# NAWAB SHAH ALAM KHAN COLLEGE OF ENGINEERING AND TECHNOLOGY

Computer Science & Engg.

## Part A : Institutional Information

**1 Name and Address of the Institution**

NAWAB SHAH ALAM KHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, 16-4-1/A NEW MALAKPET, HYDERABAD PIN:500024.
TELANGANA STATE INDIA.

**2 Name and Address of Affiliating University**

OSMANIA UNIVERSITY HYDERABAD (From 2019-20 onwards) earlier JNTUH

**3 Year of establishment of the Institution: 2008**

**4 Type of the Institution:**

| | |
|---|---|
| University | Autonomous |
| Deemed University | √ Affiliated |
| Government Aided | |

**5 Ownership Status:**

| | |
|---|---|
| Central Government | Trust |
| State Government | √ Society |
| Government Aided | Section 25 Company |
| √ Self financing | Any Other (Please Specify) |

**6 Other Academic Institutions of the Trust/Society/Company etc., if any:**

| Name of Institutions | Year of Establishment | Programs of Study | Location |
|---|---|---|---|
| Aizza College of Engineering and Technology | 1999 | BTