College Diary
and
Academic Calendar
2016-17

Vidya Academy of Science & Technology

(A Unit of Vidya International Charitable Trust)
Thalakkottukara P.O., Thrissur - 680501.

College Diary & Academic Calendar
2016–17

Vidya Academy of Science & Technology

Thalakkottukara, Thrissur – 680501

College Diary & Academic Calendar 2016–17

For consistency, certain styles have been adopted in the preparation of this book. These are based on the recommendations contained in *The Chicago Manual of Style, 16th Edition*, The University of Chicago Press, Chicago, 2010.

1. *Periods with abbreviations*: Use periods with abbreviations that end in a lowercase letter: p. (page), vol., e.g., i.e., etc., a.k.a., a.m., p.m., Ms., Dr., et al. (et is not an abbreviation; al. is). An exception may be made for the few academic degrees that end in a lowercase letter) (§10.4).

2. *Academic degrees*: Chicago recommends omitting periods in abbreviations of academic degrees (BA, DDS, etc.) unless they are required for reasons of tradition or consistency (§10.20).

3. The designations are set off by commas when they follow a personal name (§10.20).

4. *Initials in personal names*: Initials standing for given names are followed by a period and a space. A period is normally used even if the middle initial does not stand for a name (as in Harry S. Truman) (§10.12).

Some further conventions followed:

1. The abbreviation APJAKTU has been used to denote "A. P. J. Abdul Kalam Technological University".

2. In the description of the curricula of the various programmes, to save space, the following non-standard abbreviations have been used.

CC	Course Code	L	Lecture
Cr	Credits	Mk	Marks
ES	Examination Slot	P	Practical
ESE	End Semester Examination	T	Tutorial
Hr	Duration in hours	Wk	Week
ICA	Internal Continuous Assessment		

Contact Details

Vidya Academy of Science & Technology

A unit of Vidya International Charitable Trust
Approved by All India Council of Technical Education
Affiliated to both APJAKTU and Calicut University
An ISO 9001 : 2008 certified institution

Contact details

Vidya Academy of Science & Technology

College Office
Thalakottukara P.O.,
Thrissur - 680501, Kerala, India
Phone: +91-4885-287751/287752
Fax: +91-4885-288366
Email: `principal@vidyaacademy.ac.in`
Website: `www.vidyaacademy.ac.in`

Vidya International Charitable Trust

Corporate Office
Sun Tower, East Fort
Thrissur - 680005, Kerala, India
Phone: +91-487-2442571/2442572
Fax: +91-487-2442572
Email: `vidyaict@vidyaacademy.ac.in`
Website: `www.vidyaict.com`

Student Profile

Name   : ....

Code no.   :..

Faculty advisor   : ....

Branch   :..

Local address   :..

                         :..

                         :..

                         :..

Telephone   :..

E-mail   :..

Parent's name & Address   :..

                         :..

                         :..

                         :..

                         :..

Telephone   :..

E-mail   :..

Date of birth   : ....

Allergic to   :..

Blood group   :..

In case of emergency, inform : ....

Emergency telephone number   :..

Signature   : ....

Date   :..

Contents

VISION

Progress through education

MISSION

To seek, strive for and scale greater heights of quality education

Vidya Academy of Science and Technology

Welcome to Vidya

Vidya Academy of Science and Technology (VAST) was established in August 2003 with the aim of providing outcome based education to students of engineering and technology. An experiential mission statement aligned to a futuristic vision holds the entire institution and the stakeholders together in the continuous pursuit of excellence. In order to achieve the education objectives, scaling up the eco and infrastructures, vitalizing teaching-learning structures and resources, and engineering of proactive procedures and practices are instituted, as continuously evolving governance measures. VAST offers to its UG and PG students, value based education founded on fundamentals and core competence, research orientation, and social and life skills.

The quality policy of research formulated by the distinguished scientist Dr. Gangan Prathap and the eminent academic Prof. KBM Nambudirippad engages the whole campus and beyond in research activities at various levels.

Vidya Academy of Science & Technology is a unit of Vidya International Charitable Trust. The trust was constituted with a vision to provide state-of-the-art higher education and training to our younger generation who will be highly sought after by leading business houses world wide.

Er. P. K. Asokan   Dr. Sudha Balagopalan
Chairman   Principal
VICT   VAST

ദൈവദശകം

(ശ്രീ നാരായണഗുരുദേവ വിരചിതം)

1

ദൈവമേ! കാത്തുകൊൾകങ്ങു
കൈവിടാതിങ്ങു ഞങ്ങളേ;
നാവികൻ നീ ഭവാബ്ധിക്കോ-
രാവിവൻ തോണി നിൻപദം.

2

ഒന്നൊന്നായെണ്ണിയെണ്ണി ത്തൊ-
ട്ടെണ്ണും പൊരുളൊടുങ്ങിയാൽ
നിന്നിടും ദ്ൃക്കുപോല്യുള്ളം
നിന്നിലസ്പന്ദമാകണം.

3

അന്നവസ്ത്രാദി മുട്ടാതെ
തന്നു രക്ഷിച്ചു ഞങ്ങളെ
ധന്യരാക്കുന്ന നീയൊന്നു-
തന്നെ ഞങ്ങൾക്ക തമ്പുരാൻ.

4

ആഴിയും തിരയും കാറ്റും-
ആഴവും പോലെ ഞങ്ങളും
മായയും നിൻ മഹിമയും
നീയുമെന്നുള്ളിലാകണം.

5

നീയല്ലോ സൃഷ്ടിയും സ്രഷ്ടാ-
വായതും സൃഷ്ടിജാലവും
നീയല്ലോ ദൈവമേ, സൃഷ്ടി-
യ്ക്കുള്ള സാമഗ്രിയായതും.

6

നീയല്ലോ മായയും മായാ-
വിയും മായാവിനോദനം
നീയല്ലോ മായയെനീക്കി -
സ്സായൂജ്യം നൽകുമാര്യനും.

7

നീ സത്യം ജ്ഞാനമാനന്ദം
നീ തന്നെ വർത്തമാനവും
ഭൂതവും ഭാവിയും വേറ-
ല്ലോതും മൊഴിയുമോർക്കിൽ നീ.

8

അകവും പുറവും തിങ്ങും
മഹിമാവാർന്ന നിൻ പദം
പുകഴ്ത്തുന്നൂ ഞങ്ങളങ്ങു
ഭഗവാനേ, ജയിയ്ക്കുക.

9

ജയിയ്ക്കുക മഹാദേവ,
ദീനാവന പരായണാ,
ജയിയ്ക്കുക ചിദാനന്ദ,
ദയാസിന്ധോ ജയിയ്ക്കുക.

10

ആഴമേറും നിൻ മഹസ്സാ-
മാഴിയിൽ ഞങ്ങളാകവേ
ആഴണം വാഴണം നിത്യം
വാഴണം വാഴണം സുഖം.

1
The Management of the College

Vidya International Charitable Trust (VICT)
(Promoter of Vidya Academy of Science and Technology)

Vidya International Charitable Trust (VICT)is a non-profit charitable trust formed by a group of philanthropic non-resident Indians (NRI) from all over the world, registered at Thiruvananthapuram in December 2000. Trustees are NRl's from different countries, from USA to Singapore. The vision of the Trust is to serve and contribute to society through the pursuit of higher education.

In order to realise this vision, the trustees who were all well placed outside the country have, as a gesture of gratitude to their mother country, decided to establish world-class educational and research centres. Vidya Academy of Science & Technology is the culmination of their long-cherished dream.

Under the provisions of the Trust Deed, the Board of Trustees is the custodian of the Trust and all its properties. The Board, in turn, vests the management and control of Vidya Academy of Science & Technology and other ventures of the Trust on an Executive Committee of eleven Trustees elected from the Board of Trustees.

The current Executive Committee comprises the following Trustees, who are also the Author Trustees.

1. Er. P. K. Asokan (Chairman)

2. Mr. Samson Checkove (Vice-Chairman)

3. Mr. Sabu Soumian (Secretary)

4. Mr. Gireesh Kumar (Joint Secretary)

5. Mr. B. Sreekumar (Treasurer)

6. Dr. V. S. Ajaikumar

7. Mr. K. G. Sukumaran

8. Mr. K. K. Vidyadharan

9. Mr. K. P. R. Vijayan

10. Mr. Manoj Kumar K. B.

11. Mr. Radhakrishnan A. S.

Honourary Advisers

1. Dr. Gangan Prathap

   (Research Director, VICT,

   Former Director, National Institute of Science Communication and Information Resources (NISCAIR),

   Former Vice-Chancellor, Cochin University of Science & Technology)

2. Padmasree Dr. M. Chandrandathan

   (Former Director, Liquid Propulsion Systems Centre, ISRO,

   Former Director, Vikram Sarabhai Space Centre)

3. Mr. A. R. Sankaranarayanan, IRS (Retd.)

   (Former Managing Director, Steel Authority of India Ltd.,

   Director, Prime Minister's Secretariat)

4. Mr. P. V. Chandran

   (Managing Editor,

   Mathrubhumi Printing & Publishing Co.)

5. Dr. K. R. Rajappan

   (Director and Senior Plastic Surgeon,

   Specialist Hospital, Ernakulam)

6. Prof. Abdul Karim Musaliar

   (Member, TKM Engineering College Trust)

7. Mr. P. M. Abraham, IAS (Retd.)

   (Former Secretary, Ministry of Surface Transport, Govt. of India)

8. Dr. V. M. Manoharan

   (Former Deputy Director of Collegiate Education,

   Member of the Syndicate, University of Calicut).

9. Dr. Anil B.

   (Principal, Govt. Engineering College, Trivandrum ,

   Chairman, Indian Society for Technical Education, Kerala Section)

Management Representatives

1. **Executive Director**

   Er. G. Mohanachandran

   (Ph. 0487 2600440, 04885 287751 - 180 (Office))

2. **Research Director**

   Dr. Gangan Prathap

   (Ph. 04885 287751 - 179 (Office))

3. **Academic Director**

   Dr. B. Anil

   (Ph. 04885 287751)

4. **Project Director**

   Er. R. Devarajan

   (Ph. 9388137353)

5. **Finance Director**

   Mr. Suresh Lal

   (Ph. 7736035255, 04885 287751 125 (Office))

6. **Director - Student Welfare & Social projects**

   Dr. Latha Raj

   (Ph. 04885 287751/52 - 179 (Office))

7. **Trust Coordinators**

   Ms. Anitha Vijayan

2
Faculty and Staff

This section contains the details of the faculty and staff of the following bodies: Vidya Academy of Science & Technology, Thrissur Campus, Vidya International Charitable Trust and the Parent Teacher Association of Vidya Academy of Science & Technology.

Dean - PG Studies

Dr. M. N. Agnisarman Namboodiri, PhD, MISTE
(Ph. 9387100978)

Principal

Dr. Sudha Balagopalan, PhD, MISTE, MIEEE, MIET
(Ph. 0487 2332145, 9349196440)

Vice-Principal

Dr. V. N. Krishnachandran, PhD, MISTE
(Ph. 0487 2331545, 9846592627)

1   Department of Civil Engineering

i) Professor

1. Prof. K. V. Leela, MTech, FIE, MISTE
   Professor & Head   (Ph. 9447668683)
2. Dr. K. N. Ramachandran, MTech, PhD
   Visiting Professor   (Ph. 9447445148)
3. Prof. V. Jayadevan, MS
   Visiting Professor   (Ph. 9446546647)

ii) Associate Professor

1. Dr. C. Justine Jose, MTech, PhD, MISTE, MIE   (Ph. 9495667977)
2. Dr. Deepa Mohan, PhD, MTech, MBA, MISTE, MIIIE
   (Ph. 9847933722)
3. Ms. Abhilasha P. S., MTech, PhD*, MISTE   (Ph. 9496642371)

iii) Assistant Professor

1. Ms. Nirmala Krishnan, MTech, PhD*, MISTE   (Ph. 9567430155)
2. Ms. Anjali P. Sasidharan, MTech, MISTE   (Ph. 9495196766)
3. Ms. Nisha Varghese, MTech, MISTE   (Ph. 9995546850)
4. Ms. Sherin K. S., MTech, PhD*, MISTE   (Ph. 9497073038)
5. Ms. Abhary E., MTech, PhD*, MISTE   (Ph. 9539437388) (On leave)
6. Mr. Manu V. Thampy, MTech   (Ph. 9495850655)
7. Ms. Chithira Ajeeth, MTech   (Ph. 9446888319)
8. Ms. Chithra M., MTech   (Ph. 8157000839)
9. Ms. Seetha Pisharikkel, MTech   (Ph. 8281001561)
10. Mr. Nithin Mohan, MTech   (Ph. 8086673523)
11. Ms. Vandana V., MTech   (Ph. 9496346454)
12. Ms. Lakshmipriya C. P., MTech   (Ph. 8089077168)
13. Ms. Ponsy Paul, MTech, PGDBM   (Ph. 9846234857)
14. Ms. Kalyani Vijayakumar, MTech   (Ph. 8547593336)
15. Ms. Aswathy P., MTech   (Ph. 8907872103)
16. Ms. Roshni Vijay, MTech   (Ph. 9539122720)
17. Ms. Anu Maria Antony, MTech   (Ph. 9562920684)
18. Ms. Aida Isac P., MTech   (Ph. 9497365994)
19. Ms. Chaithra Chandran, MTech   (Ph. 9745145789)
20. Ms. Deepa M. V., MTech   (Ph. 9995394508)
21. Mr. Gokul Raveendran, MTech   (Ph. 9995888501)

iv) Trade Instructor

1. Mr. Sudhakaran T. T., ITI   (Ph. 9048561792)
2. Ms. Ashitha P. M., DCE, B.Tech   (Ph. 9539012681)
3. Ms. Jasmin Jagadheesh, DCE   (Ph. 9746221972)
4. Ms. Aswathy V. D., Diploma, B.Tech*   (Ph. 8129240323)
5. Mr. Mohanan M. S. (Contract), KGCE, (Ph. 9447991574)
6. Ms. Anaswara T.A., Diploma, B.Tech*   (Ph. 8606551465)
7. Ms. Sony K. Sudhi, Diploma   (Ph. 9809553189)

2   Department of Computer Science & Engineering

i) Professor

1. Dr. M. N. Agnisarman Namboodiri, PhD, MISTE
   Dean PG Studies   (Ph. 9387100978)

2. Col. M. P. Induchudan (Retd), ME, FIETE, FIE(I), MCSI,MISTE
   Professor & Chief Exam Superintendent   (Ph. 0487-2325678, 9349756344)

ii) Associate Professor

1. Ms. Sunitha C., MTech, PhD*, MISTE, MCSI Head (in charge)
   (Ph. 9446076935)

2. Mr. Sivadasan E. T., MCA, MTech, MISTE
   Systems Manager   (Ph. 0487 2443885, 8943157711)

iii) Assistant Professor

1. Ms. Beena M. V., MTech, PhD*, MISTE, AMIE   (Ph. 9744444332)

2. Ms. Aswathy M. R., MTech, PhD*, MISTE   (Ph. 9961995332)

3. Ms. Divya K. V., MTech, MISTE   (Ph. 04712363639, 9446379030)

4. Mr. Shanil K. N., MTech, MISTE, RHCE,
   IBM Certified Associate Developer   (Ph. 9744150464)

5. Ms. Nitha K. P., MTech, MBA, MISTE   (Ph. 9946742634)

6. Ms. Vidya M., MTech, MISTE   (Ph. 8943720347)

7. Ms. Geethu P. C., MTech, MISTE Ph :9846936001)

8. Ms. Remya P. C., MTech, DCE, MISTE   (Ph. 9048336108)

9. Mr. Amal Ganesh, MS, PG Diploma in Guidance & Counselling, MCSI,
   MISTE   (Ph. 9895016774)

10. Ms. Ayana Ajith, MTech, MISTE Ph. (9495964826)

11. Ms. Jucy Vareed, MTech, MISTE   (Ph. 9495505363)

12. Ms. Shameem S., PhD*, MTech, MISTE (On Leave)
    (Ph. 9447127840)

13. Mr. Jayakumar T. V., MTech, MISTE   (Ph. 9995783451)

14. Mr. Nakulraj K. R., MTech   (Ph. 04872636202, 9633371839)

15. Mr. Ravishankar S., MTech   (Ph. 0479 2328995, 9947223317)

16. Ms. Mahalakshmy A., MTech   (Ph. 9809019036)

17. Ms. Parvathy P. R., MTech   (Ph. 04872554892, 9747049669)

18. Ms. Rekha Raj C. T., MTech   (Ph. 9633413690)

19. Ms. Salitha K. K., MTech, MISTE   (Ph. 9746904292)

20. Ms. Rani Mohanlal, MTech   (Ph. 0474-2532288, 9605448953)

21. Ms. Greeshma Gopinath, MTech, DCE, PGDCA, MISTE
    (Ph. 9633371114)

22. Ms. Remya P. S., MTech, DCE, PGDCA, MISTE   (Ph. 9995280027)

23. Ms. Remisha Ravindran, ME   (Ph. 9526560604)

iv) Laboratory Staff

1. Mr. Shali K. R., MSc (CS), BLISc.
   Server Administrator   (Ph. 9846303531)

2. Mr. Martin P. R., BTech*, DCE, BCA
   Computer Programmer   (Ph. 9447593430)

v) Trade Instructor

1. Ms. Jesna C. G., PGDCA, MCA   (Ph. 9048670231)

2. Ms. Renuka K. V., BTech, DCE   (Ph. 9744492876)

3. Mr. Sreekumar C.B., DCE   (Ph. 9745797339)

4. Ms. Sreeja K., DCE, MCA*   (Ph. 9744504195)

5. Mr. Arun Lal, BTech, DCE, RHCE*   (Ph. 9961422974)

vi) Hardware Technician

1. Mr. Sibukumar S., DCHME, CCNA
   (Ph. 04912584635, 9400126739)

2. Mr. Krishna Prasad M. K., DIT, CCNA, CCAI
   (Ph. 9400323003)

3. Mr. Sreejith K. S. , BCA* (Contract)   (Ph. 9544556545)

3 Department of Electronics & Communication Engineering

i) Professor

1. Dr. Swapna Kumar S., PhD, FIE, C. Engg(I), MISTE, MIEEE
   Professor & Head   (Ph. 9995493058)

ii) Associate professor

1. Ms. Jeeva K. A., MTech, PhD*, MISTE (On Leave)
   (Ph. 9446075260)

iii) Assistant Professor

1. Ms. Divya Unni, MTech, MISTE   (Ph. 9446153508)

2. Ms. Resmi K. Rajan, MTech, MISTE   (Ph. 9495012520)

3. Mr. Rakesh V. S., MTech, PGDESD, MISTE   (Ph. 8547393655)

4. Ms. Fetsy K. Francis, MTech, MISTE   (Ph. 9037986238)

5. Ms. Reshma V. C., MTech, MISTE   (Ph. 9447674456)

6. Mr. Santumon S. D., MTech, MISTE   (Ph. 9544150505)

7. Ms. Swapana E. V. M., ME, MISTE   (Ph. 9745271035)

8. Mr. Anil M., MTech, MISTE, MIETE, AIE   (Ph. 8086850021)

9. Ms. Sandhya V. G., MTech, MISTE   (Ph. 8606255502)

10. Mr. Ramesh C. R., MTech, MISTE, MIETE, MIET, AIE   (Ph. 9539147421)

11. Mr. Varun Kesav M. N., MS, MISTE   (Ph. 8606080951)

12. Ms. Amritha Babu, MTech, MISTE   (Ph. 8943781466)

13. Mr. Shiju Aravindakshan M., MTech, MISTE   (Ph. 9846894455)

14. Ms. Honey Mol P. K., MTech, MISTE   (Ph. 9539059116)

15. Ms. Sleebi K. Divakaran, MTech, PhD*, MISTE   (Ph. 9895034871)

16. Ms. Jemy Jose Kakkassery, MTech, MISTE   (Ph. 9495364741)

17. Mr. Sojan Francis P., MTech   (Ph. 9746473282)

18. Ms. Sarika K. T., MTech, MISTE   (Ph. 9746276246)

19. Ms. Sruthi M., MTech   (Ph. 7356338867)

20. Ms. Ashitha P. R., MTech   (Ph. 8301032804)

21. Ms. Aswathy Surendran P., ME   (Ph. 9446760471)

22. Ms. Vandana M., ME   (Ph. 9495364874)

23. Ms. Reshma P.G., MTech   (Ph. 7025933645)

24. Mr. Suraj Rajappan, MTech   (Ph. 7795409645)

iv) Trade Instructor (Grade II)

1. Ms. Viji Vinodan, DEE, BCA, MCA   (Ph. 9048304513)

2. Ms. Sarika P. C., DEE, AMIE, MTech   (Ph. 9388965592)

v) Trade Instructor

1. Ms. Jeeja K. R., DEE, DCA   (Ph. 9846299453)

2. Ms. Shegi Prakash K. P., DAE   (Ph. 9446765504)

3. Mr. Anil P. Sreenivasan, DAE   (Ph. 8547914005)

4. Ms. Priyanka Vijayakumar, DEE, BTech   (Ph. 9388383858)

5. Mr. Aswin Vasanth K., DEE   (Ph. 9995050866)

6. Ms. Shilpa T. M, DEE, BTech   (Ph. 9946979519)

4 Department of Electrical & Electronics Engineering

i) Professor

1. Dr. Sudha Balagopalan, PhD
   Principal   (Ph. 9349196440)
2. Ms. Remani T., MTech, PhD*
   Professor & Head   (Ph. 9497625589)
3. Dr. T. N. Padmanabhan Nambiar, PhD
   Senior Professor - PG   (Ph. 9446332598)

ii) Associate Professor

1. Mr. Rajesh S. K., MTech, PhD*, MISTE   (Ph. 8593944056)
2. Ms. Mary P. Varghese, ME, PhD*, MISTE   (Ph. 9447525049)
3. Mr. Nimal Madhu, MTech, PhD*, MISTE   (Ph. 9961818039)

iii) Assistant Professor

1. Ms. Jasna S. B., ME, PhD*, MISTE   (Ph. 9495957765)
2. Ms. Anooja V. S., ME, MISTE   (Ph. 9567074008)
3. Ms. Neenu Thomas, ME, PhD*, MISTE   (Ph. 9446723144)
4. Mr. Suraj Damodaran, MTech, PhD*, MISTE   (Ph. 9400530398)
5. Ms. Akhila R., MTech, MISTE   (Ph. 8086586302)
6. Ms. Anu Kuriakose, ME, MISTE   (Ph. 9895312803)
7. Mr. Praveesh V. V., MTech   (Ph. 9446909893)
8. Mr. Bevin K. C., MTech   (Ph. 9496348171)
9. Ms. Renuka V. S., MTech   (Ph. 9605109356)
10. Mr. Arun Xavier, MTech   (Ph. 9995658014)
11. Mr. Krishnakumar M., MTech   (Ph. 9961665373)
12. Ms. Vasuda K. V., MTech   (Ph. 8089617294)
13. Ms. Suchithra K. S., MTech   (Ph. 8943786813)
14. Mr. Aravind T., MTech   (Ph. 8592854099)
15. Mr. Aswin T. Surendran, MTech   (Ph. 9495488355)
16. Mr. Vishnu Rach K. R., MTech
    Assistant Professor cum Research   (Ph. 9037941579)

iv) Trade Instructor

1. Mr. Anand E. T., DEC, BTech*   (Ph. 9846551842)
2. Mr. Rajesh K. R., BTech*, DEE, ITI   (Ph. 9446907260)
3. Mr. Arun P. R., BTech, DEE   (Ph. 9747213658)
4. Mr. Jayaraj K. V., DEE   (Ph. 8281093778)
5. Ms. Jisha P. R., DEE   (Ph. 9946195259)
6. Ms. Sayoojya V. J., DEE   (Ph. 8943654432)
7. Mr. Shibin P. V., DEE, BTech*   (Ph. 9961351944)

5   Department of Mechanical Engineering

i) Professor

1. Prof. K. V. Soolapani Varier, MTech, MISTE, FIE
   Professor & Head   (Ph. 0487-2337195, 8129253042)

2. Prof. K. B. Maheswaran Namboodiripad, PhD, MISTE, FIE
   (Visiting Professor)   (Ph. 9447007400)

ii) Associate Professor

1. Mr. Dileep K., MTech, PhD*, MISTE   (Ph. 9446635615)

2. Mr. Rajesh N. P., MTech, MISTE   (Ph. 0485 2895358, 9745505223)

3. Dr. Subin K. K., MTech, PhD, PDF

4. Dr. Sooraj K. Prabha, MTech, PhD   (Ph. 9400409797)

iii) Assistant Professor

1. Mr. Vibin Antony P., MTech, PhD*, MISTE   (Ph. 9349971545)
   (On leave)

2. Mr. Hareesh K., MTech, MBA(HR), PGDGAC, MISTE   (Ph. 9539328553)

3. Mr. Bhavin K. Bharath, MTech, MISTE   (Ph. 9447205706)

4. Mr. Shankar R., MTech, MISTE   (Ph. 9447185635)

5. Mr. Arun K. L., MTech, MISTE   (Ph. 9895602779)

6. Mr. Sarath Babu Ramachandran, MTech, MISTE   (Ph. 9895637817)

7. Mr. Praveen A. P., MTech, MISTE   (Ph. 9496347110)

8. Mr. Nice Thomachan, MTech, MISTE   (Ph. 9447309031)

9. Mr. Kiran Prakash, MTech, MISTE   (Ph. 9995321516)

10. Mr. Alex Chako C., MTech, PGDGAC, MISTE   (Ph. 9387646474)

11. Mr. Midhun P., MTech, MISTE   (Ph. 9497315940)

12. Mr. Asok Kumar K., MTech, MISTE   (Ph. 9526357316)

13. Mr. Anil Paul, MTech, MISTE   (Ph. 90485973950)

14. Mr. Aadars M. S., MTech, MASSE, MISTE   (Ph. 9946636342)

15. Mr. Vishakh Vijayan, MTech   (Ph. 9895416428)

16. Mr. Cinto P. A., MTech   (Ph. 9567022489)

17. Mr. Prasanth A. B., MTech   (Ph. 8547874759)

18. Mr. Ranjith E. R., MTech   (Ph. 9497319630)

19. Mr. Biju Louis P., MTech, PhD*, MISTE   (Ph. 9497625292)

20. Mr. Rahul V. R., MTech   (Ph. 8281618903)

21. Mr. Ayush K. R., MTech, PhD*, MECS, MISTE   (Ph. 9567317967)

22. Mr. Pillu V. Mohan, MTech,   (Ph. 8907127818)

iv) Workshop Superintendant

1. Mr. Velayudhan P., BTech   (Ph. 9846387390)

v) Foreman

1. Mr. N. K. Subramanian, DME   (Ph. 9497217918)

vi) Trade Instructor (Grade II)

