

Department of Information Technology

Suggestions of External BoS Members

URR-18



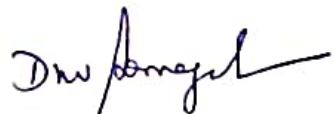
KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE, WARANGAL-15
(An Autonomous Institute under Kakatiya University, Warangal)

DEPARTMENT OF INFORMATION TECHNOLOGY

Date:

Recommendations/suggestions given by External Bos Member for proposed U-18
Scheme and Evaluation: -

- 1) Titles of the course must be generic and not specifically through a language
- 2) Prerequisites for MOOC courses must be fulfilled before starting the course.
- 3) Induction program for first years can have MOOC courses
- 4) Teachers also can be encouraged to do MOOC courses
- 5) Discrete mathematics must be taught with computer science applications by CSE/IT faculty
- 6) AI Experiments must be included in data Engineering lab.

Signature: 
Name: Dr. V. L. W. Somayajulu
Designation: Professor of CSE &
Chair EEICT ACAD
NIT Warangal



KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE, WARANGAL-15
(An Autonomous Institute under Kakatiya University, Warangal)

DEPARTMENT OF INFORMATION TECHNOLOGY

Date:

Recommendations/suggestions given by External Bos Member for proposed U-18 Scheme and Evaluation: -

- 1) Induction program for first year students is mandatory and yoga etc has to be implemented. So that students can cope up with the new study environment.
 - 2) Include python in web programming in depth, Perl & R tool in scripting languages, AI experiments in Data Engineering lab, Networking Experiments must be included in practicals.
 - 3) OS Experiments should be improved. like TCP etc.
Cyber security related courses should be included.
-) Few Advanced Java programs can be included in Java.
) Courses/Laboratory Syllabus must be in such a way that students can do projects efficiently.

Signature: G. Narsimha
Name: Dr. G. Narsimha
Designation: Prof. & Head of CSE
JNTUH U.S.

DEPARTMENT OF INFORMATION TECHNOLOGY

Date: 16/6/18

Recommendations/suggestions given by External Bos Member for proposed U-18 Scheme and Evaluation: -

- 1) Syllabus of Mathematics III & IV can be included with Information Technology related content rather than having same as other branches syllabus. and total credits should be 6.
- 2) An English course which improves thesis writing skills, paper writing and presentation skills can be included in 7th semester.
- 3) Credit breakup can be balanced with that of AICTE model curriculum by making few changes like, moving courses to different semesters and offering 1 or more 2 Open Electives for circuit branches in 6th & 7th semesters.
- 4) MEA can be shifted to 4th semester.
- 5) Title of 1st year course in 'C' for problem solving can be changed to 'programming'.

Signature:

RBV Subramanyam
16/6/18

Name:

DRBV SUBRAMANYAM

Designation:

Professor & Head
Dept of CSE
NIT Warangal




KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE, WARANGAL-15
(An Autonomous Institute under Kakatiya University, Warangal)

DEPARTMENT OF INFORMATION TECHNOLOGY

Date: 16/6/18.

Recommendations/suggestions given by External Bos Member for proposed U-18
Scheme and Evaluation: -

- 1) Few concepts can be included in appropriate courses to meet industry needs. Like, Data science, Agile computing, RPA (Robotic Process Automation), NLP (Natural Language processing), NOSQL Database concepts, Hybrid mobile Application development
- 2) Quality Assurance & Testing, Vulnerability testing in ethical hacking, CURL in scripting languages.
- 2) Design & Analysis of Algorithms course (DAA) and Database management Systems course can be interchanged.
- 3) Students must be made aware of entrepreneurship development & startups using training programs to ensure survival in industry.

Signature: 

Name: Sandeep Shekhar Vohra

Designation: AGM - HOS.



Recommendations/suggestions given by External BoS Member for proposed U-18
Scheme and Evaluation: -

- 1) Agile methodology and implementation
(Minimal online trainings) - Please Include
- 2) Mobile Applications related (Android, iOS, both)
(short projects on mobile app development)
- 3) Include python, cloud computing, Devops, Bigdata
Introduction of above topics

Neena Sajjana

S. Neena

Name & Signature: *Datastage*

Designation: *Team lead*

IBM India Pvt Ltd




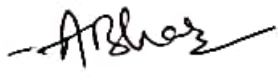
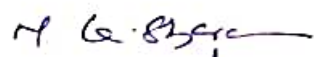
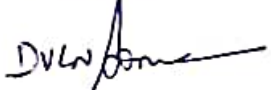




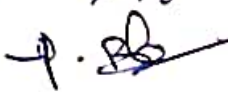
**Minutes of the meeting of Board of Studies (BoS)
for 4-Year B.Tech Degree Programme in Information Technology
Kakatiya Institute of Technology & Science, Warangal
(An Autonomous Institute under Kakatiya University, Warangal)**

Date : 16-06-2018

Time : 10:00 AM

Venue : Information Laboratory, Dept. of IT, KITS, Warangal

Members of Board of Studies in IT course, KITSW:

- | | | | |
|--|-----|--|---|
| 1. Dr.P.Kamakshi
Professor & Head, Dept. of IT, KITSW | --- | Chairperson, BoS of IT |  |
| 2. Smt. G.K.Shailaja
Assoc.Prof. of IT, KITSW | --- | Member |  |
| 3. Sri. B.Kiran Kumar
Assoc.Prof. of IT, KITSW | --- | Member |  |
| 4. Sri. A.Bhaskar
Assoc.Prof. of IT, KITSW | --- | Member |  |
| 5. Sri. M.Kishore
Asst.Prof. of IT, KITSW | --- | Member |  |
| 6. Dr.D.V.L.N.Somayajulu
Professor, Dept. of CSE,
NIT, Warangal | --- | External Member |  |
| 7. Dr.G.Narsimha
Professor, Dept. of CSE,
JNTUH College of Engineering, Sultanpur | --- | External Member |  |
| 8. Dr. R.B.V. Subramanyam
Professor & Head, Dept. of CSE,
NIT, Warangal | --- | External Member
(University nominee) |  |
| 9. Sri Sandeep Shrivishwanath
Asst. General Manager,
Hinduja Global Solutions International Pvt. Ltd.,
DLF-Gachibowli, Hyderabad. | --- | External Member
(from Industry) |  |
| 10. Smt. Veena Sanjana
Technical Team leader,
IBM India Pvt. Ltd., Hyderabad. | --- | External Member
(Post Graduate Meritorious Alumnus) |  |
| 11. Smt. Y.Bhavani
Assoc.Prof. of IT, KITSW | --- | Co-Opted Member |  |



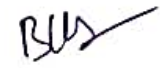
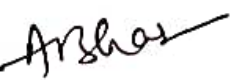
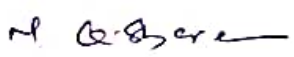
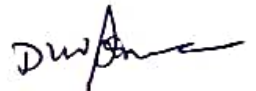
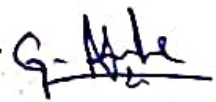


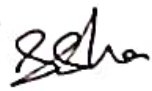

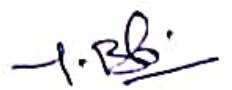
Agenda:

1. Finalization and Approval of Scheme of Instruction & Evaluation for 1st to VIIIth Semesters of Four Year B.Tech. Information Technology (IT) programme for the batches admitted from the academic year 2018-19.
2. Any other matter with the permission of chair.

RESOLUTIONS

1. Resolved to follow the model curriculum/course structure as suggested by AICTE, New Delhi and CBCS & Credit Based Semester System as denoted by UGC, New Delhi.
2. Resolved to follow the scheme with 160 credit system as suggested by AICTE.
3. Resolved to approve the finalized Scheme of Instruction & Evaluation for 1st to VIIIth Semesters of Four Year B.Tech. Information Technology (IT) programme for the batches admitted from the academic year 2018-19.

