |
|              | 31   | Tue |  |                  |

Holidays

**SCHEME FOR B.TECH****SEMESTER I**

| SLOT         | COURSE NO. | COURSES  | L-T-P | HOURS          | CREDIT    |
|--------------|------------|--|-------|----------------|-----------|
| A            | BSC        | ENGINEERING MATHS (CALCULUS AND MULTI VARIABLE CALCULUS) | 3-1-0 | 4              | 4         |
| B<br>1/2     | BSC        | ENGINEERING PHYSICS                                      | 3-1-0 | 4              | 4         |
|              | BSC        | ENGINEERING CHEMISTRY                                    | 3-1-0 | 4              | 4         |
| C<br>1/2     | ESC        | ENGINEERING MECHANICS                                    | 2-1-0 | 3              | 3         |
|              | ESC        | ENGINEERING GRAPHICS                                     | 2-0-2 | 4              | 3         |
| D<br>1/2     | ESC        | BASICS OF CIVIL & MECHANICAL ENGINEERING                 | 4-0-0 | 4              | 4         |
|              | ESC        | BASICS OF ELECTRICAL & ELECTRONICS ENGINEERING           | 4-0-0 | 4              | 4         |
| E            | MNC        | LIFE SKILLS  | 2-0-2 | 4              | --        |
| S<br>1/2     | BSC        | ENGINEERING PHYSICS LAB                                  | 0-0-2 | 2              | 1         |
|              | BSC        | ENGINEERING CHEMISTRY LAB                                | 0-0-2 | 2              | 1         |
| T<br>1/2     | ESC        | CIVIL & MECHANICAL WORKSHOP                              | 0-0-2 | 2              | 1         |
|              | ESC        | ELECTRICAL & ELECTRONICS WORKSHOP                        | 0-0-2 | 2              | 1         |
| <b>TOTAL</b> |            |  |       | <b>23/24 *</b> | <b>17</b> |

\*Minimum hours per week

## Biotechnology & Biochemical Engineering

### SEMESTER – III

| Course Code     | Course Name                            | L-T-P           | Credits | ExamSlot |
|-----------------|--|-----------------|---------|----------|
| MA201           | Linear Algebra & Complex Analysis      | 3-1-0           | 4       | A        |
| BT201           | Fluid Flow and Particle Technology     | 3-1-0           | 4       | B        |
| BT203           | Concepts In Biochemical Engineering    | 4-0-0           | 4       | C        |
| BT205           | Bioprocess Calculations                | 3-1-0           | 4       | D        |
| BT207           | Microbiology                           | 3-0-0           | 3       | E        |
| HS200/<br>HS210 | Business Economics/Life Skills         | 3-0-0/<br>2-0-2 | 3       | F        |
| BT231           | Microbiology Lab                       | 0-0-3           | 1       | S        |
| BT233           | Fluid Flow and Particle Technology Lab | 0-0-3           | 1       | T        |

**Total Credits = 24**

**Hours: 28/29**

**Cumulative Credits= 71**

### SEMESTER –V

| Course Code | Course Name                                  | L-T-P | Credits | Exam Slot |
|-------------|--|-------|---------|-----------|
| BT301       | Mass Transfer Operations                     | 3-1-0 | 4       | A         |
| BT303       | Chemical and Biological Reaction Engineering | 3-0-0 | 3       | B         |
| BT305       | Cellular and Molecular Biology               | 3-0-0 | 3       | C         |
| BT307       | Bioprocess Instrumentation                   | 3-0-0 | 3       | D         |
| BT309       | Enzyme Engineering and Technology            | 3-0-0 | 3       | E         |
|             | Elective I                                   | 3-0-0 | 3       | F         |
| BT341       | Design Project                               | 0-1-2 | 2       | S         |
| BT331       | Biochemical Engineering Lab                  | 0-0-3 | 1       | T         |
| BT333       | Software Lab                                 | 0-0-3 | 1       | U         |

**Total Credits = 23**

**Hours: 28**

**Cumulative Credits= 117**

### Elective I

|       |   |
|-------|---|
| BT361 | Animal and Plant Cell Biotechnology         |
| BT363 | Metabolic Engineering and Synthetic Biology |
| BT365 | Proteomics and Protein Engineering          |
| BT367 | Tissue Engineering and Stem Cells           |

**SEMESTER –VII**

| Course Code | Course Name                                  | L-T-P | Credits | Exam Slot |
|-------------|--|-------|---------|-----------|
| BT401       | Process Dynamics and Control                 | 4-0-0 | 4       | A         |
| BT403       | Bioinformatics                               | 3-0-0 | 3       | B         |
| BT405       | Environmental Engineering                    | 3-0-0 | 3       | C         |
| BT407       | Bioenergy Engineering                        | 3-0-0 | 3       | D         |
| BT409       | Environmental Biotechnology                  | 3-0-0 | 3       | E         |
|             | Elective 3                                   | 3-0-0 | 3       | F         |
| BT451       | Seminar & Project Preliminary                | 0-1-4 | 2       | S         |
| BT431       | Reaction Engineering and Process Control Lab | 0-0-3 | 1       | T         |