1. Mr. Muraleedharan L. M., BTech, DME, MISTE   (Ph. 9747305575) (Contract)
2. Mr. Sudhan K. R., ITI, BA   (Ph. 9946622456)

vii) Trade Instructor

1. Mr. Vinod Kumar K., ITI, MSc (Psychology)   (Ph. 9847281101)
2. Mr. Rajan C. C., DME, BTech   (Ph. 9446234046)
3. Mr. Abhilash C. G., ITI, BA   (Ph. 9048337986)
4. Mr. Nikhil N. V., ITI (Ph. 9947542167)
5. Mr. Sreerag Sreenivasan, DME, BTech*   (Ph. 8943164019)
6. Mr. Sugunan M. G., DME, BARC Level II, ASNT Level II (RJ, MT & PT)   (Ph. 8593912585)
7. Mr. Jerin Poulose, ITI   (Ph. 9447993559)

6   Department of Production Engineering

i) Professor

1. Prof. T. K. Rajendran, MSc Engg., FIE, Chartered Engineer IE(I) Professor & Head   (Ph. 9847490416)

ii) Associate Professor

1. Mr. Anil Kumar K. R., MTech, MISTE   (Ph. 9447674534)

iii) Assistant Professor

1. Mr. Sangeeth K. K., MTech, PhD*, MISTE   (Ph. 9446836841)
2. Mr. Skariya P. D., MTech, PhD*, MISTE   (Ph. 9846136659)
3. Mr. Ramadas T., MTech, PhD*, MISTE   (Ph. 9037422676) (On leave)
4. Ms. Sisira P., MTech, MISTE   (Ph. 8594012586)
5. Mr. Silan Tharakan S., MTech, PhD*, MISTE   (Ph. 9496346413)
6. Mr. Suneesh E., MTech, PhD*, MISTE   (Ph. 9446881350)
7. Ms. Lakshmi N. S., MTech   (Ph. 9645233855)

8. Ms. Anjaly S. Kumar, MTech   (Ph. 8592856231)

iv) Trade Instructor

1. Mr. Vinod T. V., DME, CNC, AutoCAD   (Ph. 9747332009)

2. Mr. Shyju Antony, DME   (Ph. 9961524436)

3. Mr. Thankachan K. V., ITI   (Ph. 9544323662)

4. Mr. Sunish Kumar K. B., DME, BTech*   (Ph. 9656444849)

5. Mr. Madhu Kottickal, DME, BTech, MTech*   (Ph. 9495056847)

7   Department of Computer Applications

i) Professor

1. Dr. V. N. Krishnachandran, MSc, PhD, MISTE
   Professor & Head   (Ph. 9846592627)

ii) Associate Professor

1. Dr. Jisha Jose Panackal, MCA, PhD, MISTE   (Ph. 9400860285)

2. Ms. Reji C. Joy, MCA, PhD*, MISTE   (Ph. 9495464916)

3. Mr. Sajay K. R., MCA, MPhil, MTech, PhD*, MISTE
   (Ph. 9446926198)

4. Mr. Dijesh P., MCA, PhD*, MISTE, MCSI   (Ph. 9745032101)

iii) Assistant Professor

1. Ms. Aparna S. Balan, MCA, MTech, NET, MISTE   (Ph. 9847385747)

2. Ms. Salkala K. S., MCA, MISTE   (Ph. 9747552526)

3. Ms. Siji K. B., MCA, MPhil, MISTE   (Ph. 9744672277)

4. Mr. Manesh D., MCA, MISTE   (Ph. 9446370487)

5. Prof. Sivadas P. N., MCom   (Ph. 9447617820)
   Guest Faculty

iv) Trade Instructor

1. Ms. Jyothi P. R., MCA, BCom, BTech*, DCE   (Ph. 9605133965)

8   Department of Applied Sciences: Mathematics

i) Professor

1. Dr. Satheesh S., PhD, NET
   Professor & Head   (Ph. 9447724700)

2. Ms. Sulochana M. V., MSc
   (Ph. 9446088453)

ii) Associate Professor

1. Dr. Jiby K. Jose, PhD, MBA, PGDHRM, MPhil, MISTE
   (Ph. 9249738738)
2. Mr. Sudev N. K., MSc, MPhil, PhD*, MISTE   (Ph. 9497557876)
3. Ms. Bittu L. Lambi, MSc., MPhil, PhD*, MISTE (On leave)
   (Ph. 8289977405)
4. Mr. Susanth C., MSc, MPhil, PhD*, MISTE   (Ph. 9496469884)
5. Ms. Nisha A. B., MSc, MPhil, BEd, SET, PhD*, MISTE
   (Ph. 9447046175)

iii) Assistant Professor

1. Ms. Asha N. Nair, MSc, NET, MISTE   (Ph. 9847772000)
2. Ms. Siju K. C., MSc, MPhil, PhD*, MISTE   (Ph. 9497070129)
   (On leave)
3. Ms. Vijitha Mukundan, MSc, PhD*, NET, MISTE   (Ph. 9744503525)
   (On leave)
4. Ms. Rachana Sajeev, MSc, BEd, SET   (Ph. 0487 2632416)
5. Ms. Ida David, MSc, MPhil*   (Ph. 9446070212)
6. Ms. Shiny E.A., MSc, BEd, SET   (Ph. 9400872585)
7. Ms. Jiji P. J., MSc, BEd   (Ph. 9745933148)
8. Ms. Binitha K. M., MSc, BEd   (Ph. 9447771423)

9 Department of Applied Sciences: Physics

i) Assistant Professor

1. Ms. Sumitha P. K., MSc, BEd, SET   (Ph. 9947332209)
2. Mr. Liju Augustian, MSc, MPhil, BEd, PhD*   (Ph. 9946995694)

ii) Lab Assistant

1. Ms. Nimya M. G., BSc, MCA   (Ph. 9605475743)

10 Department of Applied sciences: Chemistry

i) Associate Professor

1. Ms. Sobha A. P., MSc, BEd, PhD, MISTE   (Ph. 9495740461)

ii) Assistant Professor

1. Dr. Vineetha C. P., PhD   (Ph. 9446360292)
2. Ms. Pretty Lal V. P., MSc, BEd, SET   (Ph. 9745431362)

iii) Lab Assistant (Grade II)

1. Mr. Shaji O. R., BSc   (Ph. 9961307535)

11   Department of Humanities

i) Associate Professor

1. Dr. Vishnu S., MA, NET, PhD, MISTE
   Head (in charge)   (Ph. 9495376987)

ii) Assistant Professor

1. Ms. Daisy P. K., MA, NET, PhD*, MISTE
   (On leave)   (Ph. 9947689317)

2. Ms. Divya Radhakrishnan, PG Diploma in Guidance & Counselling, MBA, MCom*, NET   (Ph. 9048255346)

12   Department of Physical Education

i) Associate Professor

1. Mr. Ramesh K. V., MPEd, MISTE   (Ph. 9947117184)

ii) Assistant Professor

1. Ms. Arundhathi Sasikumar, MPEd, MPhil, NET, MISTE
   (Ph. 9446142109)

13   Training & Placement Cell

1. Mr. Chakola Paul Johny, BSc, MCA   (Ph. 9496754571)
   Director, Placement & Training

2. Ms. Rini K. R., MSW, Placement Officer   (Ph. 9946762365)

3. Ms. Sheena Pradeep, BA, Placement Assistant   (Ph. 9497803979)

14   Library

1. Mr. Girish Kumar P. C., BSc, MLISc   (Ph. 9645716111)
   Librarian

2. Ms. Surabhi M. S., BSc, MLISc   (Ph. 9447937458)
   Assistant Librarian

3. Mr. Arjun K., BSc, Library Assistant   (Ph. 9388177794)

4. Mr. Aneesh M. A., Plus Two, Library Attender   (Ph. 8086223268)

5. Mr. Ajith K. A., BCA, Library Attender   (Ph. 9645017927)

6. Mr. Vijayanarayanan K., BCom, Library Attender   (Ph. 9961122994)

7. Mr. Praveen Chandran, DCA, Library Attender Grade II   (Ph. 9388290790)

15   Administrative Staff

1. Mr. Pradeep P. J.
   Manager (Administration)

2. Mr. Premarajan O. K., BA   (Ph. 9497066979)
   Office Supdt.

3. Ms. Dhanya Govind V., BSc, DCA   (Ph. 9495668717)
   Junior Supdt

4. Ms. Raji Shankar, BCom, PGDCA,Office Assistant   (Ph. 9645400194)

5. Ms. Mini N. B., MBA, PGDCA, PA to Principal   (Ph. 9847677955)

6. Ms. Bindu E. V. R., BA, Office Assistant-cum-Sec. to Vice-Principal
   (Ph. 9846730119)

7. Ms. Shyni K. Sasi, BSc, Office Assistant   (Ph. 9745346791)

8. Ms. Sabitha P. B., Receptionist-cum-Office Asst.   (Ph. 9744984507)

9. Ms. Anu A. S., Receptionist-cum-Office Asst.   (Ph. 9747668265)

10. Ms. Bindu K. S., Receptionist-cum-Office Asst.   (Ph. 8086060380)

11. Ms. Jisha K. V., Receptionist-cum-Office Asst.   (Ph. 9961606411)

12. Ms. Sujisha P. Jayaram, Receptionist-cum-Office Asst.   (Ph. 9645086533)

13. Mr. Krishnaprasad K., Accountant   (Ph. 9495959061)

14. Ms. Kunjamma Devassy, Office Attender   (Ph. 9400190923)

15. Mr. Santhoshkumar K. B., Driver cum Vehicle Supervisor   (Ph. 9495039781)

16. Mr. Sadanandan P. K., Driver   (Ph. 9947268232)

17. Ms. Naisha Shibu, Staff Nurse   (Ph. 9562236649)

16   PTA Staff

1. Mr. Sunilkumar K. V., Driver cum Attender   (Ph. 9446722276)

2. Ms. Valsala M. L., Bus Cleaner cum Attender   (Ph. 9747403724)

3. Mr. Anto M. V., Bus Cleaner cum Attender   (Ph. 9526957349)

4. Ms. Sujatha Manoharan, Bus Cleaner cum Attender   (Ph. 9656176179)

5. Mr. Rajan C. K. , Driver cum Attender   (Ph. 9846437628)

6. Mr. Jandas K. M., Attender   (Ph. 8086879665)

7. Mr. Mohanan K. K., Driver　　(Ph. 9895506181)

8. Mr. Chandran K. V., Driver　　(Ph. 9946690681)

9. Mr. Muraleedharan K. R., Attender　　(Ph. 8129742256)

10. Mr. Unnikrishnan P. K., Driver　　(Ph. 9946630077)

11. Mr. Anto B. G., Driver　　(Ph. 9072913092)

12. Mr. Satheesh T. S., Driver　　(Ph. 8138071508)

13. Mr. Sainath M. K., Driver　　(Ph. 9947193818)

14. Mr. Nandan V. S., Driver　　(Ph. 9995130154)

15. Mr. Suresh T. K., Driver　　(Ph. 9048875110)

16. Mr. Porinchu, Attender　　(Ph. 8943554351)

17. Mr. Vijayan P. K., Attender　　(Ph. 9605708735)

18. Mr. Mohanan C. P., Attender　　(Ph. 9846871454)

19. Ms. Thanuja Nandan, Attender　　(Ph. 8593856630)

17　Hostel Staff

1. Mr. Dileep K., MTech, MISTE, PhD*　　(Ph. 9446635615)
   Warden

2. Mr. John M. J., Sergeant　　(Ph. 7559036373)

3. Ms. Lini Sudhan, Asst. Matron　　(Ph. 9544348695)

4. Ms. Sathy Surendran, Asst. Matron　　(Ph. 9495631689)

5. Ms. Ramany T. R., Asst. Matron　　(Ph. 9947956981)

6. Mr. Reginold A. P., Steward　　(Ph. 9645414437)

18　VICT Staff

1. Mr. Shaji C. G., MBA(Finance), Chief Accountant　　(Ph. 9895132693)

2. Mr. Johny T. V., BCom, CA (Inter), Senior Accountant　　(Ph. 9744736735)

3. Mr. Santhosh C., BCom, HDC, Senior Accountant　　(Ph. 9446633444)

4. Mr. Sareesh Kumar A. S., BCom, PGDCA, Accountant　　(Ph. 9847861557)

5. Ms. Layana M. S., MBA (Finance), Accountant　　(Ph. 9645025206)

6. Ms. Chandini B., MBA (Finance), Accountant　　(Ph. 9995811871)

7. Ms. Sandhya K. V., BCom, Office Assistant   (Ph. 9048102915)

8. Mr. Abith Ganesh, MBA (Finance), PGDM, BCom
   Asst. Manager (Finance & Operations)   (Ph. 8089740591)

9. Ms. Reshmi Vasanth, MCom, MBA, Asst. Manager
   (HR & Student Welfare) (Ph. 9744207554)

10. Ms. Saritha A. R., BCom, Office Assistant   (Ph. 8086351715)

11. Mr. Gautham C. B., MBA (HR & Marketing), Office Assistant
    (Ph. 9061666999)

12. Ms. Sabana K. B., MSc, Office Assistant (HR & General)   (Ph. 9539958734)

13. Ms. Jini Kumaraswamy, BTech, Diploma (CSE), CCNA, RHCE
    Sr. Software Developer   (Ph. 9747428861)

14. Mr. Midhun Das A. M., BTech, Senior Software Developer   (Ph. 9895059911)

15. Ms. Aiswarya K. U., BTech, Software Developer   (Ph. 9645865446)

16. Mr. Pramod A., Driver   (Ph. 9946858214)

19   Construction

1. Mr. Pradeesh P. R., DEE, Site Supervisor (Electrical)   (Ph. 9846357005)

2. Mr. Rajeev T. S., ITI, Site Supervisor (Civil)   (Ph. 9846825321)

3. Mr. Binish M. K., ITI, Electrician   (Ph. 9495051301)

4. Mr. Gopalakrishnan C. S., BTech, Technical Assistant   (Ph. 9447668547)

20   Medical Centre

1. Dr. Raghunathan, MBBS   (Ph. 0487 2211636 (Res))
   Medical Officer

21   Counselling Centre

1. Ms. Asha T. V., MA   (Ph. 9847993292)
   Student Counsellor

An asterisk symbol (*) placed alongside a degree indicates that the person is pursuing that degree. The lists given above contain particulars of faculty and staff of the College as on 01 July 2016.

3
Programmes Offered

The programmes offered by the College are listed in this section. There are six under-graduate programmes in different branches of engineering and five post-graduate programmes in various specialisations including the post-graduate programme of Master of Computer Applications.

The following tables show the annual intakes to the various programmes under different categories like Government, Management, Fee Waiver Scheme, NRI Quota and the Lateral Entry Scheme.

BTech Programmes

Sl. No.	Branch of Engineering	Govt.	FWS	Mgt.	NRI	LE
1	Civil Engineering	60	6	54	6	12
2	Computer Science & Engineering	60	6	54	6	12
3	Electronics & Communication Engineering	60	6	54	6	12
4	Electrical & Electronics Engineering	30	3	27	3	6
5	Mechanical Engineering	60	6	54	6	12
6	Production Engineering	30	3	27	3	6

(FWS: Fee Waiver Scheme. LE: Lateral Entry.)

Post Graduate Programmes

Sl. No.	Programmes	Govt.	Mgt.
1	MTech (Power Electronics)	15	15
2	MTech (Computer Science & Engineering)	15	15
3	MTech (Structural Engineering)	12	12
4	MTech (Embedded Systems)	12	12
5	MCA (Master of Computer Applications)	30	30

4
Scholarships

A large number of scholarships have been instituted by several different agencies in Vidya Academy of Science & Technology to help students belonging to the less privileged sections of society fulfill their educational aspirations. Interested persons may refer to the College website for obtaining more information on the scholarships. The following is a list of the available scholarships.

Sl. No.	Name of Scholarship	Pro-gramme	Nos	Eligibility Criteria
1	Vidya Merit-cum-Means Full Fee Scholarships for socially and economically backward students.	BTech LET MCA	30 03 03	Family income not more than Rs. 1,00,000/- per annum. Admission in VAST through Management or Merit Quota of Kerala Government Entrance Exam.
2	Vidya Excellence Full Fee Scholarships for Entrance toppers	BTech	05	1-2000 rank holders in Kerala Government Entrance Exam. Admission in VAST.
3	Vidya Competence 90% Fee Scholarships for Entrance achievers	BTech	05	2001-3000 rank holders in Kerala Government Entrance Exam. Admission in VAST.
4	Vidya-AICTE Full Fee Waiver Scholarships for girls, handicapped students and students belonging to weaker sections	BTech	30	Admission under Govt. Quota. Family income not exceeding Rs. 6,00,000/- per annum.
5	Vidya Merit-cum-Means Half Fee Scholarships	BTech LET MCA	20 03 02	Admission under Govt. Quota. Family income not more than Rs. 1,50,000/- per annum.
6	Vidya Merit-cum-Means Full Fee Arts & Sports Scholarship	BTech	01	National level achievers in arts/sports events.

7	Vidya Merit-cum-Means Half Fee Arts & Sports Scholarship	BTech	01	National level achievers in arts/sports events.
8	Vidya-PTA Merit-cum-Means Scholarship (instituted by PTA)	BTech	02	Family income not more than Rs. 1,50,000/- per annum
9	Vidya Alumni Merit-cum-Means Scholarship (instituted by Vidya Alumni Association)	BTech	02	Family income not more than Rs. 1,50,000/- per annum
10	Vidya Principal's Scholarship for needy students	BTech	02	Based on academic merit and income
11	Vidya Full Fee Scholarship for wards of staff	BTech	01	Eligible for wards of non-teaching regular staff based on academic merit and salary below Rs. 15,000. Admission in Vidya College through merit quota of Kerala Govt. Entrance Examinations.
12	Vidya Half Fee Scholarship for wards of Staff	BTech	01	Eligible for wards of non-teaching regular staff based on academic merit and salary below Rs. 25,000. Admission in Vidya College through merit quota of Kerala Govt. Entrance Examinations.

5
General Guidelines to Students

1 On Rules and Regulations

Rules and regulations alone cannot make a good institution. However, they serve as guidelines for smooth conduct of the society. Life in the college campus should enable the students to reach their full potential, acquire good conduct, pleasing manners and gentlemanly behavior. Our country has a great and noble tradition and it is the duty of every one to be worthy of its tradition. No one has right to be in a college unless he/she is doing the academic work to the best of his/ her ability. Major part of our college work is done in the class rooms. Therefore a congenial atmosphere must exist in the class rooms where the teachers will be able to give their best and the students to receive to the utmost of his/her capacity. A conscious effort is needed to preserve the atmosphere for proper dissemination of knowledge. Rules and regulations are formulated to guide the students along the accepted traditions and to avoid disorder and confusions and should not be viewed as something imposed mechanically from outside.

2 General Rules

1. All students are strictly prohibited from participating in any activities which will disturb the classes and/or cause threat to the peaceful atmosphere of the college campus.

2. It is prohibited to organize or attend meetings other than the official ones which are specifically permitted by the Principal.

3. All expressions or activities which are immoral, antisocial, communal and anti national are strictly prohibited in the college campus and are punishable.

4. No student shall get involved in any political activities inside campus.

5. Smoking, chewing pan masala, chewing gum etc. are strictly prohibited in the college campus. Entering the college campus, consuming liquor and other intoxicating drugs, is also strictly prohibited.

6. Disfiguring/damaging/destroying the college property is strictly prohibited.

7. No one shall distribute or circulate any notices, pamphlets, leaflets, etc., within the campus and shall not exhibit any type of banners, flags, posters, etc. without the prior sanction of the Principal.

8. Unauthorized entry of outsiders into the campus is strictly prohibited. Unless permitted by the college authorities, students shall not bring or entertain outsiders inside the college campus.

9. Nobody shall collect money from others in the campus.

10. Any student who, is persistently insolent, or insubordinate or willfully and repeatedly commit mischief or is guilty of fraud or malpractice or who in the opinion of Principal, is likely to have an unwholesome influence on his fellow students or tarnish the reputation of the institution shall be removed from the rolls; the removal shall be either temporary or permanent subject to the gravity of the misconduct.

11. Students are not permitted to enter other classes.

12. College will not be responsible for loss of valuables/cash brought by the students to the campus.

13. Matters of misconduct or indiscipline shall be recorded in the student record.

3   On College Uniform

1.1   When to be in uniform

All students are expected to be in clean, well laundered and ironed, and respectable uniform in the college campus on all working days except those days on which the students are exempted from wearing the uniform. All students are exempted from wearing the uniform on all Fridays. However the following code will also be applicable:

1. All students are expected to be in uniform on formal occasions/functions like placement activities, seminars, workshops, convocations, internal and university examinations, etc. even if these occasions happen to fall on Fridays.

2. All students coming to the College on Saturdays or Sundays for special classes or for any other purpose are expected to come to the College in College uniform.

3. All students coming to the College during vacation (Onam, Christmas, summer) for special classes or for any other purpose are expected to come in College uniform.

4. The dress code is applicable to all students till they receive their transfer certificates.

5. The Principal is the sole authority to exempt a student, or a group of students, from wearing the uniform.

6. The students can come to the college without Uniform only on notified days/occasions. On those occasions they should wear formal dress (T-shirts, Midi-Top etc. are banned).

Students should obtain the dress materials for the uniform from the college cooperative store.

1.2   On General Appearance

To the exent possible, the following guidelines apply.

1. Boys should not wear caps, ear rings, metal chains, wrist band and other such accessories.

2. Boys are not permitted to grow a beard/side burns, etc.

3. Hair styles for boys are to be neat and tidy. Weird hair styles and long hair below shirt collar are not acceptable for boys.

4. Tight fitting pants/jeans are prohibited and boys should not wear their pants below the waist level.

5. Chudi bottom/tight bottom is not acceptable in the case of girls.

6. Girls wearing head scarf are expected to wear black coloured scarfs.

7. Hair styles of girls are to be neat, tidy and well groomed.

8. Body piercing or tattoos are not acceptable from students.

9. All students should properly display their identity cards on the chest.

1.3   Pattern of uniform

1. **Boys (MTech, MCA and BTech)**

   (a) Formal half sleeve shirt and pants. Shirt must be tucked in.
   (b) Black belt with conventional box frame for buckles. The end of the belt should not be allowed to hang down from the belt loops.
   (c) Boys should not wear their pants below the waist level.

2. **Girls (MCA, BTech)**

   (a) Formal half sleeve shirt with sleeveless overcoat and pants.
   (b) Sleeves of the shirt should not be short. It should be up to 4 inches above the elbow.
   (c) The coat length is mid-thigh length.

3. **Girls (MTech)**

   (a) SalwarKameezDupatta: Half sleeves kameez (top) and loose salwar (bottom) with dupatta pinned to the sides.
   (b) Below knee length kameez with slits on sides start from mid-thigh, not from hip level.
   (c) Sleeves should not be too short, it should be up to 4 inches above the elbow.
   (d) Tight bottom/chudi bottom is not acceptable.

4   On Identity Card

1. Every student should wear and display his/her identity card and produce it on demand by the authorities i.e. by any member of the staff or other authorized persons.

2. If the identity card is lost, fresh identity card will be issued after collecting a fine.

3. Students should surrender the identity card when they leave the college after completion of their course.

4. Teachers will not allow the students to enter the class room and the laboratories/workshops, if they are not in uniform and/or they do not have their identity cards displayed.

5   On Use of Mobile Phones

1. Usage of mobile phones is completely prohibited in the academic blocks. If a student is found using a mobile phone in the academic blocks of the College, the mobile phone will be confiscated from the student then and there. Every staff member - teaching, non-teaching or administrative, all - will have the authority to confiscate mobile phone if found being used by a student.

2. A confiscated phone will be immediately handed over to the Principal with a signed note containing the details of the student from whom the phone was confiscated.

3. A confiscated phone shall be returned to a student only if he/she donates books worth Rs.1500/- (Rupees one thousand and five hundred only) to the Department Library of the Department of which he/she is a student. The books to be donated shall be identified by the Head of the respective Department.

4. A confiscated phone shall be returned only when the student submits to the Principal a certificate from the Head of Department to the effect that the student has contributed books worth Rs.1500/- to the Department Library.

5. If a phone is confiscated from a student, the fact will be immediately reported to the Head of the Department to which the student belongs and also to the Tutor of the student.

6. The Tutor will immediately inform the parents of the student over phone about the confiscation of the phone.

7. Every student is expected to take back the confiscated mobile phones within 15 days of confiscation.

8. If a student fails to take back the mobile phone within 15 days, he/she will have to contribute books worth Rs.2000/- for taking back the phone.

9. No student will be allowed to register for a higher semester class, or will be issued end-course certificates like TC, course certificate, etc., without taking back the mobile phones, if any, confiscated from him/her.

10. As per the relevant Government and Court Orders, use of mobile phones in the campus is strictly prohibited. Any misuse of mobile phone anywhere in the campus will invite appropriate penal action.

6 On Use of Vehicles in Campus

1. 2/4 wheeler of the student may be allowed with proper application request for parking the vehicle inside the campus.

2. Along with the application copy Driving License, RC, Insurance etc

3. Parking pass sticker issued should be pasted on the vehicle.

4. Two wheeler of the student can be only allowed if he / she wears helmet before entering the campus.

5. The speed limit inside the campus should not cross 10kmph.

6. Once the vehicle is parked in the parking area assigned he/she can't move the vehicle during the class hour.

7. Student should not create sound pollution by raising their vehicle inside the campus.

8. Only the registered vehicle will be allowed inside the campus, an student can't register two vehicle and obtain the parking pass.

9. The registered vehicle pass owner should not handover his vehicle to his friends.

10. Every year this process of obtaining vehicle pass should be repeated.

11. Students should park their 2/4 wheeler in the prescribed parking area.

12. Random checking of 4 wheeler will be done by the college authorities.

13. College will not be responsible for any damage/loss of the vehicle parked.

14. Only after getting the vehicle parking pass students can park the vehicle inside the campus.

15. Even hostel inmates should register for parking vehicle

16. Any violation of the said norms His/Her Vehicle pass issued will be permanently debarred from bringing a vehicle to the campus during the rest of his / her studies in the college.

7   On Acts of Indiscipline

The Institute attaches great importance to integrity, honesty and discipline in all spheres of activity by the students. A sense of responsibility and a high degree of maturity is expected from all the students inside and outside the campus befitting the conduct of professionals. All students are to maintain good conduct and behavior during their stay in the Institute.

Following activities of the students shall be deemed as act of indiscipline:

1. Physical assault or threat to use physical force, against any member of the teaching or non-teaching staff or other students of the Institute.

2. Remaining absent or influencing others to remain absent in the class, test, examination or any other curricular/co-curricular /extra-curricular activity, which he/she is expected to participate in.

3. Carrying of, use of or threat to use, any weapon.

4. Misbehavior or cruelty towards any other student, teacher or any other employee of the Institution.

5. Use of drugs or other intoxicants such as cigarettes and any other form of tobacco, Gutkha, Tamol, alcohol etc.

6. Indulging and participating in Ragging

7. Indulging in or encouraging violence or any conduct, which involves moral turpitude.

8. Any form of gambling inside and outside campus

9. Violation of the status, dignity and honour of a student belonging to a Physically Disabled or Tribal communities

10. Discrimination against any student/member of staff on grounds of caste, creed,language, place of origin, social and cultural background or any of them.