MEMBERS PRESENT:

- | | | |
|---|-----|--|
| 1. Dr.P.Kamakshi
<i>Professor & Head, Dept. of IT, KITSW</i> | --- | Chairperson, BoS of IT  |
| 2. Smt. G.K.Shailaja
<i>Assoc.Prof. of IT, KITSW</i> | --- | Member  |
| 3. Sri. B.Kiran Kumar
<i>Assoc.Prof. of IT, KITSW</i> | --- | Member  |
| 4. Sri. A.Bhaskar
<i>Assoc.Prof. of IT, KITSW</i> | --- | Member  |
| 5. Sri. M.Kishore
<i>Asst.Prof. of IT, KITSW</i> | --- | Member  |
| 6. Dr.D.V.L.N.Somayajulu
<i>Professor, Dept. of CSE,
NIT, Warangal</i> | --- | External Member  |
| 7. Dr.G.Narsimha
<i>Professor, Dept. of CSE,
JNTUH College of Engineering, Sultanpur</i> | --- | External Member  |
| 8. Dr. R.B.V. Subramanyam
<i>Professor & Head, Dept. of CSE,
NIT, Warangal</i> | --- | External Member
(University Nominee)  |
| 9. Sri Sandeep Sha  Vishwanath
<i>Asst. General Manager,
Hinduja Global Solutions International Pvt. Ltd.,
DLF-Gachibowli, Hyderabad.</i> | --- | External Member
(from Industry)  |
| 10. Smt. Veena Sanjana
<i>Technical Team Leader,
IBM India Pvt. Ltd., Hyderabad.</i> | --- | External Member
(Post Graduate Meritorious Alumnum)  |
| 11. Smt. Y.Bhavani
<i>Assoc.Prof. of IT, KITSW</i> | --- | Co-Opted Member  |



**RULES AND REGULATIONS FOR UNDERGRADUATE PROGRAMME -
 B.TECH 4-YEAR DEGREE PROGRAMME (URR-18)
 CHOICE BASED CREDIT SYSTEM (CBCS)
 (Applicable from the academic year 2018-19)**

1. INTRODUCTION

- 1.1 Kakatiya Institute of Technology & Science, Warangal (KITSW) is an UGC autonomous institute under Kakatiya University (KU) Warangal. The institute offers 4 year (8 semesters) Bachelor of Technology (B.Tech) degree programme, under Choice Based Credit System (CBCS) with effect from the academic year 2018-19.
- 1.2 The provisions contained in these regulations given the conditions for imparting course of instructions, conducting examinations and evaluation of students' performance leading to B.Tech. 4-year degree programme to be offered by the Kakatiya Institute of Technology & Science, Warangal and awarded by Kakatiya University, Warangal.
- 1.3 These regulations shall be called the *Kakatiya Institute of Technology & Science, Warangal (KITSW) regulations for the award of B.Tech 4-year degree programme by Kakatiya University, Warangal.*
- 1.4 They shall come into effect from the date of getting approval from the Academic Council of the Kakatiya Institute of Technology & Science, Warangal
- 1.5 They shall be applicable for all students enrolling for B.Tech 4-year degree programme at the Kakatiya Institute of Technology & Science, Warangal from the academic year 2018-19.

2. DEFINITIONS

- 2.1 "B.Tech." means Bachelor of Technology, an Under Graduate Degree awarded from the Kakatiya University, Warangal
- 2.2 "University" means Kakatiya University, Warangal
- 2.3 "Institute" means Kakatiya Institute of Technology & Science, Warangal
- 2.4 "UGC" means University Grants Commission, New Delhi
- 2.5 "AICTE" means All India Council for Technical Education, New Delhi
- 2.6 "MHRD" means Ministry of Human Resource & Development, Govt. of India, New Delhi
- 2.7 "TSCHE" means Telangana State Council for Higher Education, Govt. of Telangana, Hyderabad
- 2.8 "GB" means Governing Body of the Institute
- 2.9 "AC" means Administrative Committee of the Institute
- 2.10 "FC" means Finance Committee of the Institute
- 2.11 "Academic Council" means Academic Council of the Institute
- 2.12 "Principal" means Principal of the Institute
- 2.13 "Dean" means Dean of specific affairs of the Institute
- 2.14 "HoD" means Head of the Department of specific programme offered by the Institute
- 2.15 "BoS" means Board of Studies in the engineering of a specific programme offered by the Institute
- 2.16 "CoE" means Controller of Examinations of the Institute.

3. UNDER GRADUATE PROGRAMMES

- 3.1 The Institute shall offer the following Under Graduate Programmes under CBCS:
 - 1. B.Tech Civil Engineering (CE)
 - 2. B.Tech Mechanical Engineering (ME)
 - 3. B.Tech Electronics & Instrumentation Engineering (EIE)
 - 4. B.Tech Electrical & Electronics Engineering (EEE)
 - 5. B.Tech Computer Science & Engineering (CSE)
 - 6. B.Tech Electronics & Communication Engineering (ECE)
 - 7. B.Tech Information Technology (IT)
 - 8. B.Tech Electronics Communication & Instrumentation Engineering (ECI)
 - 9. B.Tech Computer Science & Engineering (Networks) (CSEN)

Bees Arhan H. G. ... JWS ... Siba Silvana P.R.

3.2 The provisions of these regulations shall also be applicable to any new undergraduate programmes that are introduced from time to time with approval from appropriate bodies such as MHRD / AICTE / UGC, etc. 7.

- 4. ADMISSION**
- 4.1 a) Candidates seeking admission to 1st year of the Four Year B.Tech. degree programme shall have passed the Intermediate Examination of the Board of Intermediate Education, Telangana with Mathematics and Physical Sciences (Physics and Chemistry) as optional subjects or any other examination recognized by the University as equivalent to it.
 b) **Lateral Entry:** Candidates seeking admission directly into 2nd year of 4-year B.Tech. degree programme as "Lateral Entry" student shall have passed 3 year full time Diploma (10th Std) offered by State Board of Technical Education and Training, Telangana or any other examination recognized by the University as its equivalent.
- 4.2 The Admissions shall be made in accordance with the guidelines issued by TSCHE.
- 4.3 **Change of Branch:** There is a provision for change of branch in B.Tech. III semester level in accordance with guidelines provided by Commissioner of Technical Education, Government of Telangana State. Branch change shall be strictly according to the merit list prepared by the Institute from the regular students on the basis of total marks obtained by the student in I & II semester examinations put together. Only those students who have passed in all the subjects in single attempt shall be eligible to apply for change in branch, provided there is a vacancy in a particular branch limited to prescribed / approved intake by AICTE in the previous academic session when the students were admitted at I semester level.
- Vacancy in a particular branch**
 = Approved intake - (No. of regular students + No. of repeaters)

5. ACADEMIC SESSION

- 5.1 Each academic session is divided into two semesters (odd and even), each of 16 weeks including two Mid Semester Examinations (MSE).
- a) **Odd Semester:** From June/July to October/November of academic year. However, the academic session of the first semester will be decided based on counseling schedule declared by the TSCHE.
- b) **Even Semester:** From November/December to March/April of academic year.
- 5.2 The Institute shall announce the schedule for all the academic activities well before commencement of the academic year and take all the necessary steps to follow it scrupulously.
- 5.3 The academic activities in a semester normally include registration, course work, Continuous Internal Evaluation (CIE), End Semester Examination (ESE) and declaration of results.