**Total Credits = 22****Hours: 27****Cumulative Credits= 162****Elective III**

|       |   |
|-------|---|
| BT461 | Design of Biological Wastewater Treatment Systems |
| BT463 | Bioprocess Optimization Modelling and Simulation  |
| BT465 | Advanced Separation Processes                     |
| BT467 | Biopharmaceutical Technology                      |

**Civil Engineering****SEMESTER – III**

| Course Code | Course Name                       | L-T-P       | Credits | Exam Slot |
|-------------|-----------------------------------|-------------|---------|-----------|
| MA201       | Linear Algebra & Complex Analysis | 3-1-0       | 4       | A         |
| CE201       | Mechanics of Solids               | 3-1-0       | 4       | B         |
| CE203       | Fluid Mechanics – I               | 3-1-0       | 4       | C         |
| CE205       | Engineering Geology               | 3-0-1       | 4       | D         |
| CE207       | Surveying                         | 3-0-0       | 3       | E         |
| HS200/HS210 | Business Economics/Life Skills    | 3-0-0/2-0-2 | 3       | F         |
| CE231       | Civil Engineering Drafting Lab    | 0-0-3       | 1       | S         |
| CE233       | Surveying Lab                     | 0-0-3       | 1       | T         |

**Total Credits = 24****Hours: 28/29****Cumulative Credits= 71**

**SEMESTER –V**

| Course Code | Course Name                     | L-T-P | Credits | Exam Slot |
|-------------|---------------------------------|-------|---------|-----------|
| CE301       | Design of Concrete Structures I | 3-1-0 | 4       | A         |
| CE303       | Structural Analysis- II         | 3-0-0 | 3       | B         |
| CE305       | Geotechnical Engineering- II    | 3-0-0 | 3       | C         |
| CE307       | Geomatics                       | 3-0-0 | 3       | D         |
| CE309       | Water Resources Engineering     | 3-0-0 | 3       | E         |
|             | Elective 1                      | 3-0-0 | 3       | F         |
| CE341       | Design Project                  | 0-1-2 | 2       | S         |
| CE331       | Materials Testing Lab II        | 0-0-3 | 1       | T         |
| CE333       | Geotechnical Engineering Lab    | 0-0-3 | 1       | U         |

**Total Credits = 23****Hours: 28****Cumulative Credits= 117**

| <b>Elective I</b> |                                 |
|-------------------|---------------------------------|
| CE361             | Advanced Concrete Technology    |
| CE363             | Geotechnical Investigation      |
| CE365             | Functional Design of Buildings  |
| CE367             | Water Conveyance Systems        |
| CE369             | Disaster Management             |
| CE371             | Environment and Pollution       |
| CE 373            | Advanced Mechanics of Materials |

**SEMESTER –VII**

| Course Code | Course Name                      | L-T-P | Credits | Exam Slot |
|-------------|----------------------------------|-------|---------|-----------|
| CE401       | Design of Steel Structures       | 4-0-0 | 4       | A         |
| CE403       | Structural Analysis- III         | 3-0-0 | 3       | B         |
| CE405       | Environmental Engineering- I     | 3-0-0 | 3       | C         |
| CE407       | Transportation Engineering -II   | 3-0-0 | 3       | D         |
| CE409       | Quantity Surveying and Valuation | 3-0-0 | 3       | E         |
|             | Elective 3                       | 3-0-0 | 3       | F         |
| CE451       | Seminar & Project Preliminary    | 0-1-4 | 2       | S         |
| CE431       | Environmental Engineering Lab    | 0-0-3 | 1       | T         |

**Total Credits = 22****Hours: 27****Cumulative Credits= 162**

| Elective3 |  |
|-----------|--|
| CE461     | Water Hydrodynamics and Coastal Engineering        |
| CE463     | Bridge Engineering                                 |
| CE465     | Geo-Environmental Engineering                      |
| CE467     | Highway Pavement Design                            |
| CE469     | Environmental Impact Assessment                    |
| CE471     | Advanced Structural Design                         |
| CE473     | Advanced Computational Techniques and Optimization |