11. Practicing casteism and untouchability in any form or inciting any other person to do so.

12. Any act, whether verbal or otherwise, derogatory to women.

13. Drinking or smoking in the campus.

14. Any attempt at bribing or corruption of any manner.

15. Willful destruction of the property of the institute.

16. Behaving in a rowdy, intemperate or disorderly manner in the premises of the institute or encouraging or inciting any other person to do so.

17. Creating discord, ill will or intolerance among the students on sectarian or communal grounds or inciting any other student to do so.

18. Causing disruption in any manner of the academic or other functioning of the Institutional system.

19. Indulging in or encouraging any form of disruptive activities connected with tests, examinations or any other activity of the institute.

20. Truancy and unpunctuality.

21. Using unfair means in the examination.

22. Using mobile phones inside classrooms and laboratories.

23. Capturing photographs inside classrooms and laboratories.

24. Spitting on walls.

25. Any other form of indiscipline that shall be taken up by the "Disciplinary Committee" either sue-motto or under specific complaint.

6
Hostel Rules and Regulations

1 Hostel Management

1. The following officers constitute the hostel management:

   (a) The Principal Chief Warden

   (b) The warden

   (c) Resident Tutors

   (d) Sergeant/Matron

2. Each hostel is managed by a Sergeant/matron who is resident in the hostel. The resident tutors will supervise the academic activities of the inmates.

3. The students can approach any of the aforesaid officers for help, guidance and grievance redressal.

2 Accommodation

Hostel accommodation is available to students, only during working semesters. No student will have a right to occupy a room during vacation. But he/she may be permitted to stay on request, if he/she has to be present in the campus for academic purposes.

Guest accommodation will be given to students for short periods depending upon the availability of rooms and the genuineness of the purpose of stay.

3 Condition for Allotment of Accommodation

1. At the time of admission to the hostel, each student is required to submit a duly filled application form. The parent/guardian of the student should apply in person at the time of admission for the first time.

2. The hostel management will generally provide minimum furniture and fittings for each room consisting one each of cot, chair, table, ceiling fan with regulator and a tube light fitting.

3. Rooms once allotted to the students for an academic year will not be changed except on special situations.

4. The hostel management, in case of sheer necessity, can allot more persons in a room.

5. If the status of any student changes during the period of stay in the hostel, he/she is required to inform the Sergeant/matron and should vacate the hostel if the hostel management finds that he/she is not eligible for hostel accommodation.

6. The students are entitled for accommodation in the hostel as long as they are full time registered students. Accommodation will not be provided to any student whose registration is cancelled. Any student who is removed from the rolls of the institution will automatically cease to be a member of the hostel.

7. Before vacating the room, the students should handover the electrical fittings and furniture in good shape. No student can vacate the hostel before the completion of a course unless the parent/guardian requests in person to this effect.

4   Code of Conduct

1. All residents are required to maintain standards of behavior expected of students of a prestigious institution such as ours. They are expected to behave courteously and fairly with everyone both inside and outside the campus.

2. All residents are required to carry their valid identity cards issued to them by the institution

3. All rooms, common area and surroundings should be kept clean and hygienic. Notices shall not be pasted on the walls nor the walls be scribbled on.

4. Residents are expected to be in the hostel before 9.00 PM (for gents hostel) and before 6.00 PM (for ladies hostel). Any resident who wishes to go home during the weekend, holidays or other days, he/she has to take prior permission from the warden. Parents of girls students should intimate the matron as soon as the girl reaches home. As a general rule,such permission will not be granted more than twice a month.

5. Rooms are allotted to each resident on his/her personal responsibility. They shall bring to the notice of the Sergeant/matron all routine maintenance work to be carried out in their rooms. The Sergeant/matron will bring it to the notice of the department concerned.

6. The residents should not screen pirated/unauthorized/unlicensed movies in their computer/common rooms. Any violation to this will be dealt with severely.

7. The residents of a room are responsible for any damage to the property in the room during their stay and will be required to make good the damage, if any.

8. The resident shall not remove any fittings from any other room and get them fitted in their room.

9. Ragging of students admitted to the institution/hostel is totally banned. Any violation of this will be dealt with very severely.

10. Ragging which is a criminal and non-bailable offence is legally defined as follows: "Display of noisy, disorderly conduct, doing any act which causes or is likely to cause physical or psychological harm or raise apprehension or fear, shame or embarrassment to a student in any academic institution and includes teasing, abusing, playing practical jokes on or causing hurt to such student, or asking the student to do any act or perform something which such student will not in the ordinary course be willing to do." Some of the directives of the hon'ble supreme court of India in respect of ragging in educational institutions:

    (a) Head of the institution (Vice chancellor/Director/Principal, etc) should take immediate action on receipt of the recommendation of the disciplinary committee. He can also take action suo motto if the circumstances so demand.

    (b) Freshers should be encouraged to report incidents of ragging. Those who do not do so, even being victims/witness should also be punished suitably.

    (c) When the person committing or abetting the crime of ragging are not identified, collective punishment could be resorted as a possible deterrent measure as it would ensure community pressure on the potential not to indulge in ragging.

11. Smoking and consumption of alcoholic drinks, narcotics etc are strictly prohibited

12. Employing unauthorized persons for personal work such as washing clothes etc is not permitted.

13. Residents who are desirous of going for special coaching, part time courses etc on holidays shall get prior sanction from the principal, for which the parents should personally make the request.

5   Visitors

1. All visitors to the hostel including parents/guardian will have to make necessary entries in the visitors book with the security guard.

2. Visit of men students to the women's hostel and vice versa is not allowed.

6   Use of Appliances

1. The use of electrical appliances such as heaters, electrical stoves/heaters/electric iron are forbidden in any of the room allotted. For ironing, the residents may make use of the common ironing table.

2. The use of audio system which may cause inconvenience to other occupants are not allowed. The use of personal TV, VCR, and VCD/DVD etc are prohibited.

3. When the students go out of their room, they should switch off all the electrical/electronic appliances and keep it locked. Violation to this will attract suitable penalty and punishment as decided by the authorities.

4. Use of laptops/computer is permitted in the hostel with prior permission from principal.

7   Collective Responsibilities

1. General damage to the hostel property will be the collective responsibility of all the residents and they will be required to make good such damages, if the students who caused the damage could not be identified.

2. Residents should not indulge in practices/activities which may endanger their own personal safety as well as others.

3. Residents are duly bound to report to the Sergeant/matron / warden in case they notice any unwanted incident or undesirable activity going on in the hostel or in the campus

4. Residents should not arrange any function or meeting with in the hostel or outside or within the campus without specific permission of the authorities concerned.

5. Residents should not arrange for any picnic etc without specific permission of the authorities

6. Residents are responsible for the safe keeping of their personal belongings. They are advised to keep under lock all valuable items such as laptop, mobile phones, etc and lock the room even when they are out for a short period.

7. Residents should be in their respective rooms latest by 9.00 PM and they should not enter any other room after that.

8. VAST will do its utmost to protect the interests of the residents as long as they are on the right side of the law. They are advised not to overstep their limits.

8 Mess Rules

1. No student is allowed to stay in the hostel without being a member of the mess

2. Absence from the mess will be permitted only by the principal on request for valid reasons, for a maximum period of 10 days only from the date of reopening of the college. Afterwards they will be charged as per rules. Such permission should be obtained and the hostel management intimated well in advance.

3. The system of self service will be followed in the mess

4. The quantity of food will be unlimited except in the case of special item.

5. Non vegetarian will be served as extra item on specified days of the week.

6. Mess timings are as follows:

   Breakfast   : 7.00 AM to 9.00 AM
   Lunch   : 12.00 Noon to 2.00 PM
   Snacks   : 4.30 PM to 5.30 PM
   Dinner   : 7.00 PM to 9.00 PM

7. The mess rates will be calculated on a fixed daily rate basis.

8. Residents will be entitled for mess reduction only if the number of days absent for the mess is 4 days or more and the absence is with prior permission.

9. Mess reduction is admissible to the residents of the hostels on the following grounds:

   (a) Approved study holidays and semester vacation declared by the principal

   (b) Such period as recommended by the head of the department and availed by the students for purposes of participation in sports, competitions, seminars, educational tours, etc.

   (c) Periods availed by students for attending interviews and trainings on the recommendation of the Training and placement cell.

   (d) Period of absence due to serious illness requiring hospitalization, subject to the production of the medical certificates, in genuine cases.

   (e) No student can claim mess reduction unless he /she has inti mated his/her absence in advance by applying for mess reduction.

10. Students are not permitted to enter the kitchen and store room unless other wise entrusted by the authorities

11. All diners shall interact with the mess staff in the dining hall in a courteous manner

Any breech of these rules will invite an enquiry that will be conducted by the hostel management. If the student is found guilty, the hostel management will take disciplinary action that it deems fit.

The hostel management reserves its right to amend, add or delete any of these rules from time to time keeping the students informed through general circulars displayed on the hostel notice board.

7
Library

The college library consists of a Central Library and Departmental Libraries attached to various academic departments of the college. The Central Library is housed in an area of 1764m^2. There is also a digital library and a computer centre attached to the Central Library.

The library has a collection of over 28,101 volumes with 9550 different titles in various branches of engineering, technology and sciences. There is also a good collection of books in social sciences and literature. The library subscribes to about 75 national and international journals. The library also provides on-line access to 232 e-journals (IEEE, ASCE and ASME). The digital library is a repository of faculty publications, conference proceedings, lecture notes and university examinations question papers.

The library functions from 8.30 am to 7.00 pm on all working days.

1 General Rules

1. Students are advised to preserve the books properly and refrain from marking or spoiling them.

2. Any misbehaviour or non - return of books on time will lead to cancellation of library membership.

3. Reference books and current journals shall not be issued to anybody.

4. Photo copy facility is available in the library at a nominal charge.

5. Books will be issued only on production of the valid user I.D card.

6. Books borrowed must be returned on or before the due date.

7. Books will have to be physically presented for renewals.

8. Books will be renewed if there are no reservations

9. Reservation of books shall be done through web catalogue available in the campus.

10. Issued books can be renewed for 10 days provided its due date is not exceeded.

11. If the issued item is overdue it can not be further renewed and has to be returned to the library. Also the same shall not be reissued immediately.

12. Users must verify the physical conditions of the book before borrowing.

13. Users have to deposit their bags or belongings on the Personal Belonging Shelves.

14. Users must observe silence inside the library.

15. Users are required to switch off the lights and fans when not required or leaving the reading hall.

16. Misuse of library facility is an offense and calls for punishment as decided by the competent authority.

17. Users are required to keep the library neat and tidy.

2 Borrowing Privileges and Rules

1. A student can borrow a maximum of 6 books at a time from the Central Library. He/She can retain a borrowed book for a maximum period of 14 days from the date of issue without paying late fee.

2. A borrowed book should be returned on or before the 14th day after the issue. However a student can avail the facility of renewal. The book should be renewed before the due date itself.

3. After a renewal, a student can retain the book without late fee foe a further period of 10 days.

4. If a book is not renewed on the due date the student will have to pay the late fee as specified below.

5. Books shall be renewed provided the same book is not reserved by others. Reservation of books shall be done through web catalogue available in the campus.

3 Late Fee

Sl. No	Applicable period	Late fee payable at the rate of
1	1 to 14 days	Nil
2	15th to 21st day (inclusive)	Rs.1 per day per book
3	22nd to 28th day (inclusive)	Rs.3 per day per book
4	29th day onwards (inclusive)	Rs.5 per day per book

8
General Amenities

1 Internet Service

1. Internet facility is open to all students of this institution.

2. Students are advised to make use of this facility only to support their academic activities.

3. Students should enter their name and details in the register before browsing the internet. The maximum time for browsing is restricted to one hour.

4. Any kind of misuse of the Computer systems should be brought to the notice of the librarian.

5. The Principal reserves the right to stop extending the facility to a person found misusing, besides initiating action as per the library rules.

2 IT Infrastructure Management Services (ITIMS)

The ITIMS cell is functioning under the Department of Computer Science & Engineering of the College and is responsible for the support and maintenance of all IT related infrastructure in the College. ITIMS is responsible for identifying, providing and maintaining reliable computing facilities, computing network environment, communication facilities and related infrastructure to facilitate education, research and instructional services. The facilities are made available to the staff and students on all working days.

3 Language Lab

The language laboratory is an audio/audio-visual installation used as an aid in modern language teaching and learning. The Language Lab of the College has facilities for training 60 students simultaneously.

4 Counseling Centre

There is a fully functional Counseling Centre in the College to guide and assist students, parents and others who face stressful situations in life and studies. The Centre is managed by a trained professional counselor.

5　Central Computing Facility

The Central Computing Facility, currently functioning in the Decennial Block of the College, is available for students to address their computing needs even beyond the regular class hours. The facility is widely used by the students for accessing the services provided through the Internet.

6　Transportation

The college offers transportation facility for both students and staff. Presently we have buses operating on various routes. The operation of the college buses is managed by a staff committee.

7　Sports and Games

Under the Department of Physical Education there are facilities for games such as basket ball, cricket, football, volley ball, handball and in-door games like table tennis, badminton, chess and caroms. A gymnasiums with sophisticated fitness equipment is available for student for improving their physical fitness.

8　Canteen and Cafeteria

A full-fledged canteen is functioning within the campus for the convenience of staff and students. A cafeteria is also working in the campus.

9　Co-operative Store

The college has a co-operative store that provides textbooks, engineering drawing equipments and other stationery to students and staff at concessional rates.

10　Banking facilities

A branch of Indian Overseas Bank is functioning within the campus. Besides staff and students, the public can also enjoy the facility.

11　Auditorium

College has a fully air-conditional multipurpose auditorium.

9
Official Bodies in College

This section is a compilation of the details of the various official bodies functioning in the College. Some of these bodies are the College-level units of organisations operating at the national and international levels. Some of them have been formed as per the various statutes and regulations governing the working of the College. A few of them are local initiatives to provide space and context for furthering the vision and mission of the College. All these bodies are working under the guidance and control of faculty/staff members duly appointed by the Principal and assisted by duly constituted committees. Only those activities which are organised by duly constituted official bodies of the College and have been approved by the Principal will be permitted to be conducted in the College.

1 Administration Related

1.1 College Council

The college council consists of the principal, the heads of all departments, workshop superintendent, hostel warden and lecturer in physical education. The Principal is the ex-officio president of the council. The general administration of the college is carried out by the principal subject to the control of the Dean in academic matters and Academic Director in administrative issues . The council is invested with powers to take decisions on all academic, disciplinary and other matters pertaining to the smooth functioning of the institution. The decision of the council in this matter shall be final and binding.

1.2 Academic Council

The academic activities of the college is planned by this committee for which, principal is the chairman and all heads of the departments and senior administrative staff are members. The committee meets once in every three months to discuss the academic performance and to take decisions on critical academic matters like teaching, research and development programme.

1.3 Library Council

The council formulates the procedures for effective functioning of the library and also reviews periodically implementation of the same.It coordinates procurements and utilization of department and central library facilities.

1.4 Hostel Committee

The Hostel Committee of the College oversees and reviews periodically the function of the College Hostels.

1.5 Bus and Transportation Committee

The Transportation Committee is assists the management in the effective operation of the College buses.

2 Discipline Related

2.1 Disciplinary Action Committee(DAC)

The DAC shall be headed by a department head and shall have three other faculty members drawn from different departments as members.Any act of indiscipline, misbehaviour and unfair practice in examinations will be referred to the DAC.

2.2 Student's Grievance Redressal Committee

This Committee constituted by the Principal addresses the grievances of the students and to consider their appeals on any decisions made by the college. This committee consisting of at least three faculty members and chaired by a senior professor shall look into students grievances and appeals and give its recommendations to the Principal for action.

2.3 Anti-ragging Squad & Anti-ragging Committee

Head of Institution shall take necessary steps to constitute anti-ragging committee and squad at the commencement of each academic year. The committee and the squad shall take effective steps as specified by the Honorable Supreme Court of India, to prevent ragging.

3 Services & Support Related

3.1 Group Advisory System

A group advisory system has been implemented very effectively in order to help the students. Each student is attached to a faculty adviser who will be responsible for the welfare of those under him/her. The faculty adviser keeps records of all academic and extra-curricular activities besides personal information of the students under him/her.

3.2 Vidya Student Support Cell (VSSC)

Vidya Student Support Cell aims at moulding Engineering professionals of international standards. VSSC was conceived as a tool for grooming a true professional and a perfect individual by providing opportunities for acquiring knowledge, developing skills and imbibing the right attitude. Empowerment of faculty by strengthening the tutorial system is achieved through VSSC.

3.3 Student's Welfare Committee

This committee shall have at least three faculty members as members and the chairman shall be a senior faculty member in the rank of a Professor. This committee is entrusted with the task of looking after the welfare of the students by taking appropriate steps with the concurrence of the principal.

3.4 Community Service Cell

The goal of the Community Service Cell is to provide opportunities for the students and staff of the College to participate in community service activities, sharing their skills with the community while gaining valuable experiences. The Cell works closely with the NSS units working in the College.

3.5 Women's Forum

A voluntary core committee of Women's Cell is functioning in our College. It is aimed at giving confidence to the first year girl students .The senior girls help them out when pestered by any senior. This emboldens the girls to report any misbehavior towards them in the college campus. They are further helped to find a solution to their problems and counselling is provided if necessary.

3.6 Right to Information (RTI) Cell

The college has an RTI cell constituted as per Right to Information Act 2005.

4 Placement & Industry Related

4.1 Career Guidance & Placement Unit

Vidya has a full-fledged placement cell functioning under the leadership of Mr. Chakola Paul Johny as the Director of Training & Placement Cell. The cell has faculty representatives from each department. Students are also involved in the activities.

Personality development programmes are conducted regularly for the fifth semester and sixth semester students. There is a special programme for the first year students to improve their communication skills. In addition to these, lectures by eminent personalities from industry and academic institutions are arranged regularly.

Several of our pre-final year students have already been placed in multi- national companies such as INFOSYS, IBS, WIPRO and U.S technologies. Tata Consultancy Service (TCS) has accredited this institution for campus recruitment. Infosys is associated with Vidya through the campus connect programme.

4.2 Industry Institute Interaction Cell

The Industry-Institute Interaction Cell of the College is intended to facilitate the process of close industry-institute interaction and for actively promoting fresh avenues for the same. The cell strives to enhance industry interaction with students and bridge the gap between academia and corporate world.

5 Student Activities Related

5.1 College Student Senate

The college student senate consists of the elected class representatives from among the students. This body addresses the needs of students, both cultural and academic. The following office bearers are elected from the class representatives:

(a) Chairman

(b) ViceChairperson

(c) General Secretary

(d) Joint Secretary

(e) University Union Councilors

(f) Fine Arts Secretary

(g) Magazine editor

(h) General Captain

5.2 Departmental Associations

In each of the six engineering departments and also in the Department of Computer Applications, there is a separate Departmental Association. The activities of the Association are managed by a committee with the following structure:

(a) President (Head of Department (Ex-officio))

(b) Faculty Adviser (nominated by Head of Department)

(c) Secretary (Student representative)

(d) Joint Secretary (Student representative)

(e) At least one representative from each BTech/MTech/MCA batch whichever is applicable.

The Associations regularly organise activities to augment the efforts of the College in realising its vision.

5.3 Music Club

The Music club fosters the needs of the musical talents in the college. The club has an array of its own musical instrument.

5.4 Literary and Debating Club

A literary and debating club caters to developing the communicative skills of the students and enables them to partake debates and literary seminars and symposia. Both the intellectual and emotional urge of the technical minds are alerted here.

5.5 Energy Conservation Cell

The college has an energy and environmental conservation cell with the following aims:

(a) Making the staff and students aware of the need for energy conservation at our college, home and wherever they go.

(b) Imparting technical knowledge to the neighborhood in this direction.

(c) Collaborating with similar organizations like ANERT, ECS etc. in projects.

(d) Conducting small research projects for saving energy, reducing the impact on the environment etc.

(e) Imparting energy cum environment conscious image to the college.

5.6 ECO Club

The Eco Club of the College plays an important role in creating environmental awareness amongst students of the College. The activities of the Eco Club include

(a) Motivate the students to keep their surroundings green and clean by undertaking plantation of trees.

(b) Promote ethos of conservation of water by minimizing the use of water.

(c) Motivate students to imbibe habits and life style for minimum waste generation.

(d) Sensitize the students to minimize the use of plastic bags.

5.7 Alumni Association

Alumni Association has been formed in the college and has been registered under Travancore-Cochin Literary, Scientific & Charitable Societies Act.

5.8 Entrepreneurship Development Club (EDC)

An Entrepreneurship Development club is functioning in this institute to inculcate the culture of entrepreneurship among the students and to equip them with the skills, techniques and confidence to act as torch bearers of "Enterprise" for the new generation. The club has more than 275 student members. One of the main objectives of the club is to change the negative mindset prevailing in the state against taking up entrepreneurship as a career. All the activities of the club are coordinated by a faculty member and assisted by two elected student office bearers.

6 Staff Related

6.1 Staff Welfare Committee

The Staff Welfare Committee aims to initiate and act upon several measures for the benefit of the staff. The main priority shall be to create a bond of solidarity and a spirit of satisfaction amongst the staff members, which in turn enhances the quality of teaching imparted at the Institute. The Committee works in close association of the College.

6.2 Staff Club

A staff club is functioning in the college to channelize the cultural and creative activities of the teaching and non - teaching staff. It provides a platform for the staff members to interact among themselves and co -ordinate various academic and non academic activities. It helps all the staff members of the institution to act as members of the same family.

7 NSS Cell

Two units of NSS cell are working in our college. The NSS unit provides opportunities to the staff and students to gain practical experience through community services. This unit also helps them to enhance their leadership and organizing skills. The students who get 240 hours experience including one special camp programme will be eligible for NSS certificate and grace marks.

8 Research & Consultancy Cell

As an important step for achieving excellence in Engineering education, Vidya Academy of Science and Technology (VAST) has established a Research Development and Consultancy Cell in the college. Consultancy work is being taken up utilizing the idle capacity of laboratories and other infrastructure. Extension work will be taken up in a big way to fulfill the social commitment of the institution.

Students trained in VAST, through their active participation in research and consultancy will be exposed to field problems so that they will be more confident to take up challenging jobs in their career. Involvement in the developmental activities of the country will enable VAST to fulfill its social obligations. The transformation of VAST into a full-fledged Deemed Technological University would be made easier by the successful activities of the Research, Development and Consultancy Cell.

9 Parent-Teacher Association

A Parent Teacher Association is actively functioning in the college. The parents or Guardians of all students of the college are, compulsorily, members of the PTA. The association provides moral and financial assistance for organizing various activities in the college. It also extends sincere efforts to improve the college facilities. The office bearers of the PTA are as follows:

1. President (Parent)

2. Vice Presidents (One Parent and One Teacher)

3. Secretary (Teacher)

4. Joint Secretaries (One Parent and One Teacher)

5. Treasurer (Teacher)

6. Executive members (Two Parents and Two Teachers)

The college principal will be the patron of the association.

10   Continuing Education Cell

The Continuing Education Cell is constituted to coordinates the continuing education programmes of the College. The planned activities include programmes aimed at industry as well as short-term courses under ISTE and other professional bodies, meant for faculty in engineering institutions. The Cell is headed by a senior faculty member and has representatives form various academic Departments of the College as members

11   Sports Committee

The Sports committee is headed by the Head of the Department of Physical Education. The Committee provides whatever support is required in organising various athletic and sports events in the College.

12   Professional Bodies

12.1 ISTE (Student Chapter)

The Indian Society for Technical Education (ISTE) is a premier national society for teachers and students of the national technical education system. It has 775 ISTE chapters, 735 student chapters and 1370 institutional members. It is an organization which has a meaningful interaction among technical institutions all over the country. Being the only national organization of educators in the field, ISTE effectively undertakes various missions under the union government. It assists in and contributes to the production and development of quality professional engineers and technicians. It provides adequate inputs to various governmental bodies and prepares policy frameworks for technical education. Our college is an institutional member of ISTE. We have both a staff chapter and student chapter in our college.

12.2 Computer Society of India (CSI)

Keeping in mind the interest of the IT professionals and computer users, CSI works towards, making the profession an area of choice amongst all sections of the society. The promotion of Information Technology as a profession is the top priority of CSI today. To fulfill this objective, the CSI regularly organizes conferences, conventions, lectures and gives various awards. And at the same time it also ensures that regular training and skill updating are organised for the IT professionals.

12.3 Institute of Electrical and Electronics Engineers (IEEE)

A student branch of the prestigious international organization IEEE is functioning in our college. The members are committed towards improving the

quality of life throughout the world through technology; accepting a personal obligation to the engineering profession and the communities they serve. The members can cultivate highest ethical and professional conduct and global prosperity by promoting the engineering process of creating, developing, investigating, sharing and applying knowledge about electrical and information technologies and sciences for the benefit of humanity and the profession.

12.4 The Institution of Engineers (India) (IE(I))

The Institution of Engineers (India), started in 1920 and incorporated under Royal Charter in 1935 has accepted Vidya as an Institutional Member. Steps are being taken to start students' Chapters under IE (I).

13   Ethics Committee

The Ethics Committee of the College is entrusted with the task of formulating policies and procedures to ensure that the College is following internationally accepted ethical practices in all its operations. The Committee is headed by a senior faculty member and assisted by a team with members drawn from the various academic departments.

10
Curiculum for BTech Programmes

This section contains the curricula of all the eight semesters of the various BTech programmes offered in Vidya Academy of Science & Technology. The curricula given here are applicable only to the BTech programmes affiliated to APJAKTU.

Vidya offers BTech programmes in Civil Engineering, Computer Science & Engineering, Electronics & Communications Engineering, Electrical % Electronics Engineering, Mechanical Engineering and Production Engineering.

1   Civil Engineering

Semester 1

Sl. No.	Course Code	Subject	L	T	P	Cr
1	MA101	Calculus	3	1	0	4
2	PH100	Engineering Physics	3	1	0	4
3	BE100	Engineering Mechanics	3	1	0	4
4	BE101 01	Introduction to Civil Engineering	2	1	0	3
5	BE103	Introduction to Sustainable Engineering	2	0	1	3
6	ME100	Basics of Mechanical Engineering	2	1	0	3
7	PH110	Engineering Physics LAB	0	0	2	1
8	CE110	Civil Engineering Workshop	0	0	2	1
9	ME110	Mechanical Engineering Workshop	0	0	2	1

Semester 2

Sl. No.	Course Code	Subject	L	T	P	Cr
1	MA102	Differential Equations	3	1	0	4
2	CY100	Engineering Chemistry	3	1	0	4
3	BE110	Engineering Graphics	1	1	2	3
4	BE102	Design and Engineering	2	0	2	3
5	EE100	Basics of Electrical Engineering	2	1	0	3
6	EC100	Basics of Electronics Engineering	2	1	0	3
7	CY110	Engineering Chemistry LAB	0	0	2	1
8	EE110	Electrical Engineering Workshop	0	0	2	1
9	EC110	Electronics Engineering Workshop	0	0	2	1

Semester 3

Course No.	Subject	Hr/Wk L	Hr/Wk T	Hr/Wk P	Cr	ES
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	Business Economics	3	0	0	3	F
/HS210	/Life Skills	2	0	2		
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 4

Course No.	Subject	Hr/Wk L	Hr/Wk T	Hr/Wk P	Cr	ES
MA202	Probability Distributions, Transforms and Numerical Methods	3	1	0	4	A
CE202	Structural Analysis I	3	1	0	4	B
CE204	Construction Technology	4	0	0	4	C
CE206	Fluid Mechanics II	3	0	0	3	D
CE208	Geotechnical Engineering I	3	0	0	3	E
HS210/	Life Skills/	2	0	2/	3	F
HS200	Business Economics	3	0	0		
CE232	Materials Testing Lab I	0	0	3	1	S
CE234	Fluid Mechanics Lab	0	0	3	1	T

(Total Credits = 23, Hours 28/27. Cumulative Credits = 94.)