6. REGISTRATION

- 6.1 All the students are required to register in person at the beginning of each academic year on the dates specified in the academic calendar (almanac).
- 6.2 The sole responsibility for registration rests with the student concerned.
- 6.3 Registration of students will be centrally organized by the Academic section.
- 6.4 The Registration procedure involves:
- a) Filling of the prescribed registration form
 b) Payment of fees and clearance of outstanding dues (if any)
 c) Signing undertakings (undertaking for regular attendance, discipline and against ragging) along with the parents
- 6.5 If for any compelling reasons like illness, etc., a student is unable to register on the day of registration, he/she can register within 12 working days from the beginning of the academic year on payment of an additional late fee as prescribed by the Institute.
- 6.6 **No late registration shall be permitted after 12th working day from the scheduled commencement of class work for that academic year.**
- 6.7 Only those students will be permitted to register who have
- a) cleared all institute and hostel dues of previous semesters
 b) paid all required prescribed fees for the current academic year
 c) not been debarred / detained from registering for a specified period on disciplinary or other grounds
 d) cleared the minimum academic requirement as detailed in Regulation No. 15

7. CURRICULUM

- 7.1 The Model curriculum/ Course structure as suggested by AICTE, New Delhi; CBCS and Credit Based Semester System (CBSS) as denoted by UGC, New Delhi is followed for all UG programmes.
- 7.2 a) The duration of the programme leading to B.Tech degree will be 8 semesters (4 academic years)
b) However, for the lateral entry students, the duration of the program leading to B.Tech degree will be 6 semesters (3 academic years)
- 7.3 The curricula for different degree programmes as proposed by the department and recommended by the BoS shall have the approval of the Academic Council.
- 7.4 As suggested by AICTE, the courses offered for UG programme are broadly classified as: Basic science courses (BSC), Engineering science courses (ESC), Humanities and social sciences including management courses (HSMC), Professional core courses (PCC), Professional Elective (PE) courses, Open Elective (OE) courses, Mandatory courses (MC) and Project (PROJ) based courses
- 7.5 The courses offered would have a *Lecture - Tutorial - Practical (L-T-P)* component to indicate contact hours. Separate laboratory (practical) course may exist (0-0-P) in certain cases as decided.
- 7.6 The academic programmes of the Institute follow the credit system.
- 7.7 Each course shall have credits(C), which reflects its weightage. The number of credits of a course in a semester shall ordinarily be calculated as under:

$$\text{Number of credits of a course, } C = L + T + (P/2)$$

- where L, T, P represent the No. of Lecture, Tutorial and Practical hours / week
- 7.8 The students admitted for B.Tech. programme under Lateral Entry scheme have to be offered a mandatory course on "Environmental Studies" in the 4th semester of B.Tech. programme.
- 7.9 Course Code: Each course offered in the Undergraduate (B.Tech.) curriculum at this institute shall be listed by using a total of 8 digits, as follows:

Ex: U18ME106

- a) The first letter, to represent the Under Graduate Programme
Ex. U for Undergraduate Course
- b) The next two numericals, to represent the year in which the syllabus is proposed / revised.
Ex. 18 for the year 2018 from which syllabus is applicable for the batches admitted from academic year 2018-19
- c) The next two letters, to represent the concerned department offering that course.
Ex. ME for Mechanical Engineering
- d) The last three numerical, to represent the course number and semester in which it is being offered.
Ex. XYZ; X - Semester number ; YZ - Course number
106 represents course number 06 offered in first semester

In general, a course code "U18ME106" represents an Undergraduate Course number-06 for the batches admitted from the year 2018 offered by the Department of Mechanical Engineering in first semester.

- 7.10 The syllabus of each course in the B.Tech. curriculum shall be divided into four (4) units.

8. ATTENDANCE

- 8.1 All the students are normally required to have 100% attendance in aggregate. However, condonation for shortage of attendance upto 25% may be granted by the principal based on recommendation of HoD concerned.
- 8.2 The condonation for shortage of attendance upto 25% (as mentioned in Regulation No. 8.1) shall be taken up only when the student takes prior permission for his absence stating fully the genuine reasons along with supporting documents to the HoD concerned.
- 8.3 Hence, students not having the mandatory requirement of minimum 75% of attendance in aggregate shall be detained and shall not be permitted to appear for the MSE-II & ESE of that semester.
- 8.4 All such students who are detained have to repeat the entire semester when it is offered, by following the due registration procedure.
- 8.5 Attendance of all courses shall be entered before the end of each working day by the faculty concerned through the College Management System (CMS) portal of the institute website.

Ashas
PK
R.S. V. D. S.
G. A. H.
S. S. H.
S. V. K.
P. S. B.

Students are advised to monitor the status of their attendance through this CME's portal.

9. CONDUCT AND DISCIPLINE

- 9.1 All students shall be required to conduct themselves in a manner befitting the reputation of the institution within and outside the premises of the Institute; and are expected to complete their studies without any break.
- 9.2 As per the order of Hon'ble Supreme Court of India, tagging in any form is strictly prohibited. Involvement of a student in tagging will be considered as a gross indiscipline and may result in his / her expulsion from the Institute.
- 9.3 Detailed rules regarding the conduct and discipline (code of conduct) are made available on the Institute website.

10. EVALUATION PROCEDURE

- 10.1 The evaluation of students in every course of 4-year B.Tech. programme (8 semesters) and Liberal Entry students of B.Tech. programme (6 semesters), is a continuous process based on their performance in different examinations as mentioned below:
 - a) Sessional involving Continuous Internal Evaluation (CIE) conducted all through the semester which includes Teachers Assessment (TA) through assignments and Mid Semester Examinations (MSE)
 - b) Terminal often designated as End Semester Examination (ESE) which includes an examination for theory courses and practical/ design/ drawing examination with theoretical part for laboratory/ design/ drawing courses.
- 10.2 A student's performance in a course (subject) shall be judged by taking into account the marks of CIE and ESE together.
- 10.3 CIE and ESE shall have 40:60 weightage i.e. CIE carrying 40% weightage and ESE carrying 60% weightage.
- 10.4 Continuous Internal Evaluation (CIE) for Theory Course:
 - 10.4.1 CIE throughout the semester shall consist of TA and MSE.
 - 10.4.2 The distribution given to each component of CIE for a theory course is given below:

S. No.	Particulars	Weightage
1.	Teacher's Assessment (TA) (Assignments)	10%
2.	Mid Semester Examination (MSE) (MSE-I & MSE-II)	30%
Total Weightage		40%

10.4.3 TA:

- a) There shall be 2 Assignments and 2 Minor exams (Quiz/Slip test, etc.) for each subject at regular intervals of time
- b) Minor-I shall be based on Unit-I syllabus, Minor-II shall be based on Unit-II syllabus. Assignment-I shall be based on Unit-I & Unit-II syllabi and to be submitted before MSE-I, Assignment-II shall be based on Unit-III & Unit-IV syllabi and to be submitted before MSE-II.
- c) Average of Assignment-I, Assignment-II, Minor-I and Minor-II marks shall be taken under TA

10.4.4 MSE:

- a) There shall be two mid semester examinations (MSE-I and MSE-II) of 30 marks duration each.
 - b) It is mandatory for the student to take both MSEs
 - c) MSE evaluation shall be done as given below:
 MSE marks awarded = (70% of the best of MSE-I & MSE-II marks) + (30% of the other MSE marks)
- Ex: A student secured following marks
 MSE-I marks : 10 out of 30
 MSE-II marks : 20 out of 30
 MSE marks awarded = (70% of 20) + (30% of 10) = 14 + 3 = 17

10.4.5 The marks obtained by the students in MSE must be submitted to the CoE Examination (CoE) by the teachers within 1 week from the date of evaluation.

10.4.6 The dates for MSE and ESE will be declared by the CoE in consultation with the Academic Affairs.

Handwritten signatures and initials:
 S. Veena, R. B. Prasad, G. A. H., A. B. G. S.

10.5 **End Semester Examination (ESE) for Theory Course:**
There shall be an End Semester Examination (ESE) at the end of each semester for three hour duration for each course.