## Computer Science & Engineering

### SEMESTER – III

| Course Code  | Course Name                       | L-T-P        | Credits | Exam Slot |
|--------------|-----------------------------------|--------------|---------|-----------|
| MA201        | Linear Algebra & Complex Analysis | 3-1-0        | 4       | A         |
| CS201        | Discrete Computational Structures | 3-1-0        | 4       | B         |
| CS203        | Switching Theory and Logic Design | 3-1-0        | 4       | C         |
| CS205        | Data Structures                   | 3-1-0        | 4       | D         |
| CS207        | Electronics Devices & Circuits    | 3-0-0        | 3       | E         |
| HS210/ HS200 | Life Skills/Business Economics    | 3-0-0/ 2-0-2 | 3       | F         |
| CS231        | Data Structures Lab               | 0-0-3        | 1       | S         |
| CS233        | Electronics Circuits Lab          | 0-0-3        | 1       | T         |

Total Credits = 24

Hours: 28/29

Cumulative Credits= 71

### SEMESTER –V

| Course Code | Course Name                          | L-T-P | Credits | Exam Slot |
|-------------|--------------------------------------|-------|---------|-----------|
| CS301       | Theory of Computation                | 3-1-0 | 4       | A         |
| CS303       | System Software                      | 2-1-0 | 3       | B         |
| CS305       | Microprocessors and Microcontrollers | 2-1-0 | 3       | C         |
| CS307       | Data Communication                   | 3-0-0 | 3       | D         |
| CS309       | Graph Theory and Combinatorics       | 2-0-2 | 3       | E         |
|             | Elective 1                           | 3-0-0 | 3       | F         |
| CS341       | Design Project                       | 0-1-2 | 2       | S         |
| CS331       | System Software Lab                  | 0-0-3 | 1       | T         |
| CS333       | Application Software Development Lab | 0-0-3 | 1       | U         |

Total Credits = 23

Hours: 29

Cumulative Credits= 117

| Elective I |  |
|------------|--|
| CS361      | Soft Computing                           |
| CS363      | Signals and Systems                      |
| CS365      | Optimization Techniques                  |
| CS367      | Logic for Computer Science               |
| CS369      | Digital System Testing & Testable Design |

### SEMESTER –VII

| Course Code | Course Name                       | L-T-P | Credits | Exam Slot |
|-------------|-----------------------------------|-------|---------|-----------|
| CS401       | Computer Graphics                 | 4-0-0 | 4       | A         |
| CS403       | Programming Paradigms             | 3-0-0 | 3       | B         |
| CS405       | Computer System Architecture      | 3-0-0 | 3       | C         |
| CS407       | Distributed Computing             | 3-0-0 | 3       | D         |
| CS409       | Cryptography and Network Security | 3-0-0 | 3       | E         |
|             | Elective 3                        | 3-0-0 | 3       | F         |
| CS451       | Seminar & Project Preliminary     | 0-1-4 | 2       | S         |
| CS431       | Compiler Design Lab               | 0-0-3 | 1       | T         |

**Total Credits = 22**

**Hours: 27**

**Cumulative Credits= 162**

| Elective 3 |                          |
|------------|--------------------------|
| CS461      | Computational Geometry   |
| CS463      | Digital Image Processing |
| CS465      | Bio Informatics          |
| CS467      | Machine Learning         |
| CS469      | Computational complexity |

# Electrical & Electronics Engineering

## SEMESTER – III

| Course Code  | Course Name                       | L-T-P       | Credits | ExamSlot |
|--------------|-----------------------------------|-------------|---------|----------|
| MA201        | Linear Algebra & Complex Analysis | 3-1-0       | 4       | A        |
| EE201        | Circuits and, Networks            | 3-1-0       | 4       | B        |
| EE203        | Analogue Electronic Circuits      | 3-1-0       | 4       | C        |
| EE205        | DC Machines and Transformers      | 3-1-0       | 4       | D        |
| EE207        | Computer Programming              | 2-1-0       | 3       | E        |
| HS200/ HS210 | Business Economics/Life Skills    | 3-0-0/2-0-2 | 3       | F        |
| EE231        | Electronic Circuits Lab           | 0-0-3       | 1       | S        |
| EE233        | Programming Lab                   | 0-0-3       | 1       | T        |

**Total Credits – 24**

**Hours – 28/29**

**Cumulative Credits - 71**

## SEMESTER –V

| Course Code | Course Name                                   | L-T-P | Credits | Exam Slot |
|-------------|---|-------|---------|-----------|
| EE301       | Power Generation, Transmission and Protection | 3-1-0 | 4       | A         |
| EE303       | Linear Control Systems                        | 2-1-0 | 3       | B         |
| EE305       | Power Electronics                             | 3-0-0 | 3       | C         |
| EE307       | Signals and Systems                           | 3-0-0 | 3       | D         |
| EE309       | Microprocessor and Embedded Systems           | 2-1-0 | 3       | E         |
|             | Elective I                                    | 3-0-0 | 3       | F         |
| EE341       | Design Project                                | 0-1-2 | 2       | S         |
| EE331       | Digital Circuits and Embedded Systems Lab     | 0-0-3 | 1       | T         |
| EE333       | Electrical Machines Lab II                    | 0-0-3 | 1       | U         |