Semester 5

Course No.	Subject	Hr/Wk L	Hr/Wk T	Hr/Wk P	Cr	ES
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.)

Elective 1
1. CE361 Advanced Concrete Technology
2. CE363 Geotechnical Investigation
3. CE365 Functional Design of Buildings
4. CE367 Water Conveyance Systems

5. CE369 Disaster Management
6. CE371 Environment and Pollution
7. CE373 Advanced Mechanics of Materials

Semester 6

Course No.	Subject	L	T	P	Cr	ES
CE302	Design of Hydraulic Structures	4	0	0	4	A
CE304	Design of Concrete Structures II	3	0	0	3	B
CE306	Computer Programming and Computational Techniques	3	0	0	3	C
CE308	Transportation Engineering I	3	0	0	3	D
HS300	Principles of Management	3	0	0	3	E
	Elective 2	3	0	0	3	F
CE332	Transportation Engineering Lab	0	0	3	1	S
CE334	Computer Aided Civil Engineering Lab	0	0	3	1	T
CE352	Comprehensive Exam	0	1	1	2	U

(Total Credits = 23. Hours 27. Cumulative Credits = 140.)

Elective 2
1. CE362 Ground Improvement Techniques
2. CE364 Advanced Foundation Engineering
3. CE366 Traffic Engineering and Management
4. CE368 Prestressed Concrete
5. CE372 Engineering Hydrology
6. CE374 Air Quality Management

Semester 7

Course No.	Subject	L	T	P	Cr	ES
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.)

Elective 3
1. CE461 Water Hydrodynamics and Coastal Engineering
2. CE463 Bridge Engineering
3. CE465 Geo-Environmental Engineering
4. CE467 Highway Pavement Design
5. CE469 Environmental Impact Assessment
6. CE471 Advanced Structural Design
7. CE473 Advanced Computational Techniques and Optimization

Semester 8

Course No.	Subject	L	T	P	Cr	ES
CE402	Environmental Engineering II	3	0	0	3	A
CE404	Civil Engineering Project Management	3	0	0	3	B
	Elective 4	3	0	0	3	C
	Elective 5 (Non Departmental)	3	0	0	3	D
CE492	Project				6	

(Total Credits = 18. Hours 30. Cumulative Credits = 180.)

Elective 4

1. CE462 Town and Country Planning
2. CE464 Reinforced Soil Structures and Geosynthetics
3. CE466 Finite Element Methods
4. CE468 Structural Dynamics and Earthquake Resistant Design
5. CE472 Transportation Planning
6. CE474 Municipal Solid Waste Management

2   Computer Science & Engineering

Semester 1

Sl. No.	Course Code	Subject	L	T	P	Cr
1	MA101	Calculus	3	1	0	4
2	PH100	Engineering Physics	3	1	0	4
3	BE100	Engineering Mechanics	3	1	0	4
4	BE101 05	Introduction to Computing and Problem Solving	2	1	0	3
5	BE103	Introduction to Sustainable Engineering	2	0	1	3
6	EE100	Basics of Electrical Engineering	2	1	0	3
7	PH110	Engineering Physics LAB	0	0	2	1
8	CS110	Computer Science Workshop	0	0	2	1
9	EE110	Electrical Engineering Workshop	0	0	2	1

Semester 2

Sl. No.	Course Code	Subject	L	T	P	Cr
1	MA102	Differential Equations	3	1	0	4
2	CY100	Engineering Chemistry	3	1	0	4
3	BE110	Engineering Graphics	1	1	2	3
4	BE102	Design and Engineering	2	0	2	3
5	CS100	Computer Programming	2	1	0	3
6	EC100	Basics of Electronics Engineering	2	1	0	3
7	CY110	Engineering Chemistry LAB	0	0	2	1
8	CS110	Computer Programming Lab	0	0	2	1
9	EC110	Electronics Engineering Workshop	0	0	2	1

Semester 3

Course No.	Subject	Hr/Wk			Cr	ES
		L	T	P		
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 and Circuits	3	0	0	3	E
HS210/	Life Skills/	2	0	2/	3	F
HS200	Business Economics	3	0	0		
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 4

Course No.	Subject	Hr/Wk			Cr	ES
		L	T	P		
MA202	Probability Distributions, Transforms and Numerical Methods	3	1	0	4	A
CS202	Computer Organization and Architecture	3	1	0	4	B
CS204	Operating Systems	3	1	0	4	C
CS206	Object Oriented Design and Programming	2	1	0	3	D
CS208	Principles of Database Design	2	1	0	3	E
HS200/	Business Economics/	3	0	0/	3	F
HS210	Life Skills	2	0	2		
CS232	Free and Open Source Software Lab	0	0	3	1	S
CS234	Digital Systems Lab	0	0	3	1	T

(Total Credits = 23. Hours = 28/27. Cumulative Credits = 94.)

Semester 5

Course No.	Subject	Hr/Wk			Cr	ES
		L	T	P		
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	0	0	3	1	U

(Total Credits = 23. Hours = 29. Cumulative Credits = 117.)

Elective 1

1. CS361 Soft Computing
2. CS363 Signals and Systems

3. CS365 Optimization Techniques
4. CS367 Logic for Computer Science
5. CS369 Digital System Testing & Testable Design

Semester 6

Course No.	Subject	Hr/Wk			Cr	ES
		L	T	P		
CS302	Design and Analysis of Algorithms	3	1	0	4	A
CS304	Compiler Design	3	0	0	3	B
CS306	Computer Networks	3	0	0	3	C
CS308	Software Engineering and Project Management	3	0	0	3	D
HS300	Principles of Management	3	0	0	3	E
	Elective 2	3	0	0	3	F
CS332	Microprocessor Lab	0	0	3	1	S
CS334	Network Programming Lab	0	0	3	1	T
CS352	Comprehensive Exam	0	1	1	2	U

(Total Credits = 23. Hours = 27. Cumulative Credits = 140.)

Elective 2

1. CS362 Computer Vision
2. CS364 Mobile Computing
3. CS366 Natural Language Processing
4. CS368 Web Technologies
5. CS372 High Performance Computing

Semester 7

Course No.	Subject	Hr/Wk			Cr	ES
		L	T	P		
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

1. CS461 Computational Geometry
2. CS463 Digital Image Processing
3. CS465 Bio-informatics
4. CS467 Machine Learning
5. CS469 Computational Complexity

Semester 8

Course No.	Subject	Hr/Wk			Cr	ES
		L	T	P		
CS402	Data Mining and Ware Housing	3	0	0	3	A
CS404	Embedded Systems	3	0	0	3	B
	Elective 4	3	0	0	3	C
	Elective 5 (Non Departmental)	3	0	0	3	D
CS492	Project				6	

(Total Credits = 18. Hours = 30. Cumulative Credits = 180.)

Elective 4

1. CS462 Fuzzy Set Theory and Applications
2. CS464 Artificial Intelligence
3. CS466 Data Science
4. CS468 Cloud Computing
5. CS472 Principles of Information Security

3 Electronics & Communications Engineering

Semester 1

Sl. No.	Course Code	Subject	Hr/Wk			Cr
			L	T	P	
1	MA101	Calculus	3	1	0	4
2	CY100	Engineering Chemistry	3	1	0	4
3	BE110	Engineering Graphics	1	1	2	3
4	BE101 04	Introduction to Electronics Engineering	2	1	0	3
5	BE103	Introduction to Sustainable Engineering	2	0	1	3
6	EE100	Basics of Electrical Engineering	2	1	0	3
7	CY110	Engineering Chemistry LAB	0	0	2	1
8	EC110	Electronics Engineering Workshop	0	0	2	1
9	EE110	Electrical Engineering Workshop	0	0	2	1

Semester 2

Sl. No.	Course Code	Subject	Hr/Wk			Cr
			L	T	P	
1	MA102	Differential Equations	3	1	0	4
2	PH100	Engineering Physics	3	1	0	4
3	BE100	Engineering Mechanics	3	1	0	4
4	BE102	Design and Engineering	2	0	2	3
5	CE100	Basics of Civil Engineering	2	1	0	3
6	ME100	Basics of Mechanical Engineering	2	1	0	3
7	PH110	Engineering Physics LAB	0	0	2	1
8	CE110	Civil Engineering Workshop	0	0	2	1
9	ME110	Mechanical Engineering Workshop	0	0	2	1

Semester 3

Course No.	Subject	Hr/Wk			Cr	ES
		L	T	P		
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/	Business Economics/	3	0	0/	3	F
HS210	Life Skills	2	0	2		
EC231	Electronic Devices & Circuits Lab	0	0	3	1	S
EC223	Electronic Design Automation Lab	0	0	3	1	T

(Total Credits = 24. Hours = 28/29. Cumulative Credits = 71.)

Semester 4

Course No.	Subject	Hr/Wk			Cr	ES
		L	T	P		
MA204	Probability, Random Processes and Numerical Methods	3	1	0	4	A
EC202	Signals & Systems	3	1	0	4	B
EC204	Analog Integrated Circuits	4	0	0	4	C
EC206	Computer Organization	3	0	0	3	D
EC208	Analog Communication Engineering	3	0	0	3	E
HS210/	Life Skills/	2	0	2/	3	F
HS200	Business Economics	3	0	0		
EC232	Analog Integrated Circuits Lab	0	0	3	1	S
EC230	Logic Circuit Design Lab	0	0	3	1	T

(Total Credits = 23. Hours = 27/28. Cumulative Credits = 94.)

Semester 5

Course No.	Subject	Hr/Wk			Cr	ES
		L	T	P		
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

(Total Credits = 23. Hours = 28. Cumulative Credits = 117.)

Elective 1
1. EC361 Digital System Design
2. EC363 Optimization Techniques
3. EC365 Biomedical Engineering
4. EC360 Soft Computing

Semester 6

Course No.	Subject	Hr/Wk L	T	P	Cr	ES
EC302	Digital Communication	4	0	0	4	A
EC304	VLSI	3	0	0	3	B
EC306	Antenna & Wave Propagation	3	0	0	3	C
EC308	Embedded Systems	3	0	0	3	D
EC312	Object Oriented Programming	3	0	0	3	E
	Elective 2	3	0	0	3	F
EC332	Communication Engg Lab (Analog & Digital)	0	0	3	1	S
EC334	Microcontroller Lab	0	0	3	1	T
EC352	Comprehensive Exam	0	1	1	2	U

(Total Credits = 23. Hours = 27. Cumulative Credits = 140.)

Elective 2

1. EC362 Modelling & Simulation of Communication Systems

2. EC364 Computer Vision

3. EC366 Real Time Operating Systems

4. EC368 Robotics

5. EC370 Digital Image Processing

Semester 7

Course No.	Subject	Hr/Wk L	T	P	Cr	ES
EC401	Information Theory & Coding	4	0	0	4	A
EC403	Microwave & Radar Engineering	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

1. EC461 Microwave Devices and Circuits

2. EC463 Speech and Audio Processing

3. EC465 MEMS

4. EC467 Pattern Recognition

5. EC469 Opto-electronic Devices

Semester 8

Course No.	Subject	L	T	P	Cr	ES
EC402	Nano-electronics	3	0	0	3	A
EC404	Advanced Communication Systems	3	0	0	3	B
	Elective 4	3	0	0	3	C
	Elective 5 (Non Departmental)	3	0	0	3	D
EC492	Project				6	

(Total Credits = 18. Hours = 30. Cumulative Credits = 180.)

Elective 4

1. EC462 Mixed Signal Circuit Design
2. EC464 Low Power VLSI Design
3. EC466 Cyber Security
4. EC468 Secure Communication
5. EC472 Integrated Optics & Photonic Systems

4 Electrical & Electronics Engineering

Semester 1

Sl. No.	Course Code	Subject	L	T	P	Cr
1	MA101	Calculus	3	1	0	4
2	CY100	Engineering Chemistry	3	1	0	4
3	BE110	Engineering Graphics	1	1	2	3
4	BE101 03	Introduction to Electrical Engineering	2	1	0	3
5	BE103	Introduction to Sustainable Engineering	2	0	1	3
6	EC100	Basics of Electronics Engineering	2	1	0	3
7	CY110	Engineering Chemistry LAB	0	0	2	1
8	EE110	Electrical Engineering Workshop	0	0	2	1
9	EC110	Electronics Engineering Workshop	0	0	2	1

Semester 2

Sl. No.	Course Code	Subject	L	T	P	Cr
1	MA102	Differential Equations	3	1	0	4
2	PH100	Engineering Physics	3	1	0	4
3	BE100	Engineering Mechanics	3	1	0	4
4	BE102	Design and Engineering	2	0	2	3
5	CE100	Basics of Civil Engineering	2	1	0	3
6	ME100	Basics of Mechanical Engineering	2	1	0	3
7	PH110	Engineering Physics LAB	0	0	2	1
8	CE110	Civil Engineering Workshop	0	0	2	1
9	ME110	Mechanical Engineering Workshop	0	0	2	1

Semester 3

Course No.	Subject	Hr/Wk			Cr	ES
		L	T	P		
MA201	Linear Algebra & Complex Analysis	3	1	0	4	A
EE201	Circuits and Networks	3	1	0	4	B
EE203	Analog 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/	Business Economics/	3	0	0/	3	F
HS210	Life Skills	2	0	2		
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 4

Course No.	Subject	Hr/Wk			Cr	ES
		L	T	P		
MA202	Probability Distributions, Transforms and Numerical Methods	3	1	0	4	A
EE202	Synchronous and Induction Machines	3	1	0	4	B
EE204	Digital Electronics and Logic Design	2	1	0	3	C
EE206	Material Science	3	0	0	3	D
EE208	Measurements and Instrumentation	3	1	0	4	E
HS210/	Life Skills/	2	0	2/	3	F
HS200	Business Economics	3	0	0		
EE232	Electrical Machines Lab I	0	0	3	1	S
EE234	Circuits and Measurements Lab	0	0	3	1	T

(Total Credits = 23. Hours = 28/27. Cumulative Credits = 94.)

Semester 5

Course No.	Subject	Hr/Wk			Cr	ES
		L	T	P		
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 1	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 1

1. EE361 Object Oriented Programming
2. EE363 Computer Organization and Architecture

3. EE365 Digital System Design

4. EE367 New and Renewable Energy Systems

5. EE369 High Voltage Engineering

Semester 6

Course No.	Subject	L	T	P	Cr	ES
EE302	Electromagnetics	2	1	0	3	A
EE304	Advanced Control Theory	3	1	0	4	B
EE306	Power System Analysis	3	0	0	3	C
EE308	Electric Drives	3	0	0	3	D
HS300	Principles of Management	3	0	0	3	E
	Elective 2	3	0	0	3	F
EE332	Systems and Control Lab	0	0	3	1	S
EE334	Power Electronics & Drives Lab	0	0	3	1	T
EE352	Comprehensive Exam	0	1	1	2	U

(Total Credits = 23. Hours = 27. Cumulative Credits = 140.)

Elective 2

1. EE362 Data Structures and Algorithms

2. EE364 Switched Mode Power Converters

3. EE366 Illumination Technology

4. EE368 Soft Computing

5. EE372 Biomedical Instrumentation

Semester 7

Course No.	Subject	L	T	P	Cr	ES
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

1. EE461 Modern Operating Systems

2. EE463 Computer Aided Power Systems Analysis

3. EE465 Power Quality

4. EE467 Nonlinear Control Systems

5. EE469 Electric and Hybrid Vehicles

Semester 8

Course No.	Subject	Hr/Wk			Cr	ES
		L	T	P		
EE402	Special Electric Machines	3	0	0	3	A
EE404	Industrial Instrumentation & Automation	3	0	0	3	B
	Elective 4	3	0	0	3	C
	Elective 5 (Non-departmental)	3	0	0	3	D
EE492	Project				6	

(Total Credits = 18. Hours = 30. Cumulative Credits = 180.)

Elective 4

1. EE462 Design of Digital Control Systems
2. EE464 FACTS
3. EE466 Digital Image Processing
4. EE468 Computer Networks
5. EE472 Internet of Things
6. EE474 Energy Management and Auditing

5   Mechanical Engineering

Semester 1

Sl. No.	Course Code	Subject	Hr/Wk			Cr
			L	T	P	
1	MA101	Calculus	3	1	0	4
2	CY100	Engineering Chemistry	3	1	0	4
3	BE110	Engineering Graphics	1	1	2	3
4	BE101 02	Introduction to Mechanical Engineering Sciences	2	1	0	3
5	BE103	Introduction to Sustainable Engineering	2	0	1	3
6	CE100	Basics of Civil Engineering	2	1	0	3
7	CY110	Engineering Chemistry LAB	0	0	2	1
8	ME110	Mechanical Engineering Workshop	0	0	2	1
9	CE110	Civil Engineering Workshop	0	0	2	1

Semester 2

Sl. No.	Course Code	Subject	Hr/Wk			Cr
			L	T	P	
1	MA102	Differential Equations	3	1	0	4
2	PH100	Engineering Physics	3	1	0	4
3	BE100	Engineering Mechanics	3	1	0	4
4	BE102	Design and Engineering	2	0	2	3
5	EE100	Basics of Electrical Engineering	2	1	0	3
6	EC100	Basics of Electronics Engineering	2	1	0	3
7	PH110	Engineering Physics LAB	0	0	2	1
8	EE110	Electrical Engineering Workshop	0	0	2	1
9	EC110	Electronics Engineering Workshop	0	0	2	1

Semester 3

Course No.	Subject	Hr/Wk			Cr	ES
		L	T	P		
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 and Materials Engineering	3	0	0	3	E
HS200/	Business Economics/	3	0	0/	3	F
HS210	Life Skills	2	0	2		
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 4

Course No.	Subject	Hr/Wk			Cr	ES
		L	T	P		
MA202	Probability Distributions, Transforms and Numerical Methods	3	1	0	4	A
ME202	Advanced Mechanics of Solids	3	1	0	4	B
ME204	Thermal Engineering	3	1	0	4	C
ME206	Fluid Machinery	2	1	0	3	D
ME220	Manufacturing Technology	3	0	0	3	E
HS210/	Life Skills/	2	0	2/	3	F
HS200	Business Economics	3	0	0		
ME232	Thermal Engineering Lab	0	0	3	1	S
ME230	Fluid Mechanics & Machines Lab	0	0	3	1	T

(Total Credits = 23. Hours = 28/27. Cumulative Credits = 94.)

Semester 5

Course No.	Subject	Hr/Wk			Cr	ES
		L	T	P		
ME301	Mechanics of Machinery	3	1	0	4	A
ME303	Machine Tools & 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
1. ME361 Advanced Fluid Mechanics
2. ME363 Composite Materials and Mechanics

3. ME365 Advanced Metal Casting
4. ME367 Non-Destructive Testing
5. ME369 Tribology
6. ME371 Nuclear Engineering
7. ME373 Human Relations Management

Semester 6

Course No.	Subject	Hr/Wk			Cr	ES
		L	T	P		
ME302	Heat & Mass Transfer	3	1	0	4	A
ME304	Dynamics of Machinery	2	1	0	3	B
ME306	Advanced Manufacturing Technology	3	0	0	3	C
ME308	Computer Aided Design and Analysis	3	0	0	3	D
ME312	Metrology and Instrumentation	3	0	0	3	E
	Elective 2	3	0	0	3	F
ME332	Computer Aided Design & Analysis Lab	0	0	3	1	S
ME334	Manufacturing Technology Lab II	0	0	3	1	T
ME352	Comprehensive Exam	0	1	1	2	U

(Total Credits = 23. Hours = 27. Cumulative Credits = 140.)

Elective 2
1. ME362 Control System Engineering
2. ME364 Turbo Machinery
3. ME366 Advanced Metal Joining Technology
4. ME368 Marketing Management
5. ME372 Operations Research
6. ME374 Theory of Vibration
7. ME376 Maintenance Engineering

Semester 7

Course No.	Subject	Hr/Wk			Cr	ES
		L	T	P		
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
1. ME461 Aerospace Engineering
2. ME463 Automobile Engineering
3. ME465 Industrial Hydraulics
4. IE306 Supply Chain and Logistics Management
5. ME467 Cryogenic Engineering
6. ME469 Finite Element Analysis

7. ME471 Optimization Techniques

Semester 8

Course No.	Subject	Hr/Wk			Cr	ES
		L	T	P		
ME402	Design of Machine Elements II	3	0	0	3	A
ME404	Industrial Engineering	3	0	0	3	B
	Elective 4	3	0	0	3	C
	Elective 5 (Non-departmental)	3	0	0	3	D
ME492	Project				6	

(Total Credits = 18. Hours = 30. Cumulative Credits = 180.)

Elective 4

1. ME462 Propulsion Engineering
2. ME464 Robotics and Automation
3. ME466 Computational Fluid Dynamics
4. ME468 Nanotechnology
5. ME472 Failure Analysis and Design
6. ME474 Micro and Nano Manufacturing
7. ME476 Material Handling & Facilities Planning

6   Production Engineering

Semester 1

Sl. No.	Course Code	Subject	Hr/Wk			Cr
			L	T	P	
1	MA101	Calculus	3	1	0	4
2	PH100	Engineering Physics	3	1	0	4
3	BE100	Engineering Mechanics	3	1	0	4
4	BE101 02	Introduction to Mechanical Engineering Sciences	2	1	0	3
5	BE103	Introduction to Sustainable Engineering	2	0	1	3
6	EC100	Basics of Electronics Engineering	2	1	0	3
7	PH110	Engineering Physics LAB	0	0	2	1
8	ME110	Mechanical Engineering Workshop	0	0	2	1
9	EC110	Electronics Engineering Workshop	0	0	2	1

Semester 2

Sl. No.	Course Code	Subject	Hr/Wk			Cr
			L	T	P	
1	MA102	Differential Equations	3	1	0	4
2	CY100	Engineering Chemistry	3	1	0	4
3	BE100	Engineering Mechanics	3	1	0	4
4	BE102	Design and Engineering	2	0	2	3
5	CE100	Basics of Civil Engineering	2	1	0	3
6	EE100	Basics of Electrical Engineering	2	1	0	3
7	CY110	Engineering Chemistry LAB	0	0	2	1
8	CE110	Civil Engineering Workshop	0	0	2	1
9	EE110	Electrical Engineering Workshop	0	0	2	1

Semester 3

Course No.	Subject	Hr/Wk L	T	P	Cr	ES
MA201	Linear Algebra & Complex Analysis	3	1	0	4	A
ME201	Mechanics of Solids	3	1	0	4	B
ME200	Fluid Mechanics & Machinery	3	1	0	4	C
MP201	Machine Tool Technology	4	0	0	4	D
ME210	Metallurgy & Materials Engineering	3	0	0	3	E
HS200/	Business Economics/	3	0	0/	3	F
HS210	Life Skills	2	0	2		
ME233	Mechanical Engineering Lab	0	0	3	1	S
MP231	Production Engineering Drawing	0	0	3	1	T

(Total Credits = 24. Hours = 28/29. Cumulative Credits = 71.)

Semester 4

Course No.	Subject	Hr/Wk L	T	P	Cr	ES
MA202	Probability Distributions, Transforms and Numerical Methods	3	1	0	4	A
MP202	Machining of Materials	3	1	0	4	B
MP204	Industrial Engineering	4	0	0	4	C
MP206	Foundry Technology	3	0	0	3	D
MP208	Metal Joining Technology	3	0	0	3	E
HS210/	Life Skills/	2	0	2/	3	F
HS200	Business Economics	3	0	0		
MP232	Machine Tools Lab I	0	0	3	1	S
CE230	Material Testing Lab	0	0	3	1	T

(Total Credits = 23. Hours = 28/27. Cumulative Credits = 94.)

Semester 5

Course No.	Subject	Hr/Wk L	T	P	Cr	ES
ME301	Mechanics of Machinery	3	1	0	4	A
MP301	Metal Forming Technology	3	0	0	3	B
ME305	Computer Programming & Numerical Methods	3	0	0	3	C
ME313	Thermal Engineering	3	0	0	3	D
HS300	Principles of Management	3	0	0	3	E
	Elective 1	3	0	0	3	F
MP341	Design Project	0	1	2	2	S
MP331	Machine Tools Lab II	0	0	3	1	T
MP333	Production Engineering Lab I	0	0	3	1	U

(Total Credits = 23. Hours = 28. Cumulative Credits = 117.)

Elective 1
1. MP365 Machine Tool Design
2. MP361 Facilities Planning and Plant Layout
3. MP367 Entrepreneurship

4. ME369 Tribology

5. MP369 Soft Computing

Semester 6

Course No.	Subject	Hr/Wk			Cr	ES
		L	T	P		
ME318	Machine Design	3	1	0	4	A
ME304	Dynamics of Machinery	2	1	0	3	B
EE312	Electrical and Electronics Engineering	3	0	0	3	C
ME308	Computer Aided Design and Analysis	3	0	0	3	D
ME312	Metrology and Instrumentation	3	0	0	3	E
	Elective 2	3	0	0	3	F
MP332	CAD/CAM Lab	0	0	3	1	S
EE336	Electrical and Electronics Lab	0	0	3	1	T
MP352	Comprehensive Exam	0	1	1	2	U

(Total Credits = 23. Hours = 27. Cumulative Credits = 140.)

Elective 2

1. MP364 Rapid Prototyping, Tooling and Manufacture

2. MP366 Modern Manufacturing Concepts

3. MP368 Advanced Materials and Processes

4. MP372 Industrial Automation

5. ME469 Finite Element Analysis

Semester 7

Course No.	Subject	Hr/Wk			Cr	ES
		L	T	P		
MP401	Maintenance Engineering. and Management	4	0	0	4	A
MP403	Computer Integrated Manufacturing	3	0	0	3	B
MP405	Tool Engineering	3	0	0	3	C
ME407	Mechatronics	3	0	0	3	D
MP407	Total Quality Management	3	0	0	3	E
	Elective 3	3	0	0	3	F
MP451	Seminar & Project Preliminary	0	1	4	2	S
MP431	Production Engineering Lab	0	0	3	1	T

(Total Credits = 22. Hours = 27. Cumulative Credits = 162.)

Elective 3

1. IE364 Management Information Systems

2. MP465 Concurrent Engineering

3. IE306 Supply Chain and Logistics Management

4. IE462 Marketing Management

5. MP467 Human Resources Management

Semester 8

Course No.	Subject	Hr/Wk			Cr	ES
		L	T	P		
MP402	Operations Research	3	0	0	3	A
MP404	Productions and Operations Management	3	0	0	3	B
	Elective 4	3	0	0	3	C
	Elective 5 (Non-departmental)	3	0	0	3	D
MP492	Project				6	

(Total Credits = 18. Hours = 30. Cumulative Credits = 180.)