10.6 **Continuous Internal Evaluation (CIE) for Practical (Laboratory) Course:**

10.6.1 CIE for practical course shall carry 40% weightage.

10.6.2 CIE throughout the semester shall consist of the following:

Assessment	Weightage
Regular Experimentation / Job work and Viva-voce	20%
Regular submission of record	10%
Quiz / Skill test / Viva-voce at the end of semester	10%
Total Weightage	40%

10.7 **End Semester Examination (ESE) for Practical (Laboratory) Course:**

10.7.1 There shall be an ESE at the end of each semester for three hour duration for each practical course.

10.7.2 The ESE for practical course shall carry 60% weightage.

10.7.3 The marks distribution at ESE shall be as follows:

Assessment	Weightage
Procedure / Experimentation / Tabulation / Result, as applicable ...	45%
Viva-voce	15%
Total Weightage	60%

10.8 **Continuous Internal Evaluation (CIE) for Seminar & Mini Project :**

10.8.1 **Seminar:**

- The HoD shall constitute a *Departmental Seminar Evaluation Committee(DSEC)*
- DSEC shall allot a faculty supervisor to each student for guiding on
 - Selection of topic
 - Literature survey and work to be carried out
 - Preparing a report in proper format and
 - effective seminar presentation
- There shall be only continuous Internal Evaluation (CIE) for seminar
- The CIE for seminar is as follows:

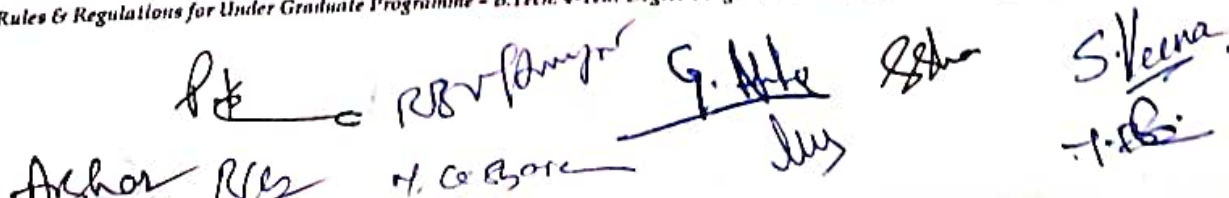
Assessment	Weightage
Seminar Supervisor Assessment	20%
Seminar Report	30%
DSEC Assessment: Oral presentation (PPT) and viva-voce	50%
Total Weightage:	100%

Note: It is mandatory for the candidate to appear for oral presentation and Viva-voce to qualify for course evaluation.

- The candidate has to register the Seminar as supplementary examination in the following cases:
 - he/she is absent for oral presentation and viva-voce
 - he/she fails to submit the report in prescribed format
 - he/she fails to fulfil the requirements of seminar evaluation as per specified guidelines
- The CoE shall send a list of candidates registered for supplementary to the HoD concerned
 - The DSEC, duly constituted by the HoD, shall conduct seminar evaluation and send the award list to the CoE within the stipulated time

10.8.2 **Mini Project:**

- The HoD shall constitute a *Departmental Mini Project Evaluation Committee (DMPEC)*
- Every student shall take up independent Mini project on innovative ideas. However, wherever not feasible a group of 2 to 4 students shall be allowed to take up mini project. The DMPEC shall take a decision on number of students in a group.
- DMPEC shall allot a faculty supervisor to each group for guiding on
 - selection of topic
 - literature survey and work to be carried out
 - preparing a report in proper format and
 - effective mini project oral presentation.
- There shall be only continuous Internal Evaluation (CIE) for mini project



 Achar R/S, N. C. Bore, G. Akle, S. Veena, T. B.

e) The CIE for mini project is as follows:

Assessment	Weightage
Mini project Supervisor Assessment	20%
Working model developed under mini project	40%
Final Report on mini project	20%
DMPEC Assessment: Oral presentation (PPT) and viva-voce	20%
Total Weightage:	100%

Note: It is mandatory for the candidate to appear for oral presentation Viva-voce to qualify for course evaluation.

- f) The candidate has to register the Mini project as supplementary examination in the following cases:
- i) he/she is absent for oral presentation and viva-voce
 - ii) he/she fails to submit the report in prescribed format
 - iii) he/she fails to fulfill the requirements of Mini project evaluation as per the specified guidelines.
- g) i) The CoE shall send a list of candidates registered for supplementary examination to the concerned
ii) The DMPEC duly constituted by the HoD, shall conduct Mini project evaluation and send the award list to the CoE within the stipulated time.

10.9 Evaluation for Major Project Work:

10.9.1 Major Project work shall be normally conducted in two stages: Major project work Phase-I in seventh semester and Major project work Phase-II in eighth semester

10.9.2 Major Project Phase-I:

- a) The HoD shall constitute a Departmental Project Evaluation Committee (DPEC)
- b) There shall be only continuous Internal Evaluation (CIE) for Major Project Phase-I
- c) CIE for the Major Project Phase-I in seventh semester is as follows:

Assessment	Weightage
Project Supervisor Assessment	50%
DPEC Assessment: Registration Presentation, Progress presentation-I, Report submission, Oral presentation (PPT) and Viva-voce	50%
Total Weightage:	100%

Note: It is mandatory for the candidate to appear for oral presentation and Viva-voce to qualify for course evaluation.

- d) The candidate has to register the Major Project Phase-I as supplementary examination in the following cases:
- i) he/she is absent for oral presentation and viva-voce
 - ii) he/she fails to submit the report in prescribed format
 - iii) he/she fails to fulfil the requirements of Major Project Phase-I evaluation as per the specified guidelines
- e) i) The CoE shall send a list of candidates registered for supplementary examination to the concerned
ii) The DPEC duly constituted by the HoD, shall conduct Major Project Phase-I evaluation and send the award list to the CoE within the stipulated time.

10.9.3 Major Project Phase-II:

- a) Student has to continue the Major Project work in 8th semester as Major Project Phase-II
- b) The evaluation for Major Project work Phase-II is as follows:

Assessment	Weightage
Project Supervisor Assessment	30%
DPEC Assessment: Progress presentation-II, Final presentation & Viva-voce and Final Project Report	30%
End Semester Examination: Oral presentation (PPT) & Viva-voce	40%
Total Weightage:	100%

Note: It is mandatory for the candidate to appear for oral presentation Viva-voce to qualify for course evaluation.

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G. H. H.
Arshon

T. S. S.

c) DPEC shall decide the course of action on the students, who fail to complete the Major Project work Phase-II, submit final project report and give oral (PPT) Presentation

10.10 Evaluation for Internship:

- 10.10.1 The students shall undergo 6-8 weeks internship during summer/winter vacation at industry/R&D organization / Academic Institutes like IITs & NITs
- 10.10.2 The students preferably shall undergo internship at one organization only. In case of any difficulty, the stipulated period of internship shall be completed at different organizations with minimum of one week internship at every stage
- 10.10.3 The internship evaluation shall be done in the VII semester of study and hence the students shall complete the prescribed period of internship before start of VII semester (from end of II semester to commencement of VII semester)
- 10.10.4 The internship evaluation shall be done by Departmental Project Evaluation Committee (DPEC) based on the submitted report by student and oral presentation

10.11 Evaluation of MOOCs:

- 10.11.1 a) SWAYAM-MOOCs: Massive Open Online Courses (MOOCs) are such online courses which are developed as per the pedagogy and made available on the SWAYAM (Study Web of Active-learning by Young and Aspiring Minds) platform of Government of India
- b) SWAYAM shall notify to all Institutions, on 1st June, 1st November every year, the list of online learning courses going to be offered in the forth coming semester.
- 10.11.2 a) The student shall be allowed to register for MOOCs courses for the designated Professional electives and Open electives mentioned in the curriculum.
- b) The student shall select a relevant MOOCs course carrying 3 credits.
- 10.11.3 The Institutional MOOCs coordinator with the help of departmental MOOCs coordinator shall guide the students throughout the course.
- 10.11.4 Evaluation and Certification of MOOCs:
- a) The Principal Investigator (PI) shall be a subject matter expert (SME) belonging to a reputed educational institution, called Host Institution
- b) The host Institution and PI shall be responsible for evaluating the registered students for MOOCs course
- c) After conduct of examination and completion of the evaluation, the PI through host institution shall award Marks/Grade as per the evaluation scheme announced.
- 10.11.5 Credit Mobility of MOOCs:
- a) Institution shall allow the credit mobility for the courses earned through MOOCs.
- b) A certificate regarding successful completion of the MOOCs courses shall be issued through host Institution and sent to the parent institution.
- c) The parent institution shall give equivalent credit weightage to the students for the credits earned through online learning courses through SWAYAM platform in the credit plan of the programme.
- 10.11.6 In case the student is unable to complete the MOOCs course, he/she shall be allowed to select one of courses listed under respective PE/OE offered at institute/department concerned and appear for supplementary examination. In such case, the student is deemed to have passed the course, if he/she scores minimum 35% of maximum marks allotted to the course in the registered supplementary ESE only (i.e. 35 marks out of 60 in ESE)

11. MINIMUM REQUIREMENT FOR PASSING A COURSE

- 11.1 Theory Course: A student is deemed to have passed in a theory course, if he / she secures
- a) 35 percent of marks assigned to End Semester Examination (ESE) and
- b) 35 percent of marks assigned to the Mid Semester Examination (MSE) & End Semester Examination (ESE) of the course taken together and

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Arshad ... B. S. ... M. S. ... J. S. ... S. V. ...

- c) 35 percent of marks assigned to Teacher's Assessment (TA), Mid Semester Examination (MSE) and End Semester Examination (ESE) of the course taken together.
- 11.2 The marks assigned to MSE will be considered as per the Regulation no. 10.4.4
- 11.3 Laboratory Course: A student is deemed to have passed in a laboratory course, if he / she secures
 - a) 35 percent of marks assigned to End Semester Examination (ESE) and
 - b) 35 percent of marks assigned to the Teacher's Assessment (TA) and End Semester Examination (ESE) of the laboratory course taken together.

12. GRADING SYSTEM

- 12.1 At the end of the semester a student is awarded a letter grade in each of his / her courses taking into account the total marks secured (X) in that course
where, X = Marks secured in CIE + Marks secured in ESE
- 12.2 For arriving at a grade obtained by a student in a particular course (subject), initially marks obtained by the student out of 100 are to be determined. Once a numeric mark obtained, the same is to be converted to a letter grade following the guidelines given below.
- 12.3 The Institute shall follow absolute grading system. The grades will be awarded to each student as under:

Grade	Total Marks Secured (X)
S	$X \geq 90$
A	$80 < X < 90$
B	$70 < X < 80$
C	$60 < X < 70$
D	$45 < X < 60$
P	$35 < X < 45$
F	$X < 35$

- 12.4 The typical grades and their numerical equivalents on 10-point scale (called Grade Points) as follows:

Performance	Letter Grade	Grade Points (G _i)
Superior	S	10
Excellent	A	9
Very Good	B	8
Good	C	7
Average	D	6
Pass	P	4
Fail	F	0

- 12.5 F-Grade is a Fail Grade. The course in which the student has earned F-Grade will be treated as a backlog course.
- 12.6 In addition, there shall be a transitional M-Grade. M-Grade for "Debarred" due to indiscipline / malpractice during examination.
- 12.7 A Semester Grade Point Average (SGPA) will be computed for each semester. The SGPA will be calculated as follows:

$$SGPA = \frac{\sum_{i=1}^n C_i G_i}{\sum_{i=1}^n C_i}$$

where 'n' is the no. of courses (subjects) offered (excluding mandatory non-credit courses) in the semester, 'C_i' is the credits allotted to a particular course, 'G_i' is the grade-points corresponding to the letter corresponding to the grade awarded to the student for the course as illustrated in 12.4.

- 12.8 The SGPA would indicate the performance of the student in the semester to which it applies. SGPA will be rounded off to the second place of decimal and recorded as such.

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- 12.9 Starting from the second semester, at the end of each semester, a Cumulative Grade Point Average (CGPA) will be computed for every student as follows:

$$CGPA = \frac{\sum_{i=1}^m C_i G_i}{\sum_{i=1}^m C_i}$$

where 'm' is the total number of courses (subjects) the student has been offered from the first semester onwards upto and including the present semester, 'C_i' and 'G_i' are as explained in 12.7.

- 12.10 The CGPA would indicate the cumulative performance of the student from the first semester up to the end of the semester to which it refers. CGPA will be rounded off to the second place of decimal and recorded as such.
- 12.11 SGPA and CGPA are calculated in consideration of only credits cleared, i.e. F-Grade credits are not included for calculation.

13. SUPPLEMENTARY EXAMINATIONS

- 13.1 A student who obtained the F-Grade in a course (theory or practical) can appear in a subsequent End Semester Examination (ESE) in the same course as supplementary candidate.
- 13.2 However the marks secured in Continuous Internal Evaluation (CIE) by the student in that course during the semester study shall remain unaltered.
- 13.3 The students those who have passed in the supplementary examination will be awarded grade with '*' marked on the courses passed in the supplementary.
- 13.4 Makeup Examination for VIII semester courses:
Makeup Examination for the students having backlog courses at VIII semester of 4th year B.Tech. programme shall be conducted immediately after the release of VIII semester regular examinations result.

14. REVALUATION

- a) Revaluation is allowed for only theory courses.
- b) If the award of the revaluator varies from the original award by less than 20% of maximum marks prescribed for the course, best of the two awards thus available shall be taken as final.
- c) If the award of the revaluator varies from the original award by more than 20% of the maximum marks prescribed for the course, the answer script will be examined by the second revaluator. If the award of the both revaluators is more than 20% of the maximum marks, then average of the two awards thus available shall be taken as final. Otherwise, best of the original award and the second revaluator award shall be taken as final.

15. CONDITIONS FOR PROMOTION

- 15.1 A student shall have to satisfy the attendance requirements for the semester (as per the Regulation No. 8) for promotion to the next higher semester. In addition,
- a) for promotion to the fifth semester, a student should not have more than four backlogs in the first and second semesters taken together.
- b) for promotion to the seventh semester, a student should not have more than four backlogs in the courses of first to fourth semester taken together.
- c) the grade (marks) secured in mandatory non-credit courses will not be counted for the purpose of backlogs. However, a minimum P-Grade is compulsory in those courses for the award of the degree.

16. IMPROVEMENT EXAMINATION

- 16.1 Students who wish to improve their SGPA / CGPA are permitted for SGPA / CGPA improvement only for theory courses. The student may opt to re-appear all the courses of a semester at the immediately succeeding End Semester Examination (ESE) for improving his / her grades. However, the students should clear all the courses of a particular semester in which he / she intends to take an improvement examination.
- 16.2 Further, when once the student appears for the improvement examination he / she shall forego the grades secured in the earlier End Semester Examination (ESE) in the whole set of courses prescribed for that semester. However, the marks secured in Continuous Internal Evaluation (CIE) by the student in those courses during the semester study shall remain unaltered.

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16.3 Students those who have re-appeared for improvement will be awarded grade with 'S' on the courses appeared for improvement examination. 'S' will state the grade improvement. Such improved grades will not be counted for the award of Prizes, Medals and Rank.

16.4 However, the students who register for improvement examinations and wish to drop the examinations, by written application to the CoE, before commencement of examinations, shall be permitted to retain their earlier grades.

17. GRADUATION REQUIREMENT

17.1 A student shall be declared to be eligible for award of the B.Tech. degree, if he / she is registered and completed all the courses with a minimum P-grade scored in every course and secured a total of stipulated 160 credits.

17.2 Normally a student should complete all the requirements consecutively in 8 semesters (4 academic years) for the award of B.Tech. degree. However, the students who fail to fulfill the requirements for the award of B.Tech. degree within a period of 16 consecutive semesters (8 academic years from the registration in 1st semester) shall forfeit his / her enrolment to the program.

17.3 The students admitted in the lateral entry scheme should complete all the requirements consecutively in 6 semesters (3 academic years) for award of B.Tech. degree. However, the students who fail to fulfill all the requirements for the award of B.Tech. degree within a period of 12 consecutive semesters (6 academic years from the registration in 3rd semester) shall forfeit his / her enrolment to the program.

17.4 a) CGPA to Percentage conversion: As per UGC and AICTE guidelines, the CGPA will be converted to percentage of marks as below:

$$\text{Percentage of marks} = (\text{CGPA} - 0.75) \times 10$$

$$\text{Ex: If CGPA is 6.75, the equivalent Percentage of marks} = (6.75 - 0.75) \times 10 = 60\%$$

b) CGPA to Class conversion:

S.No.	Division	Eligibility Criteria
1	First Division with Distinction	a) Student should secure CGPA ≥ 7.75 b) Student should pass all the courses along with the best students admitted with him / her within 8 consecutive semesters (6 consecutive semesters for lateral entry students) c) Student who appeared for improvement examination upper semester will also be considered d) Student who have cleared any course in supplementary examination shall not be awarded Distinction
2	First Division	a) Student should secure CGPA, which is $6.75 \leq \text{CGPA} < 7.75$ within the time frame of the programme i.e. 16 semesters (12 semesters in case of lateral entry students) b) Student who have cleared any course in supplementary examination and secured CGPA ≥ 6.75
3	Second Division	Student should secure CGPA, which is $5.75 \leq \text{CGPA} < 6.75$ within the time frame of the programme i.e. 16 semesters (12 semesters in case of lateral entry students)
4.	Pass Division	Student should secure CGPA, which is $4.25 \leq \text{CGPA} < 5.75$ within the time frame of the programme i.e. 16 semesters (12 semesters in case of lateral entry students)
5.	Fail	Student with CGPA < 4.25 will not be eligible for award of degree

17.5 A student will be eligible to get Under Graduate degree with Honours (or) additional in Engineering, if he/she completes an additional 20 credits. These 20 credits could be acquired through MOOCs/ NPTEL. (These additional 20 credits earned through MOOCs/ NPTEL should be in addition to the credits acquired through SWAYAM - MOOCs offered in the curriculum as part of Professional Electives/ Open Electives).

17.6 The University will award degrees to the students who are evaluated and recommended by the Institute.

S. Teena

R. R. R. Arghas

G. Arghas

18. MALPRACTICE IN EXAMINATION

- 18.1 Malpractice in examination is an illegal activity and is prohibited.
 18.2 Mobile phones are strictly prohibited in the examination hall.
 18.3 Exchange of question paper and material like pen, pencil, sharpener, eraser, scale, calculator, etc., during examination is strictly prohibited.
 18.4 Malpractice in examination is viewed very seriously. Malpractice includes oral communication between candidates, possessing forbidden material, mobile phones (switched off/on) etc.
 18.5 Any malpractice or engaging in any improper conduct and violation of the examination code by the student during examinations is liable for the punishment as given below:

S. No	Nature of Malpractice	S. No	Punishment
1.	Taking help from others, consulting and or helping other examinees during the examination period inside the examination hall or outside it, with or without their consent or helping other candidates to receive help from anyone else	a)	Cancelling the examination of the paper in which he / she indulged in malpractices
2	If the examinee attempts to disclose his / her identity to the valuer by writing his / her Hall-Ticket Number at a place other than the place prescribed for it or any coded message including his / her name or addressing the valuer in any manner in the answer book		Cancelling the examination of the paper in which he / she indulged in malpractices
3.	Candidate is found in possession of forbidden material; relevant or not relevant <u>but not used</u>	b)	Cancellation of the result of (i) all examinations taken including current examination in that session (or) (ii) current examination and proposed examinations to be taken during that session (or) (iii) current examination
4.	Destroying the material found in his / her possession or acting in any other manner with a view to destroying evidence	c)	Cancellation of the result of all examinations taken or proposed to be taken during that session and prohibiting his/her admission to or continuation in any course of the Institute for a period of one year. The student will be eligible to appear for the next corresponding semester / year examination in the succeeding academic year
5.	Smuggling main answer book / additional answer book / question paper / matter in to or out of the examination hall & Conspiring to interchange Hall Ticket Numbers		-do-
6.	Candidate is found in possession of forbidden material, relevant or not relevant <u>but used</u>		-do-
7.	In case of (i) impersonation, (ii) misbehavior with the invigilators/any person related to examination work, (iii) insertion of written sheets in different hand writing in the main/additional answer book, and (iv) creation of disturbance in and around the	d)	Cancellation of the result of all examinations taken or proposed to be taken during that session and prohibiting his/her admission in to or continuation in any course of the Institute for a period of two years. Further,

P.K. Arshad
 R.R. Sanyal
 G. A. Sanyal
 S. Veena
 M. G. Sanyal
 J. Sanyal
 Y. Sanyal

	examination hall during or before the examination		the candidate shall not be allowed to appear for the examination during the period of punishment
8.	If a candidate is found guilty of malpractice in the improvement examination (after completion of course)	e)	Punishment will be awarded subject to the above rules. Further, he/she will not be permitted to appear for the improvement examination

19. ROLL NUMBER ALLOTMENT

The Roll Number given to the student shall have a total 8 digits as follows:

Ex: B18CE108

- The first letter, to represent Bachelors (B.Tech.) degree programme.
Ex: B for B.Tech. programme
- The next two numerical, to represent the year in which the student admitted into 1st year.
Ex: 18 for 2018
- The next two letters, to represent the concerned department to which the student belongs.
Ex: CE for Civil Engineering
- The last three numerical, to represent the three digit roll number of the student.
In general, a student with roll number "B18CE108" represents a B.Tech. Student of Civil Engineering department admitted in the year 2018 bearing a roll number of 108.

20. AMENDMENTS

Notwithstanding anything contained in this manual, the Academic Council of the Institute reserves the right to modify / amend the curricula, requirements and rules & regulations pertaining to undergraduate programmes, without any further notice.

S. Veena, S. S. S., R. S. R. S.
Ashar, R. S., T. S.
N. C. S., S. S.
P. S.

G. S.
Dr. G. Narasimha
Prof. and Head
JNTUH

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DEPARTMENT OF INFORMATION TECHNOLOGY
KAKATIYA INSTITUTE OF TECHNOLOGY AND SCIENCE :WARANGAL - 15

BoS Meeting



External BoS member Dr. R.B.V. Subramaanyam, Professor & Head, Dept. of CSE, NIT, Warangal, University nominee, giving suggestions during the BoS meeting held on 03-05-2019



External BoS member Smt. Veena Sanjana, Datastage Technical Team Lead, IBM, India Pvt. Ltd., Hyderabad, Post Graduate Meritorious Alumnus, giving suggestions during the BoS meeting held on 03-05-2019



External BoS member Sri Sandeep Sha Vishwanath, Asst. General Manager, Hinduja Global Solutions International Pvt. Ltd., DLF-Gachibowli, Hyderabad, from Industry giving suggestions during the BoS meeting held on 03-05-2019



External BoS member Dr.D.V.L.N.Somayajulu, Director, IIITDM, Kurnool, A.P. giving suggestions during the BoS meeting held on 03-05-2019

Department of Information Technology

Scheme of Instruction and Evaluation

URR-18

INFORMATION TECHNOLOGY

S. No.	Course Category	Course Code	Course Name	Periods			Credits	Evaluation Scheme				
				L	T	P		CIE				
								TA	MSE	Total	ESE	Marks
1	BSC	U18MH101	Engineering Mathematics - I	3	1	-	4	10	30	40	60	100
2	ESC	U18CS102	Programming for Problem Solving using C	3	-	-	3	10	30	40	60	100
3	BSC	U18PH103	Engineering Physics	3	1	-	4	10	30	40	60	100
4	HSMC	U18MH104	English for Communication	2	-	2	3	10	30	40	60	100
5	ESC	U18EE105	Basic Electrical Engineering	3	1	-	4	10	30	40	60	100
6	ESC	U18EE106	Basic Electrical Engineering Laboratory	-	-	2	1	40	-	40	60	100
7	ESC	U18CS107	Programming for Problem Solving using C Laboratory	-	-	2	1	40	-	40	60	100
8	BSC	U18PH108	Engineering Physics Laboratory	-	-	2	1	40	-	40	60	100
9	MC	U18CH109	Environmental Studies*	2	-	-	-	10	30	40	60	100
10	MC	U18EA110	EAA : PE & NSS*	-	-	2	-	100	-	-	-	100
Total:				16	3	10	21	280	180	360	540	1000

* indicates mandatory course

EAA: Extra Academic Activity

Contact Hours per Week: 29

Total Credits: 21

R.B.V. Subramanyam

Dr. R. B. V. Subramanyam
Professor & Head, Dept. of CSE, NITW
External Member (Univ. Nominee)

G. A. H.

Dr. G. Anandamma
Professor Dept. of CSE, JNTUH College of
Engg. Sultanpur. BoS External Member

Sri Sandeep Sha

Sri Sandeep Sha
Asst. General Manager, Hinduja Global
Solutions Intl. Pvt. Ltd, Hyd.
External Member (from Industry)

Smt. Veena Sanjana

Smt. Veena Sanjana
Technical Team Lead
IBM India Pvt. Ltd. Hyd. External
Member (PG Meritorious Alumnus)

Smt. G. K. Shailaja

Smt. G. K. Shailaja
Assoc. Prof. of IT, KITSW
Member

Sri B. Kiran Kumar

Sri B. Kiran Kumar
Assoc. Prof. of IT, KITSW
Member

Sri A. Bhaskar

Sri A. Bhaskar
Assoc. Prof. of IT, KITSW
Member

Sri M. Kishore

Sri M. Kishore
Asst. Prof. of IT, KITSW
Member

Smt. Y. Bhavani

Smt. Y. Bhavani
Assoc. Prof. of IT, KITSW
Co-Opted Member

INFORMATION TECHNOLOGY

S. No.	Course Category	Course Code	Course Name	Periods			Credits	Evaluation Scheme				
				L	T	P		CIE		Total	ESE	Total Marks
								TA	MSE			
1	BSC	U18MH201	Engineering Mathematics - II	3	1	-	4	10	30	40	60	100
2	ESC	U18CS202	Data Structures through C	3	-	-	3	10	30	40	60	100
3	BSC	U18CH203	Engineering Chemistry	3	1	-	4	10	30	40	60	100
4	ESC	U18ME204	Engineering Drawing	2	-	4	4	10	30	40	60	100
5	ESC	U18CE205	Basic Engineering Mechanics	3	1	-	4	10	30	40	60	100
6	ESC	U18CS207	Data Structures through C Laboratory	-	-	2	1	40	-	40	60	100
7	BSC	U18CH208	Engineering Chemistry Laboratory	-	-	2	1	40	-	40	60	100
8	ESC	U18ME209	Engineering Workshop Practice	-	-	2	1	40	-	40	60	100
9	MC	U18EA210	EAA : PE & NSS*	-	-	2	-	100	-	-	-	100
Total:				14	3	12	22	270	150	320	480	900

* Indicates mandatory course

EAA: Extra Academic Activity

Contact Hours per Week: 29

Total Credits: 22

D.V.L.N.
Dr. D.V.L.N. Somayajulu
Professor, Dept. of CSE, NITW
BoS External Member

R.B.V.
Dr. R.B.V. Subramanyam
Professor & Head, Dept. of CSE, NITW
External Member (Univ. Nominee)

S. M. S.
Dr. S. M. S. Srinivasulu
Professor Dept. of CSE, JNTUH College of
Engg. Sultanpur, BoS External Member

S. V.
Sri Sandeep Shaw
Asst. General Manager, Hinduja Global
Solutions Intl. Pvt. Ltd, Hyd.
External Member (from Industry)

S. Veena
Smt. Veena Sanjana
Technical Team Lead
IBM India Pvt. Ltd. Hyd. External
Member (TG Meritorious Alumnus)

P. K.
Dr. P. Kamakshi
Professor & Head, Dept. of IT,
KITSW, Chairperson, BoS of IT

Smt. G.K. Shailaja
Smt. G.K. Shailaja
Assoc. Prof. of IT, KITSW
Member

Sri B. Kiran Kumar
Sri B. Kiran Kumar
Assoc. Prof. of IT, KITSW
Member

Arghas
Sri A. Bhaskar
Assoc. Prof. of IT, KITSW
Member

Sri M. Kishore
Sri M. Kishore
Asst. Prof. of IT, KITSV
Member


Smt. Y. Bhavani
Smt. Y. Bhavani
Assoc. Prof. of IT, KITSW
Co-Opted Member


**REGULATION FOR B.TECH. DEGREE PROGRAMME IN
INFORMATION TECHNOLOGY**


S. No.	Course Category	Course Code	Course Name	Periods			Credits	Evaluation Scheme				
				L	T	P		CIE		Total Marks		
								TA	MSE		Total	
1	BSC	U18MH301	Engineering Mathematics-III	3	1	-	4	10	30	40	60	100
2	HSMC	U18MH302	Professional English	-	-	2	1	100	-	100	-	100
3	BSC	U18MH303	Discrete Mathematics	3	-	-	3	10	30	40	60	100
4	PCC	U18IT304	Object Oriented Programming through C++	3	-	-	3	10	30	40	60	100
5	ESC	U18EC305	Switching Theory and Logic Design	3	-	-	3	10	30	40	60	100
6	PCC	U18IT306	Computer Architecture and Organization	3	-	-	3	10	30	40	60	100
7	PCC	U18IT307	Operating Systems	3	-	-	3	10	30	40	60	100
8	PCC	U18IT308	Object Oriented Programming through C++ Laboratory	-	-	2	1	40	-	40	60	100
9	PCC	U18IT309	Operating Systems Laboratory	-	-	2	1	40	-	40	60	100
10	MC	U18MH315	Essence of Indian Traditional Knowledge	2	-	-	-	10	30	40	60	100
Total:				20	1	6	22	250	210	460	540	1000


Contact Hours per Week: 27


Total Credits: 22

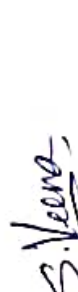

Dr. D.V.L.N. Somayajulu
Professor, Dept. of CSE, NITW
BoS External Member



Dr. R.B.V. Subramanyam
Professor & Head, Dept. of CSE, NITW
External Member (Univ. Nominee)



Dr. G. Swarnamma
Professor Dept. of CSE, JNTUH College of
Engg. Sultampur. BoS External Member


Sri Sandeep Sha
Asst. General Manager, Hinduja Global
Solutions Intl. Pvt. Ltd, Hyd.
External Member (from Industry)



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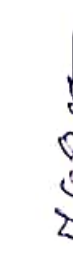

Smt. Veena Sanjana
Technical Team Lead
IBM India Pvt. Ltd. Hyd. External
Member (PG-Mentorous Alumnus)

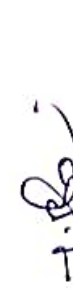

Dr. P. Kamaksh
Professor & Head, Dept. of IT,
KITSW, Chairperson, BoS of IT


Smt. G.K. Shailaja
Assoc. Prof. of IT, KITSW
Member


Sri B. Kiran Kumar
Assoc. Prof. of IT, KITSW
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Assoc. Prof. of IT, KITSW
Member


Sri M. Kishore
Asst. Prof. of IT, KITSW
Member


Smt. Y. Bhavani
Assoc. Prof. of IT, KITSW
Co-Opted Member

INFORMATION TECHNOLOGY

S. No.	Course Category	Course Code	Course Name	Periods			Credits	Evaluation Scheme				
				L	T	P		CJE			Total Marks	
								TA	MSE	Total		
1	BSC	U18MH401	Engineering Mathematics-IV	3	1	-	4	10	30	40	60	100
2	HSMC	U18TP402	Soft and Interpersonal Skills	-	-	2	1	100	-	100	-	100
3	PCC	U18IT403	Java Programming	3	-	-	3	10	30	40	60	100
4	PCC	U18IT404	Theory of Computation	3	-	-	3	10	30	40	60	100
5	PCC	U18IT405	Design and Analysis of Algorithms	3	-	-	3	10	30	40	60	100
6	ESC	U18EC410	Microprocessors	3	-	-	3	10	30	40	60	100
7	PCC	U18IT406	Java Programming Laboratory	-	-	2	1	40	-	40	60	100
8	PCC	U18IT407	Design and Analysis of Algorithms Laboratory	-	-	2	1	40	-	40	60	100
9	ESC	U18EC411	Digital Electronics & Microprocessors Laboratory	-	-	2	1	40	-	40	60	100
Total:				19	1	6	20	270	150	420	480	900