**Total Credits – 23**

**Hours – 28**

**Cumulative Credits - 117**

| Elective I |  |
|------------|--|
| EE361      | Object Oriented Programming            |
| EE363      | Computer Organization and Architecture |
| EE365      | Digital System Design                  |
| EE367      | New and Renewable Energy Systems       |
| EE369      | High Voltage Engineering               |



**SEMESTER –VII**

| Course Code | Course Name                            | L-T-P | Credits | Exam Slot |
|-------------|--|-------|---------|-----------|
| EE401       | Electronic communication               | 2-1-0 | 3       | A         |
| EE403       | Distributed generation and smart grids | 3-0-0 | 3       | B         |
| EE405       | Electrical system design               | 3-1-0 | 4       | C         |
| EE407       | Digital Signal Processing              | 3-0-0 | 3       | D         |
| EE409       | Electrical Machine Design              | 3-0-0 | 3       | E         |
|             | Elective 3                             | 3-0-0 | 3       | F         |
| EE451       | Seminar & Project Preliminary          | 0-1-4 | 2       | S         |
| EE431       | Power system Lab                       | 0-0-3 | 1       | T         |

**Total Credits – 22****Hours – 27****Cumulative Credits - 162**

| Elective 3 |                                       |
|------------|---------------------------------------|
| EE461      | Modern Operating Systems              |
| EE463      | Computer Aided Power Systems Analysis |
| EE465      | Power Quality                         |
| EE467      | Nonlinear Control Systems             |
| EE469      | Electric and Hybrid Vehicles          |

**Electronics & Communication Engineering****SEMESTER –III**

| Course Code  | Course Name                       | L-T-P        | Credits | Exam Slot |
|--------------|-----------------------------------|--------------|---------|-----------|
| MA201        | Linear Algebra & Complex Analysis | 3-1-0        | 4       | A         |
| EC201        | Network Theory                    | 3-1-0        | 4       | B         |
| EC203        | Solid State Devices               | 3-1-0        | 4       | C         |
| EC205        | Electronic Circuits               | 3-1-0        | 4       | D         |
| EC207        | Logic Circuit Design              | 3-0-0        | 3       | E         |
| HS200/ HS210 | Business Economics/Life Skills    | 3-0-0/ 2-0-2 | 3       | F         |
| EC231        | Electronic Devices & Circuits Lab | 0-0-3        | 1       | S         |
| EC233        | Electronic Design Automation Lab  | 0-0-3        | 1       | T         |

**Total Credits = 24****Hours: 28/29****Cumulative Credits= 71**

**SEMESTER –V**

| Course Code | Course Name                             | L-T-P | Credits | Exam Slot |
|-------------|---|-------|---------|-----------|
| EC301       | Digital Signal Processing               | 3-1-0 | 4       | A         |
| EC303       | Applied Electromagnetic Theory          | 3-0-0 | 3       | B         |
| EC305       | Microprocessors & Microcontrollers      | 3-0-0 | 3       | C         |
| EC307       | Power Electronics & Instrumentation     | 3-0-0 | 3       | D         |
| HS300       | Principles of Management                | 3-0-0 | 3       | E         |
|             | Elective 1                              | 3-0-0 | 3       | F         |
| EC341       | Design Project                          | 0-1-2 | 2       | S         |
| EC333       | Digital Signal Processing Lab           | 0-0-3 | 1       | T         |
| EC335       | Power Electronics & Instrumentation Lab | 0-0-3 | 1       | U         |

Cumulative Credits= 117

Total Credits = 23

Hours: 28

| Elective I |                         |
|------------|-------------------------|
| EC361      | Digital System Design   |
| EC363      | Optimization Techniques |
| EC365      | Biomedical Engineering  |
| EC360      | Soft Computing          |

**SEMESTER –VII**

| Course Code | Course Name                                     | L-T-P | Credits | Exam Slot |
|-------------|---|-------|---------|-----------|
| EC401       | Information Theory & Coding                     | 4-0-0 | 4       | A         |
| EC403       | Microwave & Radar Engg                          | 3-0-0 | 3       | B         |
| EC405       | Optical Communication                           | 3-0-0 | 3       | C         |
| EC407       | Computer Communication                          | 3-0-0 | 3       | D         |
| EC409       | Control Systems                                 | 3-0-0 | 3       | E         |
|             | Elective 3                                      | 3-0-0 | 3       | F         |
| EC451       | Seminar & Project Preliminary                   | 0-1-4 | 2       | S         |
| EC431       | Communication Systems Lab (Optical & Microwave) | 0-0-3 | 1       | T         |

Total Credits = 22

Hours: 27

Cumulative Credits= 162

| Elective 3 |                                |
|------------|--------------------------------|
| EC461      | Microwave Devices and Circuits |
| EC463      | Speech and Audio Processing    |
| EC465      | MEMS                           |
| EC467      | Pattern Recognition            |
| EC469      | Opto Electronic Devices        |

## Mechanical Engineering

### SEMESTER –III

| Course Code | Course Name                        | L-T-P        | Credits | Exam Slot |
|-------------|------------------------------------|--------------|---------|-----------|
| MA201       | Linear Algebra & Complex Analysis  | 3-1-0        | 4       | A         |
| ME201       | Mechanics of Solids                | 3-1-0        | 4       | B         |
| ME203       | Mechanics of Fluids                | 3-1-0        | 4       | C         |
| ME205       | Thermodynamics                     | 3-1-0        | 4       | D         |
| ME210       | Metallurgy & Materials Engineering | 3-0-0        | 3       | E         |
| HS200/HS210 | Business Economics/Life Skills     | 3-0-0/ 2-0-2 | 3       | F         |
| ME231       | Computer Aided Machine Drawing Lab | 0-0-3        | 1       | S         |
| CE230       | Material Testing Lab               | 0-0-3        | 1       | T         |

Total Credits = 24

Hours: 28/29

Cumulative Credits= 71

### SEMESTER –V

| Course Code | Course Name                                | L-T-P | Credits | Exam Slot |
|-------------|--|-------|---------|-----------|
| ME301       | Mechanics of Machinery                     | 3-1-0 | 4       | A         |
| ME303       | Machine Tools and Digital Manufacturing    | 3-0-0 | 3       | B         |
| ME305       | Computer Programming & Numerical Methods   | 2-0-1 | 3       | C         |
| EE311       | Electrical Drives & Control for Automation | 3-0-0 | 3       | D         |
| HS300       | Principles of Management                   | 3-0-0 | 3       | E         |
|             | Elective 1                                 | 3-0-0 | 3       | F         |
| ME341       | Design Project                             | 0-1-2 | 2       | S         |
| EE335       | Electrical and Electronics Lab             | 0-0-3 | 1       | T         |
| ME331       | Manufacturing Technology Lab I             | 0-0-3 | 1       | U         |

Total Credits = 23

Hours: 28

Cumulative Credits= 117

| Elective I |                                   |
|------------|-----------------------------------|
| ME361      | Advanced Fluid Mechanics          |
| ME363      | Composite Materials and Mechanics |
| ME365      | Advanced Metal Casting            |
| ME367      | Non-Destructive Testing           |
| ME369      | Tribology                         |
| ME371      | Nuclear Engineering               |
| ME373      | Human Relations Management        |

### SEMESTER –VII

| Course Code | Course Name                        | L-T-P | Credits | Exam Slot |
|-------------|------------------------------------|-------|---------|-----------|
| ME401       | Design of Machine Elements I       | 3-1-0 | 4       | A         |
| ME403       | Advanced Energy Engineering        | 3-0-0 | 3       | B         |
| ME405       | Refrigeration and Air Conditioning | 2-1-0 | 3       | C         |
| ME407       | Mechatronics                       | 3-0-0 | 3       | D         |
| ME409       | Compressible Fluid Flow            | 2-1-0 | 3       | E         |
|             | Elective 3                         | 3-0-0 | 3       | F         |
| ME451       | Seminar & Project Preliminary      | 0-1-4 | 2       | S         |
| ME431       | Mechanical Engineering Lab         | 0-0-3 | 1       | T         |

**Total Credits = 22**

**Hours: 27**

**Cumulative Credits= 162**

| Elective 3 |                                      |
|------------|--------------------------------------|
| ME461      | AerospaceEngineering                 |
| ME463      | AutomobileEngineering                |
| ME465      | IndustrialHydraulics                 |
| IE306      | Supply Chain and LogisticsManagement |
| ME467      | CryogenicEngineering                 |
| ME469      | Finite ElementAnalysis               |
| ME471      | OptimizationTechniques               |

## M.TECH – SCHEME

### APPLIED ELECTRONICS AND INSTRUMENTATION

#### SEMESTER 1

| Examination Slot | Course Number | Name                                    | L-T-P  | Internal Marks | End Semester Examination |                  | Credits |
|------------------|---------------|---|--------|----------------|--------------------------|------------------|---------|
|                  |               |   |        |                | Marks                    | Duration (hours) |         |
| A                | 01MA6031      | Algebraic Structures and Random Process | 3-0-0  | 40             | 60                       | 3                | 3       |
| B                | 01EC6101      | Instrumentation System Design           | 3-1-0  | 40             | 60                       | 3                | 4       |
| C                | 01EC6103      | CMOS Circuit Design                     | 3-1-0  | 40             | 60                       | 3                | 4       |
| D                | 01EC6105      | Advanced Digital Signal Processing      | 3-0-0  | 40             | 60                       | 3                | 3       |
| E                |               | Elective I                              | 3-0-0  | 40             | 60                       | 3                | 3       |
| S                | 01EC6999      | Research Methodology                    | 0-2-0  | 100            |                          |                  | 2       |
| T                | 01EC6191      | Seminar I                               | 0-0-2  | 100            |                          |                  | 2       |
| U                | 01EC6193      | Instrumentation & Control System Lab    | 0-0-2  | 100            |                          |                  | 1       |
|                  |               |   | 15-4-4 | 500            | 300                      | -                | 22      |

TOTAL CONTACT HOURS : 23

TOTAL CREDITS : 22

| Elective I |                                |
|------------|--------------------------------|
| 01EC6111   | Advanced Digital System Design |
| 01EC6113   | Mixed Signal Circuit Design    |
| 01EC6115   | Advanced Process Control       |

### SEMESTER 3

| Examination Slot | Course Number | Name              | L-T-P         | Internal Marks | End Semester Examination |                  | Credits   |
|------------------|---------------|-------------------|---------------|----------------|--------------------------|------------------|-----------|
|                  |               |                   |               |                | Marks                    | Duration (hours) |           |
| A                |               | Elective IV       | 3-0-0         | 40             | 60                       | 3                | 3         |
| B                |               | Elective V        | 3-0-0         | 40             | 60                       | 3                | 3         |
| T                | 01EC7191      | Seminar II        | 0-0-2         | 100            |                          |                  | 2         |
| W                | 01EC7193      | Project (Phase 1) | 0-0-12        | 50             |                          |                  | 6         |
|                  |               | <b>TOTAL</b>      | <b>6-0-14</b> | <b>230</b>     | <b>120</b>               | <b>-</b>         | <b>14</b> |

**TOTAL CONTACT HOURS : 20**

**TOTAL CREDITS : 14**

| <b>Elective IV</b> |  |
|--------------------|--|
| 01EC7111           | RF MEMS Circuit Design                   |
| 01EC7113           | Low Power VLSI Design                    |
| 01EC7115           | Robot Dynamics and Control               |
| 01EC7117           | Computer Aided Design of Control Systems |

| <b>Elective V</b> |                                       |
|-------------------|---------------------------------------|
| 01EC7119          | PWM Schemes for Power Converters      |
| 01EC7121          | Wireless Sensors and Systems          |
| 01EC7123          | Algorithms for VLSI Design Automation |
| 01EC7125          | System Modeling and Identification    |

## COMPUTER SCIENCE & ENGINEERING

### SEMESTER 1

| Examination Slot | Course Number | Name  | L-T-P         | Internal Marks | End Semester Examination |                  | Credits   |
|------------------|---------------|---|---------------|----------------|--------------------------|------------------|-----------|
|                  |               |   |               |                | Marks                    | Duration (hours) |           |
| A                | 01CS6101      | Mathematical Foundations of Computing Systems | 3-0-0         | 40             | 60                       | 3                | 3         |
| B                | 01CS6103      | Topics in Database Technology                 | 3-1-0         | 40             | 60                       | 3                | 4         |
| C                | 01CS6105      | Advanced Data Structures and Algorithms       | 3-1-0         | 40             | 60                       | 3                | 4         |
| D                | 01CS6107      | Advanced Software Engineering                 | 3-0-0         | 40             | 60                       | 3                | 3         |
| E                |               | Elective I                                    | 3-0-0         | 40             | 60                       | 3                | 3         |
| S                | 01CS6999      | Research Methodology                          | 0-2-0         | 100            |                          |                  | 2         |
| T                | 01CS6191      | Seminar I                                     | 0-0-2         | 100            |                          |                  | 2         |
| U                | 01CS6193      | Algorithm Design Laboratory                   | 0-0-2         | 100            |                          |                  | 1         |
|                  |               | <b>TOTAL</b>                                  | <b>15-4-4</b> | <b>500</b>     | <b>300</b>               | <b>-</b>         | <b>22</b> |

**TOTAL CONTACT HOURS : 23**

**TOTAL CREDITS : 22**

| Elective I |  |
|------------|--|
| 01CS6151   | Data Warehousing & Mining              |
| 01CS6153   | Data Compression Techniques            |
| 01CS6155   | Advanced Topics in Distributed Systems |
| 01CS6157   | Image Processing                       |
| 01CS6159   | Cloud Computing                        |