Elective 4

1. MP464 Simulation of Manufacturing Systems
2. MP466 Integrated Product Development
3. ME468 Nanotechnology
4. MP468 Lean and Agile Manufacturing
5. MP472 Technology Management

11
Curriculum for MTech Programmes

APJAKTU has identified ten clusters of colleges offering MTech programmes in different streams. Vidya Academy of science & Technology is a member of "07 – Thrissur Cluster" of APJAKTU. These clusters have academic autonomy, regulated by a Cluster-level Graduate Programme Committee (CGPC) consisting of all the principals of the colleges in the cluster. The CGPC is responsible for all academic matters including the curriculum, syllabi, course plans, internal evaluations, end semester examinations, and grading for all streams of MTech programmes offered by the colleges in the cluster.

Colleges in Thrissur Cluster of APJAKTU

1. Government Engineering College, Thrissur

2. AXIS College of Engineering & Technology, Murikkingal, Thrissur

3. IES College of Engineering, Chittilapilly, Thrissur

4. MET'S School of Engineering, Mala, Thrissur

5. Royal College of Engineering & Technology, Akkikkavu, Thrissur

6. Vidya Academy of Science & Technology, Thalakkottukara, Thrissur

7. Thejus Engineering College, Vellarakkad, Erumappetty, Thrissur

8. Universal Engineering College, Vallivattom, Konathakunnu, Thrissur

9. Sahrdaya College of Engineering & Technology, Kodakara, Thrissur

MTech programmes offered by Vidya Academy of Science & Technology

The following table contains the specialisations of the MTech programmes offered by Vidya Academy of Science & Technology.

Sl. No.	Specialisations offered by Vidya Academy of Science & Technology	Department offering the specialisation
1	Structural Engineering	Civil Engineering
2	Computer Science & Engineering	Computer Science & Engineering
3	Embedded Systems	Electronics & Communications Engineering
4	Power Electronics	Electrical & Electronics Engineering

Curriculum of the MTech programmes offered by Vidya Academy of Science & Technology

1 MTech (Structural Engineering)

Semester 1

ES	CC	Title	Hr/Wk			ICA	ESE		Cr
			L	T	P	Mk	Mk	Hr	
A	07 MA 6005	Mathematical Methods in Structural Engineering	3	1	0	40	60	3	4
B	07 CE 6301	Theory of Elasticity	3	1	0	40	60	3	4
C	07 CE 6303	Advanced Design of Concrete Structures	3	0	0	40	60	3	3
D	07 CE 6305	Structural Dynamics	3	1	0	40	60	3	4
E	07 CE 63XX	Elective I	3	0	0	40	60	3	3
–	07 GN 6001	Research Methodology	0	2	0	100	0	0	2
–	07 CE 6307	Computational Lab	0	0	2	100	0	0	1
–	07 CE 6309	Introduction to Seminar	0	0	0	0	0	0	0
		Total	15	5	2	360	240	–	21

Elective I

1. 07 CE 6311 Design of Bridges

2. 07 CE 6313 Advanced Foundation Engineering

3. 07 CE 6315 Experimental Stress Analysis and Instrumentation

Semester 2

ES	CC	Title	Hr/Wk			ICA	ESE		Cr
			L	T	P	Mk	Mk	Hr	
A	07 CE 6302	Finite Element Analysis	3	1	0	40	60	3	4
B	07 CE 6304	Earthquake Resistant Design of Structures	3	0	0	40	60	3	3
C	07 CE 6306	Advanced Design of Steel Structures	3	0	0	40	60	3	3
D	07 CE 63XX	Elective II	3	0	0	40	60	3	3
E	07 CE 63XX	Elective III	3	0	0	40	60	3	3
–	07 CE 6308	Seminar I	0	0	2	100	0	0	2
–	07 CE 6312	Mini Project	0	0	4	100	0	0	2
–	07 CE 6314	Structural Engineering Lab	0	0	2	100	0	0	1
		Total	15	1	8	500	300	–	21

Electives

1. 07 CE 6316 Analysis of Plates and Shells

2. 07 CE 6318 Marine Structures

3. 07 CE 6322 Soil Structure Interaction

4. 07 CE 6324 Design of Prestressed Concrete Structures

5. 07 CE 6326 Pavement Analysis and Design

6. 07 CE 6328 Structural Optimization and Reliability Analysis

Note: 8 hours/week is meant for departmental assistance by students.

Semester 3

ES	CC	Title	Hr/Wk			ICA	ESE		Cr
			L	T	P	Mk	Mk	Hr	
A	07 CE 73XX	Elective IV	3	0	0	40	60	3	3
B	07 CE 73XX	Elective V	3	0	0	40	60	3	3
–	07 CE 7301	Seminar II	0	0	2	40	60	0	2
–	07 CE 7303	Main Project Phase I	0	0	12	50	0	0	6
		Total	6	0	14	170	180	–	14

Electives

1. 07 CE 7305 Probability Methods in Civil Engineering
2. 07 CE 7307 Forensic Engineering and Rehabilitation of Structures
3. 07 CE 7309 Elastic Stability
4. 07 CE 7311 High Rise Buildings
5. 07 CE 7313 Engineering Fracture Mechanics
6. 07 CE 7315 Advanced Concrete Technology
7. 07 CE 7317 Mechanics of Composite Materials

Note: 8 hours/week is meant for departmental assistance by students.

Semester 4

ES	CC	Title	Hr/Wk			ICA	ESE		Cr
			L	T	P	Mk	Mk	Hr	
–	07 CE 7302	Main Project Phase II	0	0	21	70	30	0	12
		Total	0	0	21	70	30	–	12

Note: 8 hours/week is meant for departmental assistance by students

2   MTech (Computer Science & Engineering)

Semester 1

ES	CC	Title	Hr/Wk			ICA	ESE		Cr
			L	T	P	Mk	Mk	Hr	
A	07 MA 6011	Mathematical Foundations of Computer Science	4	0	0	40	60	3	4
B	07 CS 6101	Advanced Software Engineering	4	0	0	40	60	3	4
C	07 CS 6103	Algorithms and Complexity	4	0	0	40	60	3	4
D	07 CS 6105	Topics in Database Systems and Design	3	0	0	40	60	3	3
E	–	Elective I	3	0	0	40	60	3	3
–	07 GN 6001	Research Methodology	0	2	0	100	0	0	2
–	07 CS 6115	Advanced Programming Lab	0	0	2	100	0	0	1
–	07 CS 6117	Introduction to Seminar	0	1	0	–	–	–	–
		Total	18	2	2	400	300		21

Elective I

1. 07 CS 6107 Artificial Intelligence
2. 07 CS 6109 Advanced Networking Technologies
3. 07 CS 6111 Distributed and Mobile Operating Systems
4. 07 CS 6113 Digital Image Processing

Semester 2

ES	CC	Title	Hr/Wk			ICA	ESE		Cr
			L	T	P	Mk	Mk	Hr	
A	07CS 6102	Advanced Compiler Design	4	0	0	40	60	3	4
B	07CS 6104	Advanced Parallel Computing	3	0	0	40	60	3	3
C	07CS 6106	Machine Learning and Language Processing	3	0	0	40	60	3	3
D	–	Elective II	3	0	0	40	60	3	3
E	–	Elective III	3	0	0	40	60	3	3
–	07CS 6124	Seminar-1	0	0	2	100	0	2	
–	07CS 6126	Mini Project	0	0	4	100	0	0	2
–	07CS 6128	Advanced Research lab	0	0	2	100	0	0	1
		Total	16	0	8	500	300	–	21

Elective II

1. 07 CS 6108 Data Compression

2. 07 CS 6110 Advanced Topics in Information Security

3. 07 CS 6112 Software Quality Assurance and Reliability

4. 07 CS 6114 Cloud Computing

Elective III

1. 07 CS 6116 High Performance and Secure Networks

2. 07 CS 6118 Bio-informatics

3. 07 CS 6120 Soft Computing

4. 07 CS 6122 Lambda Calculus

Semester 3

ES	CC	Title	Hr/Wk			ICA	ESE		Cr
			L	T	P	Mk	Mk	Hr	
A		Elective IV	3	0	0	40	60	3	3
B		Elective V	3	0	0	40	60	3	3
–	07CS 7117	Seminar 2	0	0	2	100	0	0	2
–	07CS 7119	Master Research Project Phase I	0	0	12	50	0	0	6
		Total	6	0	14	230	120	–	14

(Note: ICA marks for Project Phase I to be awarded by Guide out of 20 marks and by Evaluation Committee out of 30 marks (total out of 50 marks).)

Elective IV

1. 07 CS 7101 Wireless Communication Technique

2. 07 CS 7103 Advanced Machine Learning

3. 07 CS 7105 Computer Vision

4. 07 CS 7107 Optimization Techniques

Elective V

1. 07 CS 7109 Ad-hoc Wireless Networks

2. 07 CS 7111 Advanced Cryptography

3. 07 CS 7113 Combinatorial Algorithms

4. 07 CS 7115 Big-data Analytics

Semester 4

ES	CC	Title	Hr/Wk			ICA Mk	ESE Mk	ESE Hr	Cr
			L	T	P				
–	07CS 7102	Master Research Project Phase II	0	0	21	70	30	0	12
		Total	0	0	21	70	30	–	12

Note: ICA marks for Project Phase I to be awarded by Guide out of 30 marks and by Evaluation Committee out of 40 marks (total out of 70 marks).

Note: The student has to undertake the departmental work assigned by the Head of Department.

3   MTech (Embedded Systems)

Semester 1

ES	CC	Title	Hr/Wk			ICA Mk	ESE Mk	ESE Hr	Cr
			L	T	P				
A	07 MA 6017	Advanced Engineering Mathematics	4	0	0	40	60	3	4
B	07 EC 6403	Advanced Embedded Processors	4	0	0	40	60	3	4
C	07 EC 6405	Advanced Digital system design	4	0	0	40	60	3	4
D	07 EC 6407	Embedded Programming	3	0	0	40	60	3	3
E	07 EC 64X9	Elective I	3	0	0	40	60	3	3
–	07 GN 6001	Research Methodology	0	2	0	100			2
–	07 EC 6411	Embedded Processors Laboratory	0	0	2	100	0	0	1
–	07 EC 6413	Introduction to Seminar	0	0	1	0	0	1	0
		Total	18	2	3	400	300	–	21

Elective I

1. 07 EC 6409 Electronic System Design
2. 07 EC 6419 Software Engineering
3. 07 EC 6429 Embedded Networking

Semester 2

ES	CC	Title	Hr/Wk			ICA Mk	ESE Mk	ESE Hr	Cr
			L	T	P				
A	07 EC 6402	Design of Digital Signal Processing Systems	4	0	0	40	60	3	4
B	07 EC 6404	Embedded OS and RTOS	3	0	0	40	60	3	3
C	07 EC 6406	Product Design and Quality Management	3	0	0	40	60	3	3
D	07 EC 64X8	Elective II	3	0	0	40	60	3	3
E	07 EC 64X2	Elective III	3	0	0	40	60	3	3
–	07 EC 6414	Seminar	0	0	2	100	0	0	2
–	07 EC 6416	Mini Project		0	0	4	100	0	2
–	07 EC 6418	Design of Digital Signal Processing Systems Lab	0	0	2	100	0	0	1
		Total	16	0	8	500	300	–	21

Elective II

1. 07 EC 6428 Embedded Applications in Power Conversion

2. 07 EC 6438 Modern Control System Design

3. 07 EC 6448 Information Security

Elective III

1 07 EC 6412 High Speed Digital System Design

2 07 EC 6422 ASIC & SOC

3 07 EC 6432 Multimedia Compression Techniques

Semester 3

ES	CC	Title	Hr/Wk L	T	P	ICA Mk	ESE Mk	Hr	Cr
A	07 EC 74X1	Elective IV	3	0	0	40	60	3	3
B	07 EC 74X3	Elective V	3	0	0	40	60	3	3
–	07 EC 7405	Seminar	0	0	2	100	0	0	2
–	07 EC 7407	Project (Phase 1)	0	0	12	50	0	0	6
		Total	6	0	14	230	120	–	14

Elective IV

1. 07 EC 7401 VLSI Architecture and Design Methodologies

2. 07 EC 7411 Electronic Instrumentation Design

3. 07 EC 7421 Robotics and Machine Vision

Elective V

1. 07 EC 7403 Wireless Communication Systems

2. 07 EC 7413 Hardware/Software Co-design in Embedded Systems

3. 07 EC 7423 Mixed Signal System Design

Semester 4

ES	CC	Title	Hr/Wk L	T	P	ICA Mk	ESE Mk	Hr	Cr
–	07 EC 7402	Project (Phase II)	0	0	21	70	30	0	12
		Total	0	0	21	70	30	–	12

4　MTech (Power Electronics)

Semester 1

ES	CC	Title	Hr/Wk L	T	P	ICA Mk	ESE Mk	Hr	Cr
A	07 MA 6019	Applied Mathematics	3	1	0	40	60	3	4
B	07 EE 6201	System Dynamics	3	1	0	40	60	3	4
C	07 EE 6103	Analysis of Power Electronic Circuits I	3	1	0	40	60	3	4
D	07 EE 6105	Electric Drives	3	0	0	40	60	3	3
E	07 EE 6xxx	Elective I	3	0	0	40	60	3	3
–	07 GN 6001	Research Methodology	0	2	0	100	0	0	2
–	07 EE 6009	Power Electronics Lab	0	0	2	100	0	0	1
–	07 EE 6111	Introduction to Seminar	0	1	0	0	0	0	1
		Total	15	6	2	400	300	–	21

Elective I

1. 07 EE 6207 Optimization Techniques
2. 07 EE 6117 Power Semiconductor Devices and Modelling
3. 07 EE 6127 High Voltage AC and DC Transmission
4. 07 EE 6137 Dynamics of Electric Machines

Note: 8 hours/week is meant for departmental assistance by students.

Semester 2

ES	CC	Title	Hr/Wk			ICA	ESE		Cr
			L	T	P	Mk	Mk	Hr	
A	07 EE 6102	Analysis of Power Electronic Circuits II	3	1	0	40	60	3	4
B	07 EE 6104	Switched Mode Power Converters	3	0	0	40	60	3	3
C	07 EE 6106	Advanced Electric Drives	3	0	0	40	60	3	3
D	07 EE 6xxx	Elective II	3	0	0	40	60	3	3
E	07 EE 61xx	Elective III	3	0	0	40	60	3	3
–	07 EE 6114	Mini Project	0	0	2	100	0	0	2
–	07 EE 6116	Advanced Power Electronics Lab	0	0	2	100	0	0	1
–	07 EE 6124	Seminar I	0	0	2	100	0	0	2
		Total	15	1	6	500	300	–	21

Elective II

1. 07 EE 6208 Flexible AC Transmission Systems
2. 07 EE 6118 Design of Power Electronic System
3. 07 EE 6128 Nonlinear Control Systems
4. 07 EE 6138 Computer Aided Design of Electrical Machines

Elective III

1. 07 EE 6112 Industrial Control Electronics
2. 07 EE 6122 Renewable Energy Technologies
3. 07 EE 6132 Optimal and Adaptive Control Systems
4. 07 EE 6142 Robotics and Automation

Semester 3

ES	CC	Title	Hr/Wk			ICA	ESE		Cr
			L	T	P	Mk	Mk	Hr	
A	07 EE 7xxx	Elective IV	3	0	0	40	60	3	3
B	07 EE 7xxx	Elective V	3	0	0	40	60	3	3
–	07 EE 7105	Seminar II	0	0	2	100	0	0	2
–	07 EE 7107	Project (Phase I)	0	0	12	50	0	0	6
		Total	6	0	14	230	120	–	14

Elective IV

1 07 EE 7101 Digital Control Systems
2 07 EE 7211 Power Quality
3 07 EE 7121 Industrial Instrumentation
4 07 EE 7131 Digital Signal Processors

Elective V

1 07 EE 7103 Special Electrical Machines and Drives
2 07 EE 7213 Soft Computing Techniques
3 07 EE 7123 Electromagnetic Compatibility
4 07 EE 7133 Electric Systems for Wind and Solar Energy

Semester 4

ES	CC	Title	Hr/Wk			ICA	ESE		Cr
			L	T	P	Mk	Mk	Hr	
–	07 EE 7102	Project (Phase II)	0	0	21	70	30	0	12
		Total	0	0	21	70	30	–	12

12
Curiculum for MCA Programme

Semester 1

Code	Title	L	T	P	ICA Mk	ESE Mk	Cr	ES
RLMCA101	Problem Solving and Computer Programming	3	1	–	40	60	4	A
RLMCA103	Discrete Mathematics	3	1	–	40	60	4	B
RLMCA105	Applied Probability and Statistics	3	1	–	40	60	4	C
RLMCA107	Principles of Management	3	1	–	40	60	4	D
RLMCA109	Digital Fundamentals	3	1	–	40	60	4	E
RLMCA131	Programming Lab	–	–	4	100	–	1	S
RLMCA133	Applied Statistics Lab	–	–	4	100	–	1	T
	TOTAL	15	5	8	400	300	22	

Semester 2

Code	Title	L	T	P	ICA Mk	ESE Mk	Cr	ES
RLMCA102	Object Oriented Programming	3	1	–	40	60	4	A
RLMCA104	Data Structures	3	1	–	40	60	4	B
RLMCA106	Operating Systems	3	1	–	40	60	4	C
RLMCA108	Operations Research	3	1	–	40	60	4	D
RLMCA112	Computer Organization and Architecture	3	1	–	40	60	4	E
RLMCA132	Object Oriented Programming Lab	–	–	4	100	–	1	S
RLMCA134	Data Structures Lab	–	–	4	100	–	1	T
	TOTAL	15	5	8	400	300	22	

Semester 3

Code	Title	L	T	P	ICA Mk	ESE Mk	Cr	ES
RLMCA201	Computer Networks	3	1	–	40	60	4	A
RLMCA203	Software Engineering	3	1	–	40	60	4	B
RLMCA205	Database Management Systems	3	1	–	40	60	4	C
RLMCA207	Design and Analysis of Algorithms	3	1	–	40	60	4	D
RLMCA209	Web Programming	3	1	–	40	60	4	E
RLMCA231	Database Lab	–	–	4	100	–	1	S
RLMCA233	Web Programming Lab	–	–	4	100	–	1	T
	TOTAL	15	5	8	400	300	22	

Semester 4

Code	Title	Hr/Wk			ICA Mk	ESE Mk	Cr	ES
		L	T	P				
RLMCA202	Application Development and Maintenance	3	1	–	40	60	4	A
RLMCA204	Big Data Technologies	3	1	–	40	60	4	B
RLMCA206	Mobile Computing	3	1	–	40	60	4	C
RLMCA208	Introduction to Machine Learning	3	1	–	40	60	4	D
RLMCA2–	Elective I	3	1	–	40	60	4	E
RLMCA232	System Design Lab	–	–	4	100	–	1	S
RLMCA234	Mobile Application Development Lab	–	–	4	100	–	1	T
	TOTAL	15	5	8	400	300	22	

Elective 1
1. RLMCA262 Functional Programming
2. RLMCA264 Design and Analysis of Parallel Algorithms
3. RLMCA266 Advanced Database Systems
4. RLMCA268 Computational Science
5. RLMCA272 Advanced Java Programming
6. RLMCA274 Business Intelligence and its Applications

Semester 5

Code	Title	Hr/Wk			ICA Mk	ESE Mk	Cr	ES
		L	T	P				
RLMCA301	Web Data Mining	3	1	–	40	60	4	A
RLMCA303	E-Commerce	3	–	–	40	60	3	B
RLMCA305	Cryptography and Cyber Security	3	1	–	40	60	4	C
RLMCA3–	Elective II	3	1	–	40	60	4	D
RLMCA3–	Elective III	3	1	–	40	60	4	E
RLMCA341	Seminar	–	–	2	50	–	2	S
RLMCA351	Mini Project	–	–	8	150	–	2	T
	TOTAL	15	4	10	400	300	23	

Elective 2
1. RLMCA361 Compiler Construction
2. RLMCA363 IPR and Cyber Law
3. RLMCA365 Cyber Forensics
4. RLMCA367 Internet of Things
5. RLMCA369 Python Programming
6. RLMCA371 Social Network Analysis

Elective 3
1. RLMCA381 Cloud Computing
2. RLMCA383 Human Computer Interaction
3. RLMCA385 Bioinformatics
4. RLMCA387 Computer Graphics
5. RLMCA389 Parallel and Distributed Computing
6. RLMCA391 Artificial Intelligence

Semester 6

Code	Title	Hr/Wk			ICA Mk	ESE Mk	Cr	ES
		L	T	P				
RLIMCA352	Project and Viva Voce	–	–	30	70	30	12	

(Cumulative total marks = 3600. Cumulative total credits = 123.)

13
APJAKTU Ordinance for BTech

Kerala Technological University
CET Campus, Thiruvananthapuram, Kerala-695016
Ordinance for Bachelor of Technology BTech/BTech(Honours)[1]

In exercise of the Powers conferred under Clause 44 of the Ordinance, the Executive Committee of the University hereby promulgate the Ordinance for the University for the Academic Year 2015-2016. This Ordinance shall come into effect from the date of its publication in the Gazette.

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[1]The contents of this section is intended as a verbatim reproduction of this Ordinance the original of which is available at `https://ktu.edu.in/data/KTU%20-BTech%20ordinance.pdf`. The original may be consulted in case of any doubts about any of the provisions of the ordinance.

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8. Amendment to Ordinance/Regulations/Rules to carry out the purpose of the Ordinance Addendum

1   Admission to BTech/BTech (Honours)

a) Eligibility for admission to the BTech programme, admission policy and procedure shall be decided from time to time by following the guidelines issued by the Government of Kerala and the Government of India and other statutory body such as AICTE.

b) Subject to Clause 1(a), Admission to BTech, shall be based on the guidelines given by the State and Central Governments on reservation. Candidates for admission to BTech programme shall have passed the Higher Secondary Examination, Kerala or 12th Standard V.H.S.E., C.B.S.E., I.S.C or any other examination considered equivalent to the above mentioned ones. Other eligibility criteria for admission is currently prescribed by the Government of Kerala through Government orders which is based on the entrance examination conducted by the Commission for Entrance Examinations, Government of Kerala and the marks in the qualifying examination subject to the relaxations allowed for backward classes and other communities as specified from time to time.

c) The Branches of study and number of students admitted are to be based on the approval by the All India Council for Technical Education and the Kerala Technological University.

d) Notwithstanding all that is stated above, the admission policy may be modified from time to time by the University, particularly to confirm to directions from the Government of Kerala and the Government of India.

e) The BTech/BTech (Honours) programme is a credit based programme. The duration of the BTech/BTech (Honours) programme will normally be four academic years spanning 8 semesters. The maximum duration shall be six academic years spanning 12 semesters.

2   Examination

1. At the end of the semester, end semester examination will be conducted in all lecture based courses offered in the semester and will normally be of three hours duration, unless otherwise specified. Supplementary examinations shall be conducted before the commencement of the next semester, for students who are eligible and have registered for them.

2. Students, who have completed a course but could not write the end semester examination for valid reasons like illness or personal exigencies, are allowed to write the supplementary examination or the end semester examination at the next opportunity and earn the credits without having to register for the course again provided they meet other eligibility criteria.

3. The main eligibility criteria for the end semester examination are attendance in the course, internal marks and no pending disciplinary action. The minimum attendance for appearing for the end semester examination is 75% in each course. Further, the internal evaluation marks in the course should be 45% or above. Students who do not meet these eligibility criteria are awarded an FE grade and have to register for the course again.

4. Students who could not write the end semester examination due to health reasons or other exigencies can register for the supplementary examination, with the approval of the principal provided they have 45% or above marks in the internal evaluations for the course. Candidates who received F grade can also write the supplementary examination. Grades awarded in the supplementary examination will be taken as the end semester grades in these courses.

3   Eligibility for Award of Degree

The award of BTech/BTech (Honours) degree shall be based on the recommendation of the Academic Committee and the approval of the Board of Governors and in accordance with the academic regulations, if any, issued for the said purpose by the University.

Award of BTech Degree

A student will be eligible for the award of BTech Degree of the University on satisfying the following requirements.

1. Earned credits for all the core courses and the Project.

2. Earned the required minimum credits as specified in the curriculum for the branch of study.

3. No pending disciplinary action.

4   Fee charged by the University

Fee charged for the programme shall be decided by the University from time to time and informed to all concerned for compliance.

5   Discipline of the Student - Action against Breach of Discipline

Every college shall have a Studentfs Welfare Committee and a Disciplinary Action Committee, constituted by the Principal of the college. Each college should have a Grievance Redressal and Appeals Committee constituted by the Principal to address the grievances of the students and to consider their appeals on any decisions made by the college. Details on the constitution and terms of reference are outlined in 7-x, 7-y, and 7-z.

6   Breach of Guidelines and Unfair Practices in Examinations

These are viewed seriously and appropriate actions are to be taken by the colleges as detailed in 7-x.

7   Miscellaneous Provisions

a) Language of Instruction and Examination

Unless otherwise stated, the language of instruction and examinations shall be English.

b) Academic Calendar

The University shall publish in its website the academic calendar for every academic semester indicating the commencement of the semester and beginning of instruction. It will specify the course registration and enrolment dates, the schedule for mandatory internal tests for theory courses, dates by which laboratory/practical evaluations are to be completed, date for finalization of internal marks, last instruction day in the semester, planned schedule of end semester examinations and result declaration as well as approved holidays falling within the semester. Schedules for the supplementary examinations and result declaration dates are to be included in the calendar. Summer course

schedule and result declaration have also to be indicated in the calendar. Additionally colleges may publish their academic calendar, in line with the University academic calendar, indicating other schedules and events they plan to conduct during the semester.

c) Branches of BTech Programmes

The Branches of BTech/BTech (Honours) programme offered by the University are listed separately at the end of this Ordinance

d) BTech Programme Structure

   i) BTech/BTech (Honours) programme in all branches of study is structured on a credit based system following the semester pattern with continuous evaluation allowing flexibility for students to decide on the duration of programme completion.

  ii) The duration for the BTech/BTech (Honours) programme in all branches of study, will normally be 8 semesters.

 iii) The maximum duration shall be six academic years spanning 12 semesters.

 iv) Each semester shall have 72 instructional days, followed by end semester examinations.

  v) A student can opt for BTech (Honours) at the end of the fourth semester.

 vi) The curriculum of any branch of the BTech programme is designed to have a minimum of 180 academic credits and 2 additional pass/fail credits, for the award of the degree.

vii) The University follows credit System and credits are apportioned among the following knowledge segments.

Knowledge Segments	Credits
Basic Sciences	10 [8 Theory + 2 Labs]
Mathematics	16
Humanities	9
Basic Engineering	29 [25 Theory + 4 Labs]
Professional Engineering	89 [80 Theory +9 Labs]
Electives	15
Seminar	2
Comprehensive Viva	2
Design Project	2
Project	6
Total Academic Credits	180
Student's Activities	2 [Audit-Pass/Fail]
Total credits for BTech Degree	182

Credits are assigned to courses based on the following general pattern.

- One credit for each lecture hour per week for one semester
- One credit for each tutorial hour per week for one semester
- One credit for each laboratory/ practical session of 2 or 3 hrs, per week for one semester

viii) In a semester normally up to six lecture based courses and three laboratory/practical courses, carrying a maximum credit of 26, could be offered.

ix) University may allow students to transfer credits they have earned at other Universities and Academic Institutions, as per the guidelines given by the Academic Committee and approved by the Board of Governors.

x) Student Activities Points: To be an engineer capable of competing globally, in addition to technical knowledge and skills, students should develop excellent soft skills, nurture team work and leadership qualities and have an entrepreneurial and trail blazing outlook. To achieve this, in addition to academics, students are to actively engage in co-curricular and extracurricular activities. For such activities, points are allotted. On getting a minimum of 100 activity points the student passes the course and earns 2 credits which do not count for the CGPA but mandatory for the award of the degree. Listing of these activities and the maximum points that could be earned by engaging in them are given at the end of this document. Additional activities could be included in the list with the approval of the Academic Committee.

e) Curriculum, List of Courses and Syllabi

i) Every branch of study in the BTech programme will have a curriculum, list of courses, syllabi and course plans approved by the Academic Committee of the University.

ii) Courses are categorized as Core Theory (CT), Core Practice (CP) and Electives (EL).

iii) Each course has a course number. Course number includes the offering department or knowledge segment code and a three digit number. Knowledge segment code is used when a course is offered by any one or more departments with the same course content and syllabus. Details on this are given under Rule, RU-1.

f) Faculty Advisor/Counsellor

All students shall have faculty advisors whose role will be:-

- To guide and help students on academics
- To monitor their progress in academics and advise them
- To counsel them and hand-hold them in any difficulty

g) Course Registration and Enrolment

It is mandatory for students to register for the courses they want to attend in a semester. Students admitted freshly to the first semester, are advised to register for all courses listed for the semester. However they do not have to enrol for the semester. All other students are required to register at the end of the semester for the courses they desire to take in the coming semester. They have to enrol for these courses at the beginning of the new semester, based on the previous semester results. This allows them to make changes in the list of courses already registered for. Before enrolment, students should clear all dues including any fees to be paid and should not have any disciplinary issues pending. The dates for registration and enrolment will be given in the academic calendar. Any late registration or enrolment, allowed up to 7 working days from the stipulated date, will attract a late fee.

A student can withdraw from a course or substitute one already registered by another on valid reasons with the approval of the faculty advisor. However this has to be done within seven working days from the commencement of the semester. The maximum number of credits a student can register in a semester is limited to 26.

h) Course Completion and Earning of Credits

Students registered and later enrolled for a course have to attend the course regularly and meet the attendance rules of the university [RU-2] and appear for all the internal evaluation procedures for the completion of the course. Credits for the course are earned only on getting a pass grade in the composite evaluation.

i) Core Courses, Prerequisites and Electives

All courses listed in the curriculum, other than the electives, are core courses. Earning credits in the core courses is mandatory for the BTech degree. For electives, failure to earn credits does not necessarily require repeating the course. Instead another approved elective is permitted as a replacement course by the faculty advisor concerned. For some courses there could be a prerequisite course completion requirement for registration.

j) Summer Courses

Students who could not earn the required minimum credits at the end of the second or fourth semester have two options to continue with the studies. They may register again for the courses, when they are offered in the next academic year. However, there is also a provision to run summer courses in failed courses for these students who may register and attend the course and write the final examination. This provision is only for students who have got 45% or more in the internal evaluation for the courses they attended in the regular semester.

Students should have 75% attendance in the summer course to write the examination.

For the final grading their internal evaluation marks obtained in the regular semester in which they had undergone the course shall be applicable. Summer

courses are to be conducted for a minimum of 20 contact hours for each course. Summer courses are to be offered only at the end of the second and fourth semesters for the courses covered till that semester. They will be conducted either by all colleges or only by some, depending on the number of students registering for them. Details of summer courses planned will be announced by the colleges after the declaration of the even semester results. Final examination for summer courses will be conducted by the University. Based on the availability of faculty and the number of students opting for courses, it will be the prerogative of the colleges to decide on the summer courses to be offered.

Options for the fifth and higher semesters

For higher semesters, i.e., fifth semester onwards, summer courses are not offered. Failed students who have less than 45% marks in internal assessments have to register again for the course in the regular semester in which it is offered and complete the course as per the regulations and appear for the end semester examination. Failed students having 45% marks or more in internal assessments have the option to register again for the course as mentioned above or register only for the end semester examination without attending the course again. A separate registration format will be available for this. This option is available in all semesters.

k) Contact Courses

If a student has to earn credits only just for one course to qualify for the degree after completing eight semesters of study, the college concerned may offer a contact course on a written request by the student. The contact course is considered as fresh registration and is to be offered by the teacher concerned who shall conduct the internal evaluation procedures and allot the marks as per the regulations. Minimum contact hours for the course shall be 20. The final examination will be conducted by the college and shall be monitored by the external academic auditor. Question paper for the examination will be given by the Controller of Examination. No grade above C shall be given for a contact course.

l) Academic Assessment/Evaluation

Academic Evaluation of Courses

University follows a continuous academic evaluation procedure. Academic evaluation procedure and corresponding weights are as follows:

a) **For theory courses: $1/3^{rd}$ weightage for internal evaluation and $2/3^{rd}$ for end semester examination.**

For convenience, the maximum marks for internal evaluation and end semester examination for theory courses are fixed as 50 and 100 respectively.

Scheme of evaluation is as follows.

   i) Two internal tests each of 20 marks and of one hour duration. (Internally by the College)

ii) Tutorials/Assignments/Mini Projects carrying 10 marks. (Internally by the College)

iii) End Semester examination carrying 100 marks. (Conducted by the University)

All the above evaluations are mandatory requirements to earn credits.

Students who have missed either the first or the second test can register with the consent of the faculty and the Head of the Department (HOD) concerned for a retest which shall be conducted soon after the completion of the second test, but before the end semester examination. The re-test will cover both first and second test course plans. Those who have missed both the tests are not eligible to appear for the end semester examination.

However if one misses both tests due to medical reasons or other personal exigencies, based on genuine evidence, a single test of 2 hour duration for 40 marks will be conducted covering the whole syllabus, before the end semester examinations. Decision on this will be taken by the Principal and verified by the external academic auditor.

b) **For Laboratory/Practical /Workshop courses**

i)	Practical records/Outputs	60 marks	(Internally by the College)
ii)	Regular class Viva	10 marks	(Internally by the College)
iii)	Final written test/quiz	30 marks	(Internally by the College)

All the above assessments are mandatory to earn credits. If not, the student has to complete the course/assessments during his free time in consultation with the faculty members. On completion of these, grades will be assigned. In case the Practical /Laboratory/Workshop courses are not completed in the semester, grade I (incomplete) will be awarded against the course and the final grade will be given only after the completion of the course/assessments.

c) **Comprehensive Examination**

As students appear for placements from seventh semester onwards, comprehensive examination is to be completed in the sixth semester. This examination will be a written cum oral examination covering broadly all courses so far completed [RU-5].

d) **Seminar**

Each student has to give a seminar on a professional topic of current interest in consultation with the faculty member in charge of the seminar in the Department. The seminar will be evaluated based on RU-6

e) **Design Project**

Each student or a group of students has to take up a design project. The project topic could be arrived at in consultation with any faculty member in the department. The Evaluation of the project is to be done in two stages.

Two project progress evaluations each carrying 20 marks and a final report evaluation and presentation of the project for 60 marks. The project supervisor and two other faculty members from the same or any other department, nominated by the Head of the Department form the evaluation board.

f) **Final Semester Project**

Students, either individually or in a small batch not exceeding four, have to do a project approved by their faculty supervisor. Evaluation scheme is given below:

i)	Two progress assessments	20% by the faculty supervisor/s
ii)	Final Project Report	30% by the Assessment Board
iii)	Project presentation and Viva	50% by the Assessment Board

If the project work is not completed satisfactorily, the student has to put in more work and appear again for assessment on a specified date, not earlier than one month after the first evaluation. If the student fails in the project, a fresh registration for the project for one semester is mandatory.

The project assessment board shall consist of the following members.

Chairman	Head of the Department
Members	Project supervisor/s of the student
	One faculty member from the Department
	One faculty member from a sister Department

An external expert, either from an academic/research institute or industry

m) Eligibility to Continue

A student has to earn a minimum number of credits in a semester to be eligible to register for the new courses offered in the next semester. In odd semesters if this requirement is not met, the student is to be forewarned and allowed to continue to the next even semester. However at the end of even semesters this requirement will be strictly implemented. Summer courses are offered to those who do not satisfy this norm after the 2nd as well as the 4th semesters. Students who do not meet this requirement are not permitted to register for new courses in the higher semesters. They have to register for the failed courses in normal semesters in which they are offered subject to the limitations imposed by the ordinances and course timetable.

Action plan, for dealing with course arrears in theory courses at the end of each semester to continue with the programme, is given below. Faculty advisors shall monitor advice and support the students in this. Students should be informed about the minimum cumulative credits requirement to register for higher semester courses.

Eligibility Criteria for Registering for Higher Semester Courses

Semester	Allotted Credits	Cumulative Credits	Minimum cumulative credits required to register for courses in higher semesters
First	24	24	Not insisted
Second	23	47	35
Third	24	71	Not insisted
Fourth	23	94	80
Fifth	23	117	Not insisted
Sixth	23	140	126
Seventh	22	162	Not insisted
Eighth	18	180	

n) Course Committees and Class Committees

These committees are to be in place in each college affiliated to the University.

(a) **Course Committee** This is for common courses (electives are excluded) offered to students admitted for the BTech programme irrespective of their branch of study. Each of such courses will have a course committee constituted by the Principal of the college.

The chairman of the course committee shall be a senior faculty member not offering the course. Members:

  i) All teachers offering the course.
  ii) Four student representatives nominated by the Principal.

(b) **Class Committee**

Beginning from the third semester, all branches of study will have class committees for every semester constituted by the respective Heads of Departments.

The chairman of the committee shall be a senior faculty member who does not offer any course during that semester. Members:

  i. All faculty members teaching courses in that semester.
  ii. Two student representatives nominated by the head of the Department.

The course committees and class committees shall meet at least thrice in a semester . the first at the beginning of the semester, the second and the third after the first and the second internal tests respectively. Both committees should monitor the conduct of the courses, adherence to the course plan and time schedule, completion of the syllabus, standards of internal tests, evaluation process and difficulties faced by the students and take suitable remedial actions at the appropriate time. At the end of the semester, the committee should meet without student representatives

to review the conduct of the course and finalize the internal assessment marks and approve them.

o) Eligibility for Writing the End Semester Examination and for Grading

Students with 45% or more marks in internal assessment in a course shall only be permitted to write the end semester examination in that course. Those with less than 45% internal marks shall be awarded FE grade and have to register for the course again.

A student should have a minimum of 45% marks in the end semester examination to be eligible for grading in a course. Otherwise he/she will be considered to have failed in the course and an F grade will be awarded.

Internal marks given to the students who got 45% marks or more in the end semester examination shall be regulated in line with the end semester examination performance. Internal mark percentage shall not exceed 25% over the end semester mark %.

(For example if the end semester mark % is 45, then the maximum internal mark % is to be 45+25 = 70 %.)

In case the student writes the supplementary examination, the mark got in that will be taken into consideration for regulating the internal marks.

Those who have more than 45% marks in the end semester examination are awarded the grade based on both internal assessment and end semester examination marks. A student earns credits for a course if the grade is P or above.

p) Award of Grades

Grading is based on the % marks obtained by the student in a course, as given in 7q. The grade card will only give the grades against the courses the student has registered.

Semester grade card will give the grade for each registered course, Semester Grade Point Average (SGPA) for the semester as well as Cumulative Grade Point Average (CGPA).

q) Grades and Grade Points

Grades and Grade Points as per UGC guidelines is to be followed by the University.

Grades		Grade Point (GP)	% of total marks obtained in the course
O	(Outstanding)	10	90% and above
A+	(Excellent)	9	85% and above but less than 90%
A	(Very Good)	8	80% and above but less than 85%
B+	(Good)	7	70% and above but less than 80%
B	(Above Average)	6	60% and above but less than 70%
C	(Average)	5	50% and above but less than 60%
P	(Pass)	4	45% and above but less than 50%
F	(Fail)	0	Less than 45%
FE	- - -	0	Failed due to eligibility criteria [7-o]
I	- - -	- - -	Course Incomplete

SGPA and CGPA are calculated based on the above grading norms and are explained at the end of this document.

r) Academic Auditing

The University shall have a detailed academic auditing procedure in place comprising of an internal academic auditing cell within the colleges and an external academic auditing for each college. The internal academic auditing cell in each college shall oversee and monitor all the academic activities including all internal evaluations and examinations. This cell is to prepare academic audit statements for each semester at regular intervals. These reports are to be presented to the external academic auditor approved by the University, who will use it as a reference for his independent auditing and for the final report to the University.

Academic auditing shall cover:

(a) Course delivery covering syllabus, adherence to course plan, quality of question papers for internal examinations, internal evaluation, laboratory experiments, practical assignments, mini projects and conduct of practical classes and their evaluation.

(b) Co-curricular and Extra-curricular activities available for students, their organization and the mechanism of monitoring of activities points earned by the students.

(c) Academic functioning of the college encompassing students, faculty and college administration covering punctuality, attendance, discipline, academic environment, academic accountability, academic achievements and benchmarking.

s) Break of Study A student may break study for a maximum duration of two semesters, preferably in one academic year, to initiate start-up ventures, product development etc. This is however permitted only on successfully completing the courses listed out in the first four semesters. Request for this with ample evidence to the seriousness of the venture should be forwarded to the college principal for approval. [RU-3]

Break of study on serious health reasons is also permitted with the approval of the college Principal. [RU-3]

All such cases of break of study are to be reported to the University. In both the cases, the maximum duration for completing the BTech programme will still be twelve semesters.

t) Revaluation and Grade Improvement

There is no provision for revaluation of the end semester answer books or for improving the grade.

However, the student is permitted to check the answer books of the end semester examination after the results are declared. Any discrepancy in evaluation could be brought to the notice of the teacher concerned who will initiate appropriate action on this. The decision of the Controller of Examination shall be final on this.

u) Grade Cards

Students who have written the end semester examination will be given the grade cards for the registered courses, in every semester by the respective colleges. On earning the required credits for the degree, a consolidated grade sheet for the BTech programme will be given by the University.

v) BTech Degree

BTech degree will not have any classifications like distinction or first class.

w) BTech (Honours)

Accredited departments in institutions, having at least two post graduate programmes, may offer BTech (Honours). It should be noted that students with a CGPA above 8 at the end of the fourth semester and having no credit arrears only are eligible for this option. As only selected institutions may have this provision, students cannot demand this or move later to an institute where this is available. Students have to earn 12 additional credits to get BTech (Honours). Furthermore their CGPA at the end of the programme should be 8 or higher. Those who opted for BTech (Honours) but unable to earn the required additional credits in 8 semesters or whose final CGPA is less than 8 shall automatically fall back to the BTech programme. However, additional course

credits and the grades thus far earned by them will be shown in the grade card but not included for the CGPA.

x) Academic Discipline and Malpractices in Examinations

Every student is required to observe discipline and decorous behaviour. Any act of indiscipline, misbehaviour and unfair practice in examinations will be referred to the Disciplinary Action Committee (DAC). Malpractices in examinations shall be viewed seriously and any such incident observed or reported by a faculty member or an invigilator associated with the examinations shall be reported to the Principal who in turn shall refer it to DAC. On the basis of the report and evidence available or gathered, DAC shall immediately initiate an enquiry giving the concerned student a chance to explain his/her case. Based on this the committee shall recommend the course of action in line with the guidelines formulated for this by the Controller of Examination of the University and forward it to the Principal for action.

Actions are to be based on the severity of the offence and are to be dealt with, on a course basis. Guidelines on this shall be given by the Controller of Examination which is to be followed by the Disciplinary Action Committee of the college.

The student may appeal to the Grievances and Appeals Committee for a relook on the matter. Based on the committeefs report, the Principal shall take a final decision on the matter.

DAC shall be headed by a department head and shall have three other faculty members drawn from different departments as members. In case of malpractices in end semester examinations, the report given by the college DAC and the action taken by the Principal shall be intimated to the Controller of Examination of the University.

y) Students Welfare Committee

Every college shall have a Student's Welfare Committee, constituted by the Principal of the college. This committee shall have at least three faculty members as members and the chairman shall be a senior faculty member in the rank of a Professor. This committee is entrusted with the task of looking after the welfare of the students by taking appropriate steps with the concurrence of the principal.

z) Grievances and Appeals Committee

Each college should have a Grievances Redress Committee constituted by the Principal to address the grievances of the students and to consider their appeals on any decisions made by the college. This committee consisting of at least three faculty members and chaired by a senior professor shall look into students grievances and appeals and give its recommendations to the Principal for action.

8 Amendment to Ordinance/Regulations/Rules

Notwithstanding all that has been stated above, the University has the right to modify any of the above Ordinance/Rules/regulations from time to time.

Rules

RU-1 Course Code and Course Number

Each course is identified by a course code and a three digit number. The two letter code refers to the department offering the course or the knowledge segment of the course. The knowledge segment code is used when the course is to be offered by different departments either individually or together but having the same syllabus and course plan.

Course Number: MA 101 - This refers to a course in Mathematics with the course number 101.

Course Number: BE 102 - This refers to a course in Basic Engineering.

Course Number is a three digit number and the first digit refers to the Academic year in which the course is normally offered, i.e. 1, 2, 3, or 4 for the BTech programme of four year duration. Of the other two digits, the last digit identifies whether the course is offered normally in the odd (odd number), even (even number) or in both the semesters (zero). The middle number could be any digit.

MA 101 is a course in Mathematics offered in the first semester.

EE 344 is a course in Electrical Engineering offered in the sixth semester.

PH 110 is a course in Physics offered both the first and second semesters.

BE 102 is a course in Basic Engineering offered by one or many departments.

These course numbers are to be given in the curriculum and syllabi.

RU-2 Attendance

Attendance is marked for each course. While 75% attendance is mandatory for writing the end semester examination in that course, students are expected to have 100% attendance. However under unavoidable circumstances students are permitted to take leave. Leave is normally sanctioned for any approved activity taken up by students outside the college covering sports and other extracurricular activities. Leave is also permitted on medical grounds or on personal exigencies. Leave of absence for all these is limited to 25% of the academic contact hours for the course.

In case of long illness or major personal tragedies/contingencies the college Principal can relax the minimum attendance requirement to 60%, to write the end semester examination. This is permitted for one or more courses registered in the semester. Principal shall keep all records which

led to his decision on attendance, for verification by the Academic Auditor. However this concession is applicable only to any two semesters during the entire programme. In case of prolonged illness, break of study is permitted as per RU-3.

RU-3 Break of Study

A student is permitted to have a break of study.

i) In case of accident or serious illness needing prolonged hospitalization and rest.

ii) In case the student has a bright idea and would like to initiate a start-up venture or develop a new product.

iii) In case of any personal reasons that need a break in study.

For break of study due to illness, student should submit all necessary medical reports together with the recommendation of the doctor treating him giving definite reasons for break of study and its duration. Before joining back the student should submit the fitness certificate from the doctor who treated him.

Students who want to initiate a start-up venture or a product development, have to submit a project report, clearly indicating the purpose, action plan, technical details, funding details and future plans to the college Principal. The Principal shall evaluate the proposal by constituting an expert team consisting of a technocrat and a bank executive and take an appropriate decision based on the team's recommendation. In the semester system followed by the University, break of study for an academic year is preferred over a semester break.

Students who want a break in study due to personal reasons shall convince the Principal on the genuine need for it by giving authentic evidence for the same.

RU-4 Leave of Absence

Students who want to take leave under RU-2 have to submit a leave letter to the teacher conducting the course. This letter is to be forwarded to the Head of the Department with recommendation of the teacher indicating the total leave of absence the student has so far availed. Leave is to be sanctioned by the Head of the Department. For medical leave over three days, medical certificate indicating the need for leave is required. After any medical leave exceeding five instruction days, on rejoining, the student has to produce the fitness certificate given by the doctor.

RU-5 Comprehensive Examination

This examination consists of two parts. Part one a written test and the other an oral one. The written examination shall be objective type of 1 hour duration and shall have 50 marks and is to be conducted by the concerned

department. Chairman of the oral examination board shall be a senior faculty in the department and the members include two other faculty members of the department and an external expert from another academic institute or an industry. Oral examination shall carry 50 marks. Comprehensive examination may be conducted any time during the 6th semester with sufficient notice given to the students.

RU-6 Seminar

Students have to prepare a detailed report on the topic of the seminar and submit it to the teacher concerned. The seminar is to be of 20 minutes duration with another 5 minutes given for questions and answers. All students in the class have to attend the seminar without fail. Evaluation will be based on the report, seminar presentation as well as on the ability of the student to answer the questions put forward. Faculty member in charge of the seminar and another faculty member in the department nominated by the Head of the Department are the evaluators for the seminar. Distribution of marks for the seminar is as follows.

Marks for the report: 30%

Presentation: 40%

Ability to answer questions on the topic: 30%

RU-7 Ragging

Ragging of any nature is a criminal and non-bailable offence. Involvement in ragging shall lead to stringent punishment, including imprisonment as per the law of the land. A student, whose involvement in ragging is established, shall be summarily dismissed from the college. Each student of the Institute, along with his/her parent, is required to give an undertaking in this regard and the same is to be submitted at the time of registration.

9 Addendum:

1. Calculation of SGPA/CGPA

Semester Grade Point Average (SGPA) and Cumulative Grade Point Average (CGPA) are calculated as follows.

$$\text{SGPA} = \frac{\sum(C_i \times GP_i)}{\sum C_i}$$

where C_i is the credit is the credit assigned for a course and GP_i is the grade point for that course. Summation is done for all courses registered by the student in the semester. Here the failed courses are also accounted.

$$\text{CGPA} = \frac{\sum(C_i \times GP_i)}{\sum C_i}$$

where C_i is the credit assigned for a course and GP_i is the grade point for that course. Summation is done for all courses registered by the student during

all the semesters for which the CGPA is needed. Here the failed courses are also accounted. CGPA of all courses passed may also be given. CGPA for the BTech programme is arrived at by considering all course credits that are needed for the degree and their respective grade points.

2. Student Activity Points

Activities that a student can engage in and the maximum quantum of points that can be earned from them are listed below.

i) National Level Activities

Code	Name of activity	Max. Activity Points	Minimum Duration
NA1	N S O	70	Two Semesters
NA2	N C C	70	Two Semesters
NA3	N S S	70	Two Semesters

ii) College Level Activities

CA1	Active Member/Office bearer of Professional Societies (Student Chapters)	30/ 40	Four Semesters
CA2	Elected Office bearer of Student forums	30	Two semesters
CA3	Member/Captain-College Athletic/ Games teams	20/ 30	Two Semesters
CA3	Executive Member of Student Clubs	20	Two Semesters
CA4	Volunteer for important College functions	20	Two Semesters
CA5	Committee member/ Organizer of Tech Fest/Cultural Fest/ Conference	20/ 30	Two Semesters
CA6	Placed within top three in Paper presentation/debate/ cultural competitions etc	30	
CA7	Placed within top three in State level Sports/Games/	30	

Additional 20 points are given for CA3/CA7 if the achievement is at the national level.

iii) Entrepreneurship

EA1	Any Creative Project execution	40
EA2	Awards for Projects	60
EA3	Initiation of Start-ups	60
EA4	Attracted Venture Capital	80
EA5	Filed a Patent	80
EA6	Completed Prototype Development	80

iv) Self Initiatives

SA1	Attend a National Conference	20
SA2	Attend an Int. National Conference	30
SA3	Published/ got an Award for a Technical paper.	30/40
SA4	Organiser of student level Technical Conf/Competition	30
SA5	Foreign language skills	50
SA6	Online courses taken & completed	50

Thiruvanthapuram
26-6-2015   Registrar

14

APJAKTU Ordinance for MTech

Kerala Technological University
CET Campus, Thiruvananthapuram, Kerala-695016
Ordinance for Master of Technology - MTech[1]

In exercise of the Powers conferred under Clause 44 of the Ordinance, the Executive Committee of the University hereby promulgate the Ordinance for the University for the Academic Year 2015-2016. The Academic ordinance will come into effect from the date of publication in the Gazette.

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[1]The contents of this section is intended as a verbatim reproduction of this Ordinance the original of which is available at `https://ktu.edu.in/data/KTU%20-MTech%20ordinance.pdf`. The original may be consulted in case of any doubts about any of the provisions of the ordinance.

    iii) Academic Calendar

    iv) Eligibility to continue with the programme

    v) Seminar

    vi) Project work

    vii) Faculty Advisor, Class Committee

    viii) Award of Grades

    ix) Grades and Grade Points

    x) Academic Auditing

    xi) Revaluation and Grade Improvement

    xii) Grade Cards

    xiii) Academic Discipline and Malpractices in Examinations

    xiv) Student's Welfare Committee

    xv) Grievances and Appeals Committee

    xvi) Attendance

    xvii) Leave of Absence

    xviii) Project Evaluation

    xix) Project Work outside the College

    xx) Ragging

    xxi) Calculation of SGPA/CGPA

O-1 Admission to the MTech Programme

Candidates who have been awarded or qualified for the award of the Bachelors degree in Engineering/Technology, from an Institution approved by AICTE are eligible for admission to the MTech Programme. Eligibility of candidates having MCA/MSc qualifications will be decided from time to time by following the guidelines issued by All India Council for Technical Education (AICTE) and the Government of Kerala and notified separately. Other important eligibility criteria are as listed out by the Director of Technical Education with the approval of the Government of Kerala.

O-1.1 Candidates qualified in Graduate Aptitude Test in Engineering (GATE) and admitted to the M Tech programme are eligible to receive Half Time Teaching Assistantship (HTTA) as per the rules of the All India Council for Technical Education (AICTE)/Ministry of Human Resource Development (MHRD).

O-1.2 Sponsored candidates from Industries, R&D organizations, National Laboratories as well as Educational Institutions, with a bachelor's degree in engineering are eligible for admission to the MTech programme.

O-1.3 Foreign nationals whose applications are received through Indian Council of Cultural Relations, Government of India are also eligible for admission to the MTech programme.

O-1.4 Announcements for MTech Programmes will be made by the DTE, Government of Kerala.

O-1.5 Selection of candidates for the MTech programme will be done centrally or monitored by the Directorate of Technical Education as per the guidelines given on this by the Government of Kerala.

O-1.6 The number of candidates to be admitted to each MTech stream will be as per the approval of the University which shall be based on decision on this given by the All India Council for Technical Education.

O-1.7 Admission will be complete only on meeting all the other requirements mentioned in the letter of admission and on payment of the fees.

O-1.8 Candidates who have the Associate Membership of Professional Bodies that are approved by the University and have qualified in GATE shall also be eligible for admission to the MTech programme.

O-1.9 The reservation policy of the Government of Kerala and the Government of India shall be followed in admission to the MTech programme.

O-1.10 All admission will be governed by the procedure laid down for this by the Director of Technical Education, Kerala and the Government of Kerala.

O-1.11 Notwithstanding all that is stated above, the admission policy may be modified from time to time by the University, particularly to confirm to directions from the Government of Kerala and the Government of India.

O-2 Duration of the Programme

The normal duration of the MTech programme, including the project work, shall be four semesters.

O-3 Post Graduate Programme Clusters

The University shall identify clusters of colleges offering MTech programmes in different streams and allow them to formulate procedures for the smooth conduct of all academic activities associated with the MTech programme, in line with the ordinances/regulations of the University. These clusters shall have academic autonomy, regulated by a Cluster level Graduate Committee [CGPC] consisting of all the principals of the colleges in the cluster. The Chairman of CGPC shall be an eminent academician nominated by the Vice Chancellor. The CGPC will be responsible for all academic matters including the curriculum, syllabi, course plans, internal evaluations, end semester examinations, and grading for all streams

of MTech programme offered by the colleges in the cluster. The CGPC can formulate additional rules for other academic aspects that are not covered by this Ordinance.

O-4 Specialization Streams in MTech Programme

The MTech programme streams offered by each cluster as well as the eligibility of candidates of different BTech. branches or having other qualifications, for each of them shall be approved by the CGPC.

O-5 MTech Programme Structure

   i) The MTech programme in all streams of specialization will be structured on a credit based system following the semester pattern with continuous evaluation.

  ii) The University permits regular as well as external registration (part time) for those in employment.

 iii) The duration for the MTech programme in all streams of specialization will normally be 4 semesters. The maximum duration is 6 semesters.

 iv) For students admitted on external registration, the normal duration will be 6 semesters. Here the maximum duration is 7 semesters.

  v) The University permits a regular student to change over to external registration during the programme, under specific circumstances like initiating a start up venture or to take up a job.

 vi) Each semester shall have a minimum of 72 instruction days followed by the end semester examination.

 vii) A common course structure for the MTech programmes in all streams of specialization is to be followed and consists of the following:

- Core Courses
- Elective Courses
- Laboratory Courses
- Seminar
- Project

viii) Every stream of specialisation in the MTech programme will have a curriculum and syllabi for the courses. The curriculum should be so drawn up that the minimum number of credits for successful completion of the MTech programme in any stream of specialization is not less than 64 and not more than 68.

 ix) Credits are assigned as follows, for one semester:

a) 1 credit for each lecture hour per week

b) 1 credit for each tutorial hour per week

c) 1 credit for each laboratory/practical of 2 or 3 hours per week

d) 2 credits for the seminar

e) 2 credits for Mini-Project

f) 6 credits for Project in the 3rd Semester

g) 12 credits for Project in the 4th Semester

x) A pass is mandatory in all core courses. In case of failure in an elective course, there is the provision to choose another elective listed in the curriculum.

xi) On their request, CGPC shall examine the academic records and permit candidates with BTech (Honours) who have earned credits for any relevant graduate level courses to transfer credits towards the MTech programme. Candidates who received BTech (Honours) degree just prior to their MTech admission are permitted to transfer up to 9 credits. For those who received the BTech (Honours) degree within three years prior to their MTech admission are permitted to transfer up to 6 credits.

xii) The maximum number of lecture based courses and laboratory courses in any semester shall not exceed 5 and 2 respectively. The maximum credits in a semester shall be 23.

xiii) **Extension of Programme Duration**

The normal duration of the programme shall be four semesters.

In case of prolonged illness or other personal exigencies, the university may allow a student who has earned credits for at least one semester, to extend the programme up to the maximum duration of six semesters.

Students who have earned credits for the courses listed in the first two semesters are permitted to transfer their registration as external candidates if they take up a job. However, they have to complete the programme within six semesters.

O-6 Course Registration and Enrolment

All students have to register for the courses they desire to attend in a semester. Students admitted to the first semester are advised to register for all courses offered in the first semester. They do not have to enrol for the semester. All other students are required to register at the end of the semester for the courses they desire to take in the next semester. Later they have to enrol for these courses in the new semester based on the results in the previous semester. This allows them to make minor changes in the list of courses already registered for. Before enrolment, students should clear all dues including any fees to be paid and should not have any disciplinary proceedings pending. The dates for registration and enrolment will be given in the academic calendar. Any late registration or enrolment,

allowed only up to 7 working days from the commencement of the semester, will attract a late fee.

A student can drop a course or substitute one already registered for by another, for valid reasons with the approval of the faculty advisor. However this has to be done within 7 working days from the commencement of the semester. The maximum number of credits a student can register for in a semester is limited to 24.

O-7 Recommended Credit distribution over the semesters

First Semester   : 20 to 23 credits

Second Semester   : 18 to 19 credits

Third Semester   : 14 credits

Fourth Semester   : 12 credits [Project]

O-8 Academic Assessment/Evaluation

The University follows a continuous academic evaluation procedure. The Assessment procedure and corresponding weights recommended are as follows:

a) For Theory Courses

   i) Two internal tests, each having 15%

   ii) Tutorials/Assignments/ Mini projects having 10

   iii) End Semester examination having 60%

All the above are mandatory requirements to earn credits. Students who have missed either the first or the second test can register with the consent of the faculty member and the Head of the Department concerned for a re-test which shall be conducted soon after the completion of the second test and before the end semester examination. The re-test will cover both the first and the second test course plans. If a student misses both the scheduled tests, there is no provision for any retests and zero marks will be given for each test. In case of serious illness and where the attendance is above 70% the Principal may permit the conduct of the tests for a student based on his application and other relevant medical reports. Such cases are to be reported to CGPC.

b) For Laboratory/Practical Courses

   (a) Practical Records /outputs 40%

   (b) Regular Class Viva-Voce 20%

   (c) Final Test (Objective) 40%

O-9 Course Completion and earning of credits

Students registered and later enrolled for a course have to attend the course regularly and meet the attendance rules of the University and appear for all internal evaluation procedures for the completion of the course. However, earning of credits is only on completion of the end semester/supplementary examination and on getting a pass grade. Students, who had completed a course but could not write the end semester/supplementary examination for genuine health reasons or personal exigencies, if otherwise eligible are permitted to write the semester examination, at the next opportunity and earn credits without undergoing the course again. Failed candidates having more than 45% marks in their internals can also avail of this option. However, those who are not eligible to appear for the end semester examination have to register and undergo the course again, whenever it is offered, to earn the credits.

O-10 End Semester and Supplementary Examinations

At the end of the semester, the end semester examination will be conducted in all courses offered in the semester and will be of three hours duration unless otherwise specified. Supplementary examinations are to be conducted for eligible candidates registered for them, before the commencement of the next semester.

O-10.1 Eligibility to write the End Semester Examination and Grading

Eligibility criteria to appear for the semester examination are the attendance requirements in the course, 45% or more marks in the internal evaluation and having no pending disciplinary action. The minimum attendance for appearing for the semester examination is 85% in the course. In case of serious illness there is a relaxation for attendance [O-14.xvi]. Those who do not meet the eligibility criteria shall be awarded an FE Grade and have to register again for the course.

A student should have a minimum of 45% marks in the end semester examination to be eligible for grading in a course. Otherwise he/she will be considered to have failed in the course and an F grade will be awarded.

O-10.2 Eligibility to write the Supplementary Examination

Only failed students and those who could not write the semester examination due to health reasons or other personal exigencies that are approved by the Principal can register for the supplementary examination provided they meet the eligibility requirements given in O-10.1. Grades awarded in the supplementary examination will be taken as the semester grades in these courses.

O-11 Conduct of End Semester Examination

The Clusters will prepare the question papers, conduct the end semester examinations, organize the valuation of the answer scripts, finalise the results and submit

it to the University, as per the academic calendar.

O-12 Award of MTech Degree

The award of the MTech degree shall be in accordance with the Ordinances and Procedures given by the University.

A student will be eligible for the award of MTech degree of the University on meeting the following requirements:

i) Registered and earned the minimum credits, as prescribed in the curriculum, for the stream of specialization.

ii) No pending disciplinary action.

O-13 Amendments to Ordinance

Notwithstanding all that has been stated above, the University has the right to modify any of the above provisions of the ordinance from time to time.

O-14 Miscellaneous provisions

i) Stream of Specialization

The streams of specializations are to be in line with the approval given on this by the All India Council for Technical Education.

ii) Language of Instruction

Unless otherwise stated, the language of instruction shall be English.

iii) Academic Calendar

The University shall publish in its website the academic calendar for every academic semester indicating the date of commencement of the semester as well as instruction. It will specify the course registration and enrolment dates, the schedule for mandatory internal tests for theory courses, dates by which laboratory/practical evaluations are to be completed, date for finalization of internal marks, last instruction day in the semester, planned schedule of end semester examinations and result declaration as well as approved holidays falling within the semester. Schedules for the supplementary examinations and result declaration dates are to be included in the calendar. Additionally colleges may publish their academic calendar, in line with the University academic calendar, indicating other schedules and events they plan to conduct during the semester.

iv) Eligibility to continue with the programme

A student has to earn a minimum number of credits in a semester to register for higher semester courses. This should be at least 2/3rd of the credits for the courses listed in for the semester. CGPC shall formulate the rules based on this and spell out the procedure to proceed with the programme.

Failed students who have more than 45% marks in the internal course evaluation are permitted to write the semester examination without registering and undergoing the course. Those with less than 45% in internal course evaluation have to register again for the course, attend the classes and earn the credits.

v) Seminar

Students have to register for the seminar and select a topic in consultation with any faculty member offering courses for the programme. A detailed write-up on the topic of the seminar is to be prepared in the prescribed format given by the Department. The seminar shall be of 30 minutes duration and a committee with the Head of the department as the chairman and two faculty members from the department as members shall evaluate the seminar based on the report and coverage of the topic, presentation and ability to answer the questions put forward by the committee.

Suggested evaluation procedure:

Faculty member in charge of the seminar and another faculty member in the department nominated by the Head of the Department are the evaluators for the seminar. Distribution of marks for the seminar is as follows.

- Marks for the report: 30%
- Presentation: 40%
- Ability to answer questions on the topic: 30%

vi) Project work

Project work is spread over the third and fourth semesters. Project work is to be evaluated both in the third and the fourth semesters. Based on these evaluations the grade is finalised only in the fourth semester. Project evaluation weights shall be as follows: For convenience the marks are allotted as follows.

- Total marks for the Project: 150
- In the 3rd Semester: 50 marks

    Progress evaluation by the Project Supervisor   : 20 Marks

    Presentation and evaluation by the committee   : 30 Marks

- In the 4th Semester: 100 marks

    Project evaluation by the supervisor/s   : 30 Marks

    Presentation & evaluation by the Committee   : 40 Marks

    Evaluation by the External expert   : 30 Marks

vii) Faculty Advisor, Class Committee

a) Faculty Advisor

The Head of the Department offering the MTech programme shall nominate senior faculty members as faculty advisors who shall advise the students in academic matters and support them in their studies. Their role is to help the students in academics and personal difficulties related to studies. A faculty advisor may support a group of students in a semester.

b) Class Committee

Class Committees are to be in place for all MTech programs in the college.

All MTech streams of specialization will have class committees for each semester, constituted by the respective Heads of Departments. The Chairman of the committee shall be a senior faculty member who does not offer any course for that stream in that semester.

Members:

   i) All faculty members teaching courses for the stream in that semester.

  ii) Two student representatives nominated by the Head of the Department, from the stream.

Class committees shall meet at least thrice in a semester - one in the beginning and one around the middle of the semester and one at least two weeks before the semester examinations. These committees should monitor the conduct of the courses, adherence to the course plan and time schedule, completion of the syllabus, standards of internal tests and evaluation process and address the difficulties faced by the students and take suitable remedial actions at the appropriate time. Before the end semester examination, the committee should meet without the student representatives and finalise the internal marks. A report on the student performance in each course should be prepared and submitted to the CGPC by the colleges.

viii) Award of Grades

Grading is based on the marks obtained by the student in a course. [O-14 ix] The grade card will only show the grades against the courses the student has registered.

The semester grade card will show the grade for each registered course, Semester Grade Point Average (SGPA) for the semester as well as Cumulative Grade Point Average (CGPA).

ix) Grades and Grade Points

Grades and Grade Points as per UGC guidelines are to be followed by the University

Grades	Grade Point (GP)	% of total marks obtained in the course
O	10	90% and above
A+	9	85% and above but less than 90%
A	8	80% and above but less than 85%
B+	7	70% and above but less than 80%
B	6	60% and above but less than 70%
C	5	50% and above but less than 60%
P	4	45% and above but less than 50%
F	0	Less than 45%
FE	0	Failed due to eligibility criteria [0.10.1]
I	- - -	Course Incomplete

Grade Point Average (GPA) and Cumulative Grade Point Average (CGPA) are calculated based on the above grading norms and are explained at the end of this document.

x) Academic Auditing

The University shall have a detailed academic auditing procedure in place comprising of an internal academic auditing cell within the college and an external academic auditing for each college. The internal academic auditing cell in each college shall oversee and monitor all academic activities including all internal evaluations and semester examinations. This cell is to prepare academic audit statements for each semester at regular intervals of four weeks of instruction. These reports are to be presented to the external academic auditor appointed by the University, who will use it as a reference for his independent auditing and for the final report to the University.

Academic auditing will cover:

  i) Course delivery covering syllabus, adherence to course plan, quality of question papers for internal examinations, internal evaluation, laboratory experiments, practical assignments, mini projects, conduct of practical classes and their evaluation. Semester examination and academic performance of the students.

  ii) Co-curricular and Extra-curricular activities available for students, and their organization.

iii) Academic functioning of the college encompassing students, faculty and college administration covering punctuality, attendance, discipline, academic environment, academic accountability, academic achievements and benchmarking.

xi) Revaluation and Grade improvement

There is no provision for revaluation of the semester answer books or for improving the grade.

Students are permitted to check the answer books of the semester examination, after the results are declared. Any discrepancies in evaluation could be brought to the notice of the teacher concerned who will initiate appropriate action on this and report to the CGPC for a final decision on this.

xii) Grade Cards

Students who have written the semester examination will be given the grade cards for the registered courses, in every semester by the respective colleges. On earning the required credits for the degree, a consolidated grade sheet for the MTech programme will be issued by the University on the recommendation of the respective CGPC.

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Every college shall have a Students Welfare Committee, constituted by the Principal of the college. This committee shall have at least three faculty members as members and the chairman shall be a senior faculty member in the rank of a Professor. This committee is entrusted with the task of looking after the welfare of the students by taking appropriate steps with the concurrence of the principal.

xv) Grievances and Appeals Committee

Each college should have a Grievances Redress Committee constituted by the Principal to address the grievances of the students and to consider their appeals on any decisions made by the college. This committee consisting of at least three faculty members and chaired by a senior professor shall look into students grievances and appeals and give its recommendations to the Principal for action.

xvi) Attendance

Attendance is marked for each course. 85% attendance is mandatory for writing the semester examination in a course. Students who get Part Time Teaching Assistantship (PTTA) or Scholarships from the Central or State Governments or any other agencies are expected to have 100% attendance. However, under unavoidable circumstances students are permitted to take leave. Leave is normally sanctioned for any approved activity taken up by students outside the college covering sports and other extra-curricular activities. Leave is also permitted on medical grounds or on personal exigencies. Leave of absence for all these is limited to 15% of the academic contact hours for the course. In case of long illness or major personal tragedies/exigencies the Principal can relax the minimum attendance requirement to 70%, to write the semester examination. This is permitted for one or more courses registered in the semester. The Principal shall keep all records which led to his decision on attendance, for verification by the Academic Auditor. However this concession is applicable only to any one semester during the entire programme. In case of prolonged illness, break of study is permitted up to two semesters which could extend the programme up to six semesters, the maximum permitted by the regulations.

xvii) Leave of Absence

Students who desire to take leave have to apply for it to the teacher conducting the course. This application together with any supporting documents like doctors certificate or other relevant information is to be forwarded to the Head of the Department with the recommendation of the teacher indicating the total leave of absence the student has so far availed. Approval for leave is to be given by the head of the department. After any prolonged medical leave, normally exceeding five instruction days, on rejoining, the student has to produce the fitness certificate given by the doctor.

xviii) Project Evaluation

Normally students are expected to do the project within the college. However they are permitted to do the project in an industry or in a government research institute under a qualified supervisor from that organization. Progress of the project work is to be evaluated at the end of the third semester. For this a committee headed by the head of the department with two other faculty members in the area of the project and the project supervisor/s. If the project is done outside the college, the external supervisor associated with the student shall also be a member of the committee.

Final evaluation of the project will be taken up only if the student has earned all course credits listed in the first three semesters. Project evaluation shall be done by the same committee mentioned above with an external expert, either from an academic R&D organization or from Industry, as an additional member. Final project grading shall take into account the progress evaluation done in the third semester and the project evaluation in the fourth semester. If the quantum of work done by the candidate is found to be unsatisfactory, the committee may extend the duration of the project up to one more semester, giving reasons for this in writing to the student. Normally further extension will not be granted and there shall be no provision to register again for the project.

xix) Project work outside the College

While students are expected to do their projects in their colleges, provision is available for them to do it outside the college either in an industry or in an institute of repute. This is only possible in the fourth semester and the topic of investigation should be in line with the project part planned in the 3rd semester. Student should apply for this through the project supervisor indicating the reason for this well in advance, preferably at the beginning of the 3rd semester. The application for this shall include the following:

Topic of the Project: Project work plan in the 3rd Semester:
Reason for doing the project outside:
Institution/Organization where the project is to be done:
External Supervisor
Name:
Designation:
Qualifications:
Experience:

Letter of consent of the External Supervisor as well as from the organization is to be obtained.

This application is to be vetted by the head of the department and based on the decision taken the student is permitted to do the project outside the college.

xx) Ragging

Ragging of any nature is a criminal and non-bailable offence. Involvement in ragging shall lead to stringent punishment, including imprisonment as per

the law of the land. A student, whose involvement in ragging is established, shall be summarily dismissed from the college. Each student of the Institute, along with his/her parent, is required to give an undertaking in this regard and the same is to be submitted at the time of registration.

xxi) Calculation of SGPA/CGPA

Semester Grade Point Average (SGPA) and Cumulative Grade Point Average (CGPA) are calculated as follows.

$$SGPA = \frac{\sum(C_i \times GP_i)}{\sum C_i}$$

where C_i is the credit is the credit assigned for a course and GP_i is the grade point for that course. Summation is done for all courses registered by the student in the semester. Here the failed courses are also accounted.

$$CGPA = \frac{\sum(C_i \times GP_i)}{\sum C_i}$$

where C_i is the credit assigned for a course and GP_i is the grade point for that course. Summation is done for all courses registered by the student during all the semesters for which the CGPA is needed. Here the failed courses are also accounted. CGPA of all courses passed may also be given.

Thiruvanthapuram
26-6-2015   Registrar

15
APJAKTU Regulations for MCA

APJ Abdul Kalam Technological University
CET Campus, Thiruvananthapuram, Kerala-695016

2016

Regulations for
Master of Computer Applications
(MCA, MCA Lateral Entry, Integrated Degree MCA)

Index

(n) Grades and Grade Points

(o) Academic Auditing

(p) Break of Study

(q) Revaluation and Grade Improvement

(r) Grade Cards

(s) MCA Degree

(t) Academic Discipline and Malpractices in Examinations

(u) Students Welfare Committee

(v) Grievances and Appeals Committee

8. Amendment to the ordinance/Regulations/Rules.

1   Admission to the Master of Computer Applications

a) Eligibility for admission to the MCA programme, admission policy and procedure shall be decided from time to time by following the guidelines issued by All India Council for Technical Education (AICTE), Government of India and the Government of Kerala. Other important eligibility criteria are as listed out by the Director of Technical Education with the approval of the Government of Kerala.

b) Subject to Clause 1(a), Admission to MCA, shall be based on the guidelines given by the State and Central Governments on reservation. Other eligibility criteria for admission is currently prescribed by the Government of Kerala through Government orders.

c) The Branches of study and number of students admitted are to be based on the approval by the All India Council for Technical Education (AICTE) and the APJ Abdul Kalam Technological University (KTU).

d) Notwithstanding all that is stated above, the admission policy may be modified from time to time by the University, particularly to confirm to directions from the Government of Kerala and the Government of India.

e) The MCA programme is a credit based programme. The duration of the MCA programme will normally be three academic years spanning 6 semesters, MCA Lateral Entry programme will normally be two academic years spanning 4 semesters and Dual Degree MCA programme will normally be five academic years spanning 10 semesters. The maximum duration shall be,for MCA - five academic years spanning 10 semesters, for MCA Lateral Entry - four academic years spanning 8 semesters, for Dual Degree MCA - seven academic years spanning 14 semesters.

2   Examination

a) At the end of the semester, end semester examination will be conducted in all lecture based courses offered in the semester and will normally be of three hours duration, unless otherwise specified. Supplementary examinations shall be conducted after the declaration of results of end semester examinations, for students who are eligible and have registered for them.

b) Students, who have completed a course but could not write the end semester examination for valid reasons like illness or personal exigencies, are allowed to write the supplementary examination or the end semester examination at the next opportunity and earn the credits without having to register for the course again provided they meet other eligibility criteria.

c) The main eligibility criteria for the end semester examination are attendance in the course, internal marks and no pending disciplinary action. The minimum attendance for appearing for the end semester examination is 85% in each course. Further, the internal evaluation marks in the course should be 45% or above. Students who do not meet these eligibility criteria are awarded an FE grade and have to register for the course again.

d) Students who could not write the end semester examination due to health reasons or other exigencies can register for the supplementary examination, with the approval of the principal provided they have 45% or above marks in the internal evaluations for the course. Candidates who received F grade can also write the supplementary examination. Grades awarded in the supplementary examination will be taken as the end semester grades in these courses.

3   Eligibility for Award of Degree

The award of MCA degree shall be based on the recommendation of the Academic Committee and the approval of the Board of Governors and in accordance with the academic regulations, if any, issued for the said purpose by the University.

Award of MCA Degree

The award of the MCA Degree shall be in accordance with the Ordinances and Procedures given by the University. A student will be eligible for the award of MCA Degree of the University on meeting the following requirements:

a) Registered and earned the minimum credits, as prescribed in the curriculum.

b) No pending disciplinary action.

4   Fee charged by the University

Fee charged for the programme shall be decided by the University from time to time and informed to all concerned for compliance.

5   Discipline of the student - Action against breach of discipline

Every college shall have a Students Welfare Committee and a Disciplinary Action Committee, constituted by the Principal of the college. Each college should have a Grievance Redress and Appeals Committee constituted by the Principal to address the grievances of the students and to consider their appeals on any decisions made by the college. Details on the constitution and terms of reference are outlined in 7-v, 7-w, and 7-x.

6   Action against breach of guidelines and unfair practices in Examinations.

These are viewed seriously and appropriate actions are to be taken by the colleges as detailed in 7-v.

7   Miscellaneous Provisions:

a) **Language of Instruction and Examination**

   Unless otherwise stated, the language of instruction and examinations shall be English.

b) **Academic Calendar**

   The University shall publish in its website the academic calendar for every academic semester indicating the commencement of the semester and beginning of instruction. It will specify the course registration and enrollment dates, the schedule for mandatory internal tests for theory courses, dates by which laboratory/practical evaluations are to be completed, date for finalization of internal marks, last instruction day in the semester, planned schedule of end semester examinations and result declaration as well as approved holidays falling within the semester. Schedules for the supplementary examinations and result declaration dates are to be included in the calendar. Additionally colleges may publish their academic calendar, in line with the University academic calendar, indicating other schedules and events they plan to conduct during the semester.

c) **MCA Programme Structure**

   (i) MCA programme is structured on a credit based system following the semester pattern with continuous evaluation allowing flexibility for students to decide on the duration of programme completion.

   (ii) Each semester shall have 72 instructional days, followed by end semester examinations.

   (iii) A common course structure for the MCA programme is to be followed and consists of the following.
   Core Courses
   Elective Courses

Laboratory Courses

Seminar

Project

(iv) The curriculum of MCA programme is designed to have a minimum number academic credits based on 7 (l), for the award of the degree.

Credits are assigned as follows, for one semester:

1 credit for each lecture hour per week

1 credit for each tutorial hour per week

1 credit for each laboratory/ practical of 2, 3 or 4 hours per week

2 credits for the seminar

2 credits for Mini Project

12 credits for Final Project

(v) The maximum number of lecture based courses and laboratory courses in any semester shall not exceed 5 and 2 respectively. The maximum credits in a semester shall be 23.

(vi) University may allow students to transfer credits they have earned at other Universities and Academic Institutions, as per the guidelines given by the Academic Committee and approved by the Board of Governors.

d) **Curriculum, List of Courses and Syllabi**

MCA programme will have a curriculum, list of courses, syllabi and course plans approved by the Academic Committee of the University.

e) **Faculty Advisor/Counsellor** All students shall have faculty advisors whose role will be:

To guide and help students on academics

To monitor their progress in academics and advise them

To counsel them and hand-hold them in any difficulty

f) **Course Registration and Enrollment** All students have to register for the courses they desire to attend in a semester. Students admitted to the first semester are advised to register for all courses offered in the first semester. They do not have to enroll for the semester. All other students are required to register at the end of the semester for the courses they desire to take in the next semester. Later they have to enrol for these courses in the new semester based on the results in the previous semester. This allows them to make minor changes in the list of courses already registered for. Before enrolment, students should clear all dues including any fees to be paid and should not have any disciplinary proceedings pending. The dates for registration and enrollment will be given in the academic calendar. Any late registration or enrollment, allowed only up to 7 working days from the commencement of the semester, will attract a late fee.

A student can drop a course or substitute one already registered for by another, for valid reasons with the approval of the faculty advisor. However this has to be done within 7 working days from the commencement of the semester.

The maximum number of credits a student can register for in a semester is limited to 24.

g) **Course Completion and Earning of Credits** Students registered and later enrolled for a course have to attend the course regularly and meet the attendance rules of the university [RU-2] and appear for all the internal evaluation procedures for the completion of the course. Credits for the course are earned only on getting a pass grade in the composite evaluation.

h) **Core courses, Prerequisites and Electives** All courses listed in the curriculum, other than the electives, are core courses. Earning credits in the core courses is mandatory for the MCA degree. For electives, failure to earn credits does not necessarily require repeating the course. Instead another approved elective is permitted as a replacement course by the faculty advisor concerned. For some courses there could be a prerequisite course completion requirement for registration.

i) **Academic Assessment/Evaluation**

University follows a continuous academic evaluation procedure. Academic evaluation procedure and corresponding weights are as follows:

 1) **For theory courses**

   The maximum marks for internal evaluation and end semester examination for theory courses are fixed as 40 and 60 respectively. Scheme of evaluation is as follows.

   i) Two internal tests each of 15 marks and of one hour duration. (Internally by the College)

   ii) Tutorials/Assignments/Mini Projects carrying 10 marks. (Internally by the College)

   iii) End Semester examination carrying 60 marks. (Conducted by the University)

   All the above evaluations are mandatory requirements to earn credits. Students who have missed either the first or the second test can register with the consent of the faculty and the Head of the Department (HOD) concerned for a re-test which shall be conducted soon after the completion of the second test, but before the end semester examination. The re-test will cover both first and second test course plans. Those who have missed both the tests are not eligible to appear for the end semester examination. However if one misses both tests due to medical reasons or other personal exigencies, based on genuine evidence, a single test of 2 hour duration for 30 marks will be conducted covering the whole syllabus, before the end semester examinations. Decision on this will be taken by the Principal and verified by the external academic auditor.

2) **For Laboratory /Practical courses**

   a) Practical records /Outputs 60 marks (Internally by the College)

   b) Regular class Viva 10 marks (Internally by the College)

   c) Final practical exam 30 marks (Internally by the College)

All the above assessments are mandatory to earn credits. If not, the student has to complete the course/assessments during his free time in consultation with the faculty members. On completion of these, grades will be assigned. In case the Practical /Laboratory courses are not completed in the semester, grade I (incomplete) will be awarded against the course and the final grade will be given only after the completion of the course/assessments.

3) **Seminar**

Students have to prepare a detailed report on the topic of the seminar and submit it to the teacher concerned. The seminar is to be of 20 minutes duration with another 5 minutes given for questions and answers. All students in the class have to attend the seminar without fail. Evaluation will be based on the report, seminar presentation as well as on the ability of the student to answer the questions put forward. Faculty member in charge of the seminar and another faculty member in the department nominated by the Head of the Department are the evaluators for the seminar. Distribution of marks for the seminar is as follows.

Marks for the report: 20%

Presentation: 60%

Ability to answer questions on the topic: 20%

4) **Final Semester Project**

Students, individually have to do a project approved by their faculty supervisor.

Project evaluation weights shall be as follows:-For convenience the marks are allotted as follows.

Marks for the Final Project: 100

Project Progress evaluation details

Project evaluation by the supervisor/s : 30 Marks

Presentation and evaluation by the Committee : 40 Marks

Evaluation by the External expert : 30 Marks

The project assessment board shall consist of the following members.

Chairman: Head of the Department

Members:

Project supervisor/s of the student

One faculty member from the Department One faculty member from a sister Department

An external expert, either from an academic/research institute or industry

j) **Eligibility to Continue** A student has to earn a minimum number of credits in a semester to be eligible to register for the new courses offered in the next semester. In odd semesters if this requirement is not met, the student is to be forewarned and allowed to continue to the next even semester. However at the end of even semesters this requirement will be strictly implemented. Students who do not meet this requirement are not permitted to register for new courses in the higher semesters. They have to register for the failed courses in normal semesters in which they are offered subject to the limitations imposed by the ordinances and course timetable. Action plan, for dealing with course arrears in theory courses at the end of each semester to continue with the programme, is given below. Faculty advisors shall monitor, advice and support the students in this. Students should be informed about the minimum cumulative credits requirement to register for higher semester courses.

Eligibility Criteria for Registering for Higher Semester Courses

Integrated MCA

Semester	Allotted credits	Cumulative Credits	Minimum cumulative credits required to register for courses in higher semesters
First	22	22	Not insisted
Second	22	44	33 (75%)
Third	22	66	Not insisted
Fourth	22	88	75 (85%)
Fifth	22	110	Not insisted
Sixth	22	132	119 (90%)
Seventh	22	154	Not insisted
Eighth	22	176	167 (95%)
Ninth	23	199	Not insisted
Tenth	12	211	–

Regular MCA

Semester	Allotted credits	Cumulative Credits	Minimum cumulative credits required to register for courses in higher semesters	
			Regular	Lateral entry
First	22	22	Not insisted	Credit Transfer
Second	22	44	33 (75%)	Credit Transfer
Third	22	66	Not insisted	Not insisted
Fourth	22	88	75 (85%)	75 (85%)
Fifth	23	111	Not insisted	Not insisted
Sixth	12	123	–	–

k) **Class Committees**

The Class Committees are to be in place in each college affiliated to the University. Beginning from the first semester, all branches of study will have class committees for every semester constituted by the respective Heads of the Departments. The chairman of the committee shall be a senior faculty member who does not offer any course during that semester.

Members:

1. All faculty members teaching courses in that semester.

2. Two student representatives nominated by the head of the Department.

The class committees shall meet at least thrice in a semester the first at the beginning of the semester, the second and the third after the first and the second internal tests respectively. Class committees should monitor the conduct of the courses, adherence to the course plan and time schedule, completion of the syllabus, standards of internal tests, evaluation process and difficulties faced by the students and take suitable remedial actions at the appropriate time. At the end of the semester, the committee should meet without student representatives to review the conduct of the course and finalize the internal assessment marks and approve them.

l) **Eligibility for writing the end semester examination and for grading**

Students with 45% or more marks in internal assessment in a course shall only be permitted to write the end semester examination in that course. Those with less than 45% internal marks shall be awarded FE (Failed due to Eligibility criteria) grade and have to register for the course again.

A student should have a minimum of 45% marks in the end semester examination to be eligible for grading in a course. Otherwise he/she will be considered to have failed in the course and an F grade will be awarded.

Internal marks given to the students who got 45% marks or more in the end semester examination shall be regulated in line with the end semester examination performance. Internal mark percentage shall not exceed 25% over the end semester mark %.

(For example if the end semester mark % is 45, then the maximum internal mark % is to be 45+25 = 70 %.)

In case the student writes the supplementary examination, the mark got in that will be taken into consideration for regulating the internal marks.

Those who have more than 45% marks in the end semester examination are awarded the grade based on both internal assessment and end semester examination marks. A student earns credits for a course if the grade is P or above.

m) **Award of Grades**

Grading is based on the % marks obtained by the student in a course, as given in 7(p). The grade card will only give the grades against the courses

the student has registered. Semester grade card will give the grade for each registered course, Semester Grade Point Average (SGPA) for the semester as well as Cumulative Grade Point Average (CGPA).

n) **Grades and Grade Points**

Grades and Grade Points to be followed by the University

Grades	Grade Point (GP)		% of Total Marks obtained in the course
O	(Outstanding)	10	90% and above
A+	(Excellent)	9	85% and above but less than 90%
A	(Very Good)	8.5	80% and above but less than 85%
B+	(Good)	8	70% and above but less than 80%
B	(Above Average)	7	60% and above but less than 70%
C	(Average)	6	50% and above but less than 60%
P	(Pass)	5	45% and above but less than 50%
F	(Fail)	0	Less than 45%
FE	–	0	Failed due to Eligibility criteria [7-n]
I	–	–	Course Incomplete

SGPA and CGPA are calculated based on the above grading norms and are explained at the end of this document.

o) **Academic Auditing**

The University shall have a detailed academic auditing procedure in place comprising of an internal academic auditing cell within the colleges and an external academic auditing for each college. The internal academic auditing cell in each college shall oversee and monitor all the academic activities including all internal evaluations and examinations. This cell is to prepare academic audit statements for each semester at regular intervals. These reports are to be presented to the external academic auditor approved by the University, who will use it as a reference for his independent auditing and for the final report to the University.

Academic auditing shall cover:-

i) Course delivery covering syllabus, adherence to course plan, quality of question papers for internal examinations, internal evaluation, laboratory experiments, practical assignments, mini projects and conduct of practical classes and their evaluation.

    ii) Co-curricular and Extra-curricular activities available for students, their organization and the mechanism of monitoring of activities points earned by the students.

   iii) Academic functioning of the college encompassing students, faculty and college administration covering punctuality, attendance, discipline, academic environment, academic accountability, academic achievements and benchmarking.

p) Break of Study

A student may break study for a maximum duration of two semesters, preferably in one academic year, to initiate start-up ventures, product development etc. This is however permitted only on successfully completing the courses listed out in the first four semesters. Request for this with ample evidence to the seriousness of the venture should be forwarded to the college principal for approval. [RU-3]

Break of study on serious health reasons is also permitted with the approval of the college Principal in any semester. [RU-3] All such cases of break of study are to be reported to the University. In both the cases, the maximum duration for completing the MCA programme will still be as given in 1(e).

q) Revaluation and Grade Improvement

There is no provision for revaluation of the end semester answer books as they are valued by two examiners or for improving the grade.

However, the student is permitted to check the answer books of the end semester examination after the results are declared. Any discrepancy in evaluation could be brought to the notice of the teacher concerned who will initiate appropriate action on this. The decision of the Controller of Examination shall be final on this.

r) Grade Cards

Students who have written the end semester examination will be given the grade cards for the registered courses on the website, in every semester. On earning the required credits for the degree, a consolidated grade sheet for the MCA programme will be given by the University.

s) MCA Degree

MCA degree will not have any classifications like distinction or first class.

t) Academic Discipline and Malpractices in Examinations

Every student is required to observe discipline and decorous behaviour.

Any act of indiscipline, misbehaviour and unfair practice in examinations will be referred to the Disciplinary Action Committee (DAC). Malpractices in examinations shall be viewed seriously and any such incident observed or reported by a faculty member or an invigilator associated with the examinations shall be reported to the Principal who in turn shall refer it to

DAC. On the basis of the report and evidence available or gathered, DAC shall immediately initiate an enquiry giving the concerned student a chance to explain his/her case. Based on this the committee shall recommend the course of action in line with the guidelines formulated for this by the Controller of Examination of the University and forward it to the Principal for action. Actions are to be based on the severity of the offence and are to be dealt with, on a course basis. Guidelines on this shall be given by the Controller of Examination which is to be followed by the Disciplinary Action Committee of the college.

The student may appeal to the Grievances and Appeals Committee for a relook on the matter. Based on the committees report, the Principal shall take a final decision on the matter. DAC shall be headed by a department head and shall have three other faculty members drawn from different departments as members. In case of malpractices in end semester examinations, the report given by the college DAC and the action taken by the Principal shall be intimated to the Controller of Examination of the University. The Controller of Examinations will refer the cases to the examination monitoring committee for review.

u) **Students Welfare Committee**

Every college shall have a Students Welfare Committee, constituted by the Principal of the college. This committee shall have at least three faculty members as members and the chairman shall be a senior faculty member in the rank of a Professor. This committee is entrusted with the task of looking after the welfare of the students by taking appropriate steps with the concurrence of the principal.

v) **Grievances and Appeals Committee**

Each college should have a Grievances Redress Committee constituted by the Principal to address the grievances of the students and to consider their appeals on any decisions made by the college. This committee consisting of at least three faculty members and chaired by a senior professor shall look into students grievances and appeals and give its recommendations to the Principal for action.

8   Amendment to Ordinance/Regulations/Rules

Notwithstanding all that has been stated above, the University has the right to modify any of the above Ordinance/Rules/regulations from time to time.

Rules

RU-1   Course Code and Course Number[1]

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[1] It appears that there is some ambiguity in the wording of this rule.

Each course is identified by a course code and a three digit number. For regular MCA programme the course code will be CA XXX, where XXX is the course Number for 1st and 2nd semesters and the course code will be CA XXX, where XXX is the course Number for 3rd to 6th semesters as the subjects are same as that for lateral entry students.

Course Number MCA101: This refers to a course in first year, odd semester with the course number 101.

Course Number MCA505: This refers to a course in fifth year, odd semester with the course number 505. These course numbers are to be given in the curriculum and syllabi.

RU-2   Attendance

Attendance is marked for each course. 85% attendance is mandatory for writing the semester examination in a course. Students who get Part Time Teaching Assistantship (PTTA) or Scholarships from the Central or State Governments or any other agencies are expected to have 100% attendance. However, under unavoidable circumstances students are permitted to take leave. Leave is normally sanctioned for any approved activity taken up by students outside the college covering sports and other extra-curricular activities. Leave is also permitted on medical grounds or on personal exigencies. Leave of absence for all these is limited to 15% of the academic contact hours for the course.

In case of long illness or major personal tragedies/exigencies the Principal can relax the minimum attendance requirement to 70%, to write the semester examination. This is permitted for one or more courses registered in the semester The Principal shall keep all records which led to his decision on attendance, for verification by the Academic Auditor. However this concession is applicable only to any two semesters during the entire programme.

In the case where students with less than 85% attendance and more than 70% attendance are permitted by the Principal to write the end semester exam, the details must be reported to the University and the records must be maintained in the College and University. In case of prolonged illness, break of study is permitted as per RU-3.

RU-3   Break of Study A student is permitted to have a break of study.

    i) In case of accident or serious illness needing prolonged hospitalization and rest.

   ii) In case the student has a bright idea and would like to initiate a start-up venture or develop a new product.

 iii) In case of any personal reasons that need a break in study.

For break of study due to illness, student should submit all necessary medical reports together with the recommendation of the doctor treating him giving definite reasons for break of study and its duration. Before joining

back the student should submit the fitness certificate from the doctor who treated him.

Students who want to initiate a start-up venture or a product development, have to submit a project report, clearly indicating the purpose, action plan, technical details, funding details and future plans to the college Principal. The Principal shall evaluate the proposal by constituting an expert team consisting of a technocrat and a bank executive and take an appropriate decision based on the team's recommendation. In the semester system followed by the University, break of study for an academic year is preferred over a semester break.

Students who want a break in study due to personal reasons shall convince the Principal on the genuine need for it by giving authentic evidence for the same.

RU-4 Leave of Absence

Students who want to take leave under RU2 have to submit a leave letter to the teacher conducting the course. This letter is to be forwarded to the Head of the Department with recommendation of the teacher indicating the total leave of absence the student has so far availed. Leave is to be sanctioned by the Head of the Department. For medical leave over three days, medical certificate indicating the need for leave is required. After any medical leave exceeding five instruction days, on rejoining, the student has to produce the fitness certificate given by the doctor.

RU-5 Seminar

Students have to prepare a detailed report on the topic of the seminar and submit it to the teacher concerned. The seminar is to be of 20 minutes duration with another 5 minutes given for questions and answers. All students in the class have to attend the seminar without fail. Evaluation will be based on the report, seminar presentation as well as on the ability of the student to answer the questions put forward. Faculty member in charge of the seminar and another faculty member in the department nominated by the Head of the Department are the evaluators for the seminar. Distribution of marks for the seminar is as follows.

Marks for the report:

20% Presentation: 60%

Ability to answer questions on the topic: 20%

RU-6 Project Evaluation

Normally students are expected to do the project within the college. However they are permitted to do the project in an industry or in a government research institute under a qualified supervisor from that organization. Progress of the project work is to be evaluated at least twice before the final evaluation. For this a committee headed by the head of the department with two other faculty members in the area of the project and the project

supervisor/s.If the project is done outside the college, the external supervisor associated with the student shall also be a member of the committee.

Final evaluation of the project will be taken up only if the student has earned all course credits listed in the previous semesters Project evaluation shall be done by the same committee mentioned above with an external expert, either from an academic/R&D organization or from Industry, as an additional member. If the quantum of work done by the candidate is found to be unsatisfactory, the committee may extend the duration of the project up to one more semester, giving reasons for this in writing to the student. Normally further extension will not be granted and there shall be no provision to register again for the project.

RU-7 Project work outside the College

While students are expected to do their projects in their colleges, provision is available for them to do it outside the college either in a reputed software industry or in an institute of repute. This is only possible in the final semester. Student should apply for this through the project supervisor indicating the reason for this well in advance.

The application for this shall include the following:

Topic of the Project: Project work plan:

Reason for doing the project outside:

Institution/Company where the project is to be done:

External Supervisor Name:

Designation:

Qualifications:

Experience:

Letter of consent of the External Supervisor as well as from the organization is to be obtained. This application is to be vetted by the head of the department and based on the decision taken, the student is permitted to do the project outside the college.

RU-8 Ragging

Ragging of any nature is a criminal and non-bailable offence. Involvement in ragging shall lead to stringent punishment, including imprisonment as per the law of the land. A student, whose involvement in ragging is established, shall be summarily dismissed from the college. Each student of the Institute, along with his/her parent, is required to give an undertaking in this regard and the same is to be submitted at the time of registration.

Addendum

Calculation of SGPA/CGPA: Semester Grade Point Average (SGPA) and Cumulative Grade Point Average (CGPA) are calculated as follows.

$$\text{SGPA} = \frac{\sum C_i \times \text{GP}_i}{\sum C_i}$$

where C_i is the credit assigned for a course and GP_i is the grade point for that course. Summation is done for all courses registered by the student in the semester. Here the failed courses are also accounted.

$$\text{CGPA} = \frac{\sum C_i \times \text{GP}_i}{\sum C_i}$$

where C_i is the credit assigned for a course and GP_i is the grade point for that course. Summation is done for all courses registered by the student during all the semesters for which the CGPA is needed. Here the failed courses are also accounted. CGPA of all courses passed may also be given.

CGPA for the MCA programme is arrived at by considering all course credits that are needed for the degree and their respective grade points.

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Calendar

This calendar is the academic calendar for the academic year July 2016 - June 2017 as published by APJAKTU in its website and is applicable to BTech, MTech and MCA programmes of the University.

July 2016

Date	Day	To remember
1	Friday	
2	Saturday	
3	Sunday	
4	Monday	
5	Tuesday	
6	Wednesday	Id-ul-Fitr
7	Thursday	
8	Friday	
9	Saturday	
10	Sunday	
11	Monday	
12	Tuesday	
13	Wednesday	
14	Thursday	
15	Friday	
16	Saturday	
17	Sunday	
18	Monday	
19	Tuesday	
20	Wednesday	
21	Thursday	
22	Friday	
23	Saturday	
24	Sunday	
25	Monday	
26	Tuesday	
27	Wednesday	Registration Starts
28	Thursday	
29	Friday	
30	Saturday	
31	Sunday	

August 2016

Date	Day	To remember
1	Monday	Commencement of Classes
2	Tuesday	Karkadaka Vavu
3	Wednesday	
4	Thursday	
5	Friday	Course Committee/Class Committee Meeting
6	Saturday	
7	Sunday	
8	Monday	
9	Tuesday	Registration Ends
10	Wednesday	Report Registration details to KTU
11	Thursday	
12	Friday	
13	Saturday	
14	Sunday	
15	Monday	Independence Day
16	Tuesday	
17	Wednesday	
18	Thursday	
19	Friday	
20	Saturday	
21	Sunday	
22	Monday	
23	Tuesday	
24	Wednesday	Sreekrishna Jayanthi
25	Thursday	
26	Friday	
27	Saturday	
28	Sunday	Birthday of Ayyankali
29	Monday	
30	Tuesday	
31	Wednesday	

September 2016

Date	Day	To remember
1	Thursday	Publish Attendance
2	Friday	
3	Saturday	
4	Sunday	
5	Monday	
6	Tuesday	
7	Wednesday	Test 1 to be completed
8	Thursday	
9	Friday	
10	Saturday	Onam Vacation Begins
11	Sunday	
12	Monday	Bakrid
13	Tuesday	First Onam
14	Wednesday	Thiruvonam
15	Thursday	Third Onam
16	Friday	Sree Narayana Guru Jayanthi
17	Saturday	
18	Sunday	
19	Monday	Re-Opening
20	Tuesday	Course Committee/Class Committee Meeting
21	Wednesday	Sree Narayana Guru Samadhi Day
22	Thursday	Publish Test 1 Marks
23	Friday	
24	Saturday	
25	Sunday	
26	Monday	
27	Tuesday	
28	Wednesday	
29	Thursday	
30	Friday	

October 2016

Date	Day	To remember
1	Saturday	
2	Sunday	Gandhi Jayanthi
3	Monday	
4	Tuesday	
5	Wednesday	
6	Thursday	
7	Friday	Publish Attendance
8	Saturday	
9	Sunday	
10	Monday	Mahanavami
11	Tuesday	Vijayadasami
12	Wednesday	Muharram
13	Thursday	
14	Friday	
15	Saturday	
16	Sunday	
17	Monday	
18	Tuesday	
19	Wednesday	
20	Thursday	
21	Friday	Test 2 to be completed
22	Saturday	
23	Sunday	
24	Monday	
25	Tuesday	
26	Wednesday	
27	Thursday	
28	Friday	Publish Test 2 Marks
29	Saturday	Deepavali
30	Sunday	
31	Monday	

November 2016

Date	Day	To remember
1	Tuesday	
2	Wednesday	
3	Thursday	
4	Friday	
5	Saturday	
6	Sunday	
7	Monday	
8	Tuesday	
9	Wednesday	
10	Thursday	
11	Friday	
12	Saturday	
13	Sunday	
14	Monday	
15	Tuesday	
16	Wednesday	
17	Thursday	
18	Friday	
19	Saturday	College Level Arts Festival to be completed
20	Sunday	
21	Monday	Course Committee/Class Committee Meeting
22	Tuesday	
23	Wednesday	Last date for evaluation of Practical Exam
24	Thursday	Classes End, Publish Internal Marks
25	Friday	Publish Attendance
26	Saturday	
27	Sunday	
28	Monday	Forward Attendance & Internal Marks to KTU
29	Tuesday	
30	Wednesday	

December 2016

Date	Day	To remember
1	Thursday	
2	Friday	S1/S3 Exam
3	Saturday	
4	Sunday	
5	Monday	S3/S1 Exam
6	Tuesday	
7	Wednesday	S3/S1 Exam
8	Thursday	
9	Friday	S3/S1 Exam
10	Saturday	
11	Sunday	
12	Monday	Milad-i-Sherif
13	Tuesday	
14	Wednesday	S3/S1 Exam
15	Thursday	
16	Friday	S3/S1 Exam
17	Saturday	
18	Sunday	
19	Monday	Arts & Tech Fests Week
20	Tuesday	Arts & Tech Fests Week
21	Wednesday	Arts & Tech Fests Week
22	Thursday	Arts & Tech Fests Week
23	Friday	Arts & Tech Fests Week
24	Saturday	Christmas Vacation Begins
25	Sunday	Christmas
26	Monday	
27	Tuesday	
28	Wednesday	
29	Thursday	
30	Friday	
31	Saturday	

January 2017

Date	Day	To remember
1	Sunday	
2	Monday	Mannam Jayanthi
3	Tuesday	Registration starts
4	Wednesday	Commencement of S2 & S4 Classes
5	Thursday	
6	Friday	
7	Saturday	
8	Sunday	
9	Monday	Course Committee/Class Committee Meeting
10	Tuesday	
11	Wednesday	Registration Ends
12	Thursday	
13	Friday	Tech Fest
14	Saturday	Tech Fest
15	Sunday	
16	Monday	
17	Tuesday	
18	Wednesday	
19	Thursday	
20	Friday	
21	Saturday	
22	Sunday	
23	Monday	
24	Tuesday	
25	Wednesday	
26	Thursday	Republic Day
27	Friday	
28	Saturday	
29	Sunday	
30	Monday	
31	Tuesday	Publish Attendance

February 2017

Date	Day	To remember
1	Wednesday	
2	Thursday	
3	Friday	
4	Saturday	
5	Sunday	
6	Monday	
7	Tuesday	
8	Wednesday	
9	Thursday	Test 1 to be completed
10	Friday	Course Committee/Class Committee Meeting
11	Saturday	
12	Sunday	
13	Monday	
14	Tuesday	
15	Wednesday	Publish Test 1 Marks
16	Thursday	
17	Friday	
18	Saturday	
19	Sunday	
20	Monday	
21	Tuesday	
22	Wednesday	
23	Thursday	
24	Friday	Maha Shivratri
25	Saturday	
26	Sunday	
27	Monday	
28	Tuesday	

March 2017

Date	Day	To remember
1	Wednesday	
2	Thursday	
3	Friday	
4	Saturday	
5	Sunday	
6	Monday	
7	Tuesday	
8	Wednesday	
9	Thursday	
10	Friday	Test 2 to be completed
11	Saturday	
12	Sunday	
13	Monday	
14	Tuesday	
15	Wednesday	
16	Thursday	Publish Test 2 Marks
17	Friday	
18	Saturday	
19	Sunday	
20	Monday	
21	Tuesday	
22	Wednesday	
23	Thursday	
24	Friday	
25	Saturday	
26	Sunday	
27	Monday	
28	Tuesday	
29	Wednesday	
30	Thursday	
31	Friday	

April 2017

Date	Day	To remember
1	Saturday	
2	Sunday	
3	Monday	
4	Tuesday	
5	Wednesday	
6	Thursday	
7	Friday	
8	Saturday	College Level Sports Meet to be completed
9	Sunday	
10	Monday	
11	Tuesday	
12	Wednesday	Course Committee/Class Committee Meeting
13	Thursday	Maundy Thursday
14	Friday	Good Friday, Vishu, Dr. Ambedkar Jayanthi
15	Saturday	
16	Sunday	Easter
17	Monday	Publish Internal Marks, Summer Course Registration
18	Tuesday	
19	Wednesday	
20	Thursday	Last date for evaluation of Practical Exam
21	Friday	Classes End, Publish Attendance
22	Saturday	
23	Sunday	
24	Monday	Forward Attendance & Internal Marks to KTU
25	Tuesday	
26	Wednesday	
27	Thursday	S4 Exam
28	Friday	S4 Exam
29	Saturday	
30	Sunday	

May 2017

Date	Day	To remember
1	Monday	May Day
2	Tuesday	S4 Exam
3	Wednesday	S2 Exam
4	Thursday	S4 Exam
5	Friday	S2 Exam
6	Saturday	
7	Sunday	
8	Monday	S2 Exam
9	Tuesday	S4 Exam
10	Wednesday	S2 Exam
11	Thursday	S4 Exam
12	Friday	S2 Exam
13	Saturday	
14	Sunday	
15	Monday	S4 Exam
16	Tuesday	S2 Exam
17	Wednesday	S2 Exam
18	Thursday	Sports Week
19	Friday	Sports Week
20	Saturday	Sports Week
21	Sunday	Sports Week
22	Monday	Sports Week
23	Tuesday	Summer Course Starts for S1, S2, S3 & S4
24	Wednesday	
25	Thursday	
26	Friday	
27	Saturday	
28	Sunday	
29	Monday	
30	Tuesday	
31	Wednesday	

June 2017

Date	Day	To remember
1	Thursday	
2	Friday	
3	Saturday	
4	Sunday	
5	Monday	
6	Tuesday	
7	Wednesday	
8	Thursday	
9	Friday	
10	Saturday	
11	Sunday	
12	Monday	Registration for Supplementary Examination
13	Tuesday	
14	Wednesday	
15	Thursday	
16	Friday	Registration for Supplementary Examination Ends
17	Saturday	
18	Sunday	
19	Monday	
20	Tuesday	
21	Wednesday	
22	Thursday	
23	Friday	Report eligibility of students attendance Summer Course to KTU
24	Saturday	
25	Sunday	
26	Monday	Id-ul-Fitr
27	Tuesday	
28	Wednesday	
29	Thursday	Supplementary Examination Starts
30	Friday	

Days to remember

Date	Day	Event

Leave record

Date	Period	Reason	Signature of Group Tutor

Time Table

	I	II	Break	III	IV	Break	V	VI	VII
Mon			|			|			
Tue			|			|			
Wed			|			|			
Thu			|			|			
Fri			|			|			

Notes:

Progress through education