Contact Hours per Week: 24

Total Credits: 20



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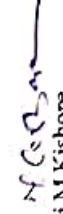
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				L	T	P		CIE			Total Marks	
								TA	MSE	Total		
1	HSMC	U18TP501	Quantitative Aptitude and Logical Reasoning	2	-	-	1	10	30	40	60	100
2	PE	U18IT502	Professional Elective-I/MOOCs-I	3	-	-	3	10	30	40	60	100
3	PCC	U18IT503	Database Management Systems	3	1	-	4	10	30	40	60	100
4	PCC	U18IT504	Web Programming	3	-	-	3	10	30	40	60	100
5	PCC	U18IT505	Computer Networks	3	-	-	3	10	30	40	60	100
6	PCC	U18IT506	Language Processors	3	-	-	3	10	30	40	60	100
7	PCC	U18IT507	Database Management Systems Laboratory	-	-	2	1	40	-	40	60	100
8	PCC	U18IT508	Web Programming Laboratory	-	-	2	1	40	-	40	60	100
9	PCC	U18IT509	GUI Programming Laboratory	-	-	2	1	40	-	40	60	100
10	PROJ	U18IT510	Seminar	-	-	2	1	100	-	100	-	100
Total:				17	1	8	21	280	180	460	540	1000

Contact Hours per Week : 26

Professional Elective-I/ MOOCs-I


U18IT502A: Principles of Programming Languages


U18IT502B: Distributed Computing


Total Credits: 21


U18IT502C: Computer Graphics & Multimedia


U18IT502M: MOOCs- I Course



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 Engg. Sultanpur. BoS External Member


 Sri Sandeep Shrivastava
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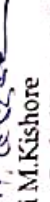

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 Smt. Y. Bhavani
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 Co-Opted Member

(An Autonomous Institute under Kakatiya University)
PROPOSED SCHEME OF INSTRUCTION & EVALUATION FOR VI-SEMESTER OF 4-YEAR B.TECH. DEGREE PROGRAMME IN
INFORMATION TECHNOLOGY

S. No.	Course Category	Course Code	Course Name	Periods			Credits	Evaluation Scheme				
				L	T	P		CIE		Total	Total Marks	
								TA	MSE			
1	MC	U18MI1601	Constitution of India	2	-	-	-	10	30	40	60	100
2	OE	U18OE602	Open Elective-I	3	-	-	3	10	30	40	60	100
3	PE	U18IT603	Professional Elective-II/MOOCs-II	3	-	-	3	10	30	40	60	100
4	PCC	U18IT604	Cryptography and Network Security	3	-	-	3	10	30	40	60	100
5	PCC	U18IT605	Artificial Intelligence	3	-	-	3	10	30	40	60	100
6	PCC	U18IT606	Data Warehousing and Data Mining	3	-	-	3	10	30	40	60	100
7	PCC	U18IT607	Software Engineering	3	-	-	3	10	30	40	60	100
8	PCC	U18IT608	Data Engineering Laboratory	-	-	2	1	40	-	40	60	100
9	PCC	U18IT609	Software Engineering Laboratory	-	-	2	1	40	-	40	60	100
10	PROJ	U18IT610	Mini Project	-	-	2	1	100	-	100	-	100
Total:				20	-	6	21	250	210	460	540	1000

Contact Hours per Week : 26

Total Credits: 21

Open Elective-I

U18OE602A : Disaster Management

U18OE602B : Project Management

U18OE602C : Professional Ethics in Engineering

U18OE602D : Rural Technology and Community Development

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Professional Elective-II / MOOCs-II

U18IT603A: Neural Networks

U18IT603B: Information Retrieval Systems

U18IT603C: Advanced Databases

U18IT603M: MOOCs- II Course

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 Co-Opted Member

PROPOSED SCHEME OF INSTRUCTION & EVALUATION FOR VII-SEMESTER OF 4-YEAR B.TECH. DEGREE PROGRAMME IN INFORMATION TECHNOLOGY


S. No.	Course Category	Course Code	Course Name	Periods			Credits	Evaluation Scheme				
				L	T	P		CIE		ESE	Total Marks	
								TA	MSE			Total
1	HSMC	U18MH701	Management, Economics & Accountancy	3	-	-	3	10	30	40	60	100
2	PE	U18IT702	Professional Elective-III/MOOCs-III	3	-	-	3	10	30	40	60	100
3	PE	U18IT703	Professional Elective-IV/MOOCs-IV	3	-	-	3	10	30	40	60	100
4	PCC	U18IT704	Scripting Languages	3	-	-	3	10	30	40	60	100
5	PCC	U18IT705	Scripting Languages Laboratory	-	-	2	1	40	-	40	60	100
6	PCC	U18IT706	Modeling and Project Management Laboratory	-	-	2	1	40	-	40	60	100
7	PROJ	U18IT707	Major Project Work Phase-I	-	-	6	3	100	-	100	-	100
8	MC	U18IT708	Internship Evaluation	-	-	2	-	100	-	100	-	100
Total:				12	-	12	17	320	120	440	360	800


Total Credits: 17

Contact Hours per Week: 24

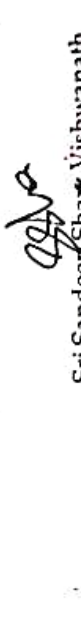
Professional Elective-III / MOOCs-III
 U18IT 702A: Digital Image Processing
 U18IT 702B: Cloud Computing
 U18IT 702C: Service Oriented Architecture
 U18IT 702M: MOOCs-III Course


Professional Elective-IV / MOOCs-IV
 U18IT 703A: Wireless Communications
 U18IT 703B: Social Network Analysis
 U18IT 703C: Ethical Hacking
 U18IT 703M: MOOCs-IV Course



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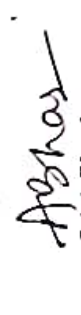

 Sri Sandeep Sharma Vishwanath
 Asst. General Manager, Hinduja Global
 Solutions Intl. Pvt. Ltd, Hyd.
 External Member (from Industry)

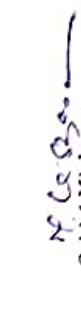

 Smt. Veena Sanjana
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 Member (PG Meritorious Alumnus)


 Dr. P. Kamakshi
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 KJTSW, Chairperson, BoS of IT


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Total Credits: 17

INFORMATION TECHNOLOGY

S. No.	Course Category	Course Code	Course Name	Periods			Credits	Evaluation Scheme				
				L	T	P		TA	MSE	Total	ESE	Total Marks
1	PE	U18IT801	Professional Elective-V/MOOCs-V	3	-	-	3	10	30	40	60	100
2	PE	U18IT802	Professional Elective-VI/MOOCs-VI	3	-	-	3	10	30	40	60	100
3	OE	U18OE803	Open Elective - II/MOOCs-VII	3	-	-	3	10	30	40	60	100
4	PROJ	U18IT804	Major Project Work Phase-II	-	-	14	7	40	-	40	60	100
Total:				9	-	14	16	70	90	160	240	400

Contact Hours per Week : 23

Total Credits: 16

Open Elective-II/ MOOCs-VII


- U18OE 803A: Operations Research
- U18OE 803B: Management Information Systems
- U18OE 803C: Entrepreneurship Development
- U18OE 803D: Forex and Foreign Trade
- U18OE 803M: MOOCs-VII Course


Professional Elective-V/ MOOCs-V

- U18IT 801A: Machine Learning
- U18IT 801B: Semantic Web
- U18IT 801C: Bio-Informatics
- U18IT801M: MOOCs-V Course


Professional Elective-VI / MOOCs-VI


- U18IT 802A: Data Analytics
- U18IT 802B: Internet of Things
- U18IT 802C: Cyber Security
- U18IT 802M: MOOCs-VI Course

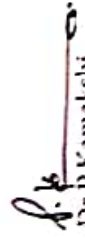

 Dr. D. V. L. N. Somayajulu
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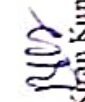

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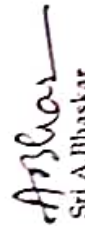

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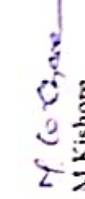

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I Sem	21	1000
II Sem	22	900
III Sem	22 (6T+2L)	1000
IV Sem	21	900
V Sem	21	1000
VI Sem	21	1000
VII Sem	17	800
VIII Sem	16	400
Total	160	7000

Ans/

ESV-Hungary