**SEMESTER 3**

| Examination Slot | Course Number | Name              | L-T-P         | Internal Marks | End Semester Examination |                  | Credits   |
|------------------|---------------|-------------------|---------------|----------------|--------------------------|------------------|-----------|
|                  |               |                   |               |                | Marks                    | Duration (hours) |           |
| A                |               | Elective IV       | 3-0-0         | 40             | 60                       | 3                | 3         |
| B                |               | Elective V        | 3-0-0         | 40             | 60                       | 3                | 3         |
| T                | 01CS7191      | Seminar II        | 0-0-2         | 100            |                          |                  | 2         |
| W                | 01CS7193      | Project (Phase 1) | 0-0-12        | 50             |                          |                  | 6         |
|                  |               | <b>TOTAL</b>      | <b>6-0-14</b> | <b>230</b>     | <b>120</b>               | <b>-</b>         | <b>14</b> |

**TOTAL CONTACT HOURS : 20**

**TOTAL CREDITS : 14**

| <b>Elective IV</b> |                            |
|--------------------|----------------------------|
| 01CS7151           | Complexity Theory          |
| 01CS7153           | Distributed Algorithms     |
| 01CS7155           | Advanced Computer Graphics |
| 01CS7157           | Ad-hoc and Sensor Networks |

| <b>Elective V</b> |                                      |
|-------------------|--------------------------------------|
| 01CS7171          | Principles of Network Security       |
| 01CS7173          | Fuzzy Set Theory & Applications      |
| 01CS7175          | Decision Support Systems             |
| 01CS7177          | Advanced Software Project Management |



## POWER SYSTEMS

### SEMESTER 1

| Examination Slot | Course Number | Name   | L-T-P         | Internal Marks | End Semester Examination |                  | Credits   |
|------------------|---------------|--|---------------|----------------|--------------------------|------------------|-----------|
|                  |               |  |               |                | Marks                    | Duration (hours) |           |
| A                | 01MA6021      | Advanced Mathematics & Optimisation Techniques | 3-0-0         | 40             | 60                       | 3                | 3         |
| B                | 01EE6401      | Power Electronic Application in Power System   | 3-1-0         | 40             | 60                       | 3                | 4         |
| C                | 01EE6301      | Modelling of Electrical Machines               | 3-1-0         | 40             | 60                       | 3                | 4         |
| D                | 01EE6405      | Operation and Control of Power System          | 3-0-0         | 40             | 60                       | 3                | 3         |
| E                | 01EE6407      | Power Quality                                  | 3-0-0         | 40             | 60                       | 3                | 3         |
| S                | 01EE6999      | Research Methodology                           | 0-2-0         | 100            |                          |                  | 2         |
| T                | 01EE6491      | Seminar I                                      | 0-0-2         | 100            |                          |                  | 2         |
| U                | 01EE6493      | Power System Lab I                             | 0-0-2         | 100            |                          |                  | 1         |
|                  |               | <b>TOTAL</b>                                   | <b>15-4-4</b> | <b>350</b>     | <b>300</b>               | <b>-</b>         | <b>22</b> |

TOTAL CONTACT HOURS : 23

TOTAL CREDITS : 22

### SEMESTER 3

| Examination Slot | Course Number | Name              | L-T-P         | Internal Marks | End Semester Examination |                  | Credits   |
|------------------|---------------|-------------------|---------------|----------------|--------------------------|------------------|-----------|
|                  |               |                   |               |                | Marks                    | Duration (hours) |           |
| A                |               | Elective IV       | 3-0-0         | 40             | 60                       | 3                | 3         |
| B                |               | Elective V        | 3-0-0         | 40             | 60                       | 3                | 3         |
| T                | 01EE7491      | Seminar II        | 0-0-2         | 100            |                          |                  | 2         |
| W                | 01EE7493      | Project (Phase 1) | 0-0-12        | 50             |                          |                  | 6         |
|                  |               | <b>TOTAL</b>      | <b>6-0-14</b> | <b>230</b>     | <b>120</b>               | <b>-</b>         | <b>14</b> |

TOTAL CONTACT HOURS : 20

TOTAL CREDITS : 14

## Master of Computer Applications

### SCHEME

#### Semester – I (KTU)

| Course No. | Master of Computer Applications (Regular) | Hours/ Weeks |          |          | IA Marks   | ESE Marks  | Total Marks | Credits   | Exam |
|------------|---|--------------|----------|----------|------------|------------|-------------|-----------|------|
|            |   | L            | T        | P        |            |            |             |           |      |
|            | Course (Semester II)                      |              |          |          |            |            |             |           |      |
| RLMCA101   | Problem Solving and Computer Programming  | 3            | 1        |          | 40         | 60         | 100         | 4         | A    |
| RLMCA103   | Discrete Mathematics                      | 3            | 1        | -        | 40         | 60         | 100         | 4         | B    |
| RLMCA105   | Applied Probability and Statistics        | 3            | 1        | -        | 40         | 60         | 100         | 4         | C    |
| RLMCA107   | Principles of Management                  | 3            | 1        | -        | 40         | 60         | 100         | 4         | D    |
| RLMCA109   | Digital Fundamentals                      | 3            | 1        | -        | 40         | 60         | 100         | 4         | E    |
| RLMCA131   | Programming Lab                           | -            |          | 4        | 100        |            | 100         | 1         | S    |
| RLMCA133   | Applied Statistics Lab                    | -            |          | 4        | 100        |            | 100         | 1         | T    |
|            |   | <b>15</b>    | <b>5</b> | <b>8</b> | <b>400</b> | <b>300</b> | <b>700</b>  | <b>22</b> |      |

#### Semester – III (KTU)

| Course No. | Master of Computer Applications (Regular) | Hours/ Weeks |          |          | IA Marks   | ESE Marks  | Total Marks | Credits   | Exam |
|------------|---|--------------|----------|----------|------------|------------|-------------|-----------|------|
|            |   | L            | T        | P        |            |            |             |           |      |
|            | Course (Semester II)                      |              |          |          |            |            |             |           |      |
| RLMCA201   | Computer Networks                         | 3            | 1        | -        | 40         | 60         | 100         | 4         | A    |
| RLMCA203   | Software Engineering                      | 3            | 1        | -        | 40         | 60         | 100         | 4         | B    |
| RLMCA205   | Database Management Systems               | 3            | 1        | -        | 40         | 60         | 100         | 4         | C    |
| RLMCA207   | Design and Analysis of Algorithms         | 3            | 1        | -        | 40         | 60         | 100         | 4         | D    |
| RLMCA209   | Web Programming                           | 3            | 1        | -        | 40         | 60         | 100         | 4         | E    |
| RLMCA231   | Database Lab                              | -            |          | 4        | 100        |            | 100         | 1         | S    |
| RLMCA233   | Web Programming Lab                       | -            |          | 4        | 100        |            | 100         | 1         | T    |
|            |   | <b>15</b>    | <b>5</b> | <b>8</b> | <b>400</b> | <b>300</b> | <b>700</b>  | <b>22</b> |      |

**Semester –V (KTU)**

| Course No. | Master of Computer Applications (Regular) | Hours/ Weeks |          |           | IA Marks   | ESE Marks  | Total Marks | Credits   | Exam |
|------------|---|--------------|----------|-----------|------------|------------|-------------|-----------|------|
|            |   | L            | T        | P         |            |            |             |           |      |
| RLMCA301   | Web Data Mining                           | 3            | 1        | -         | 40         | 60         | 100         | 4         | A    |
| RLMCA303   | E-Commerce                                | 3            | -        | -         | 40         | 60         | 100         | 3         | B    |
| RLMCA305   | Cryptography and Cyber Security           | 3            | 1        | -         | 40         | 60         | 100         | 4         | C    |
| RLMCA3--   | Elective II                               | 3            | 1        | -         | 40         | 60         | 100         | 4         | D    |
| RLMCA3--   | Elective III                              | 3            | 1        | -         | 40         | 60         | 100         | 4         | E    |
| RLMCA341   | Seminar                                   | -            | -        | 2         | 50         | -          | 50          | 2         | S    |
| RLMCA351   | Mini Project                              | -            | -        | 8         | 150        | -          | 150         | 2         | T    |
|            |   | <b>15</b>    | <b>4</b> | <b>10</b> | <b>400</b> | <b>300</b> | <b>700</b>  | <b>23</b> |      |

| <b>ELECTIVE-II</b> |                         |
|--------------------|-------------------------|
| RLMCA361           | Compiler Construction   |
| RLMCA363           | IPR and Cyber Law       |
| RLMCA365           | Cyber Forensics         |
| RLMCA367           | Internet of Things      |
| RLMCA369           | Python Programming      |
| RLMCA371           | Social Network Analysis |

| <b>ELECTIVE-III</b> |                                    |
|---------------------|------------------------------------|
| RLMCA381            | Cloud Computing                    |
| RLMCA383            | Human Computer Interaction         |
| RLMCA385            | Bioinformatics                     |
| RLMCA387            | Computer Graphics                  |
| RLMCA389            | Parallel and Distributed Computing |
| RLMCA391            | Artificial Intelligence            |

## List of Faculty Members

| Sl.No  | Name                     | Designation         | Phone                | E-mail IDs                    |
|--|--------------------------|---------------------|----------------------|-------------------------------|
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| Tuesday   |   |   |   |   |   |   |   |
| Wednesday |   |   |   |   |   |   |   |
| Thursday  |   |   |   |   |   |   |   |
| Friday    |   |   |   |   |   |   |   |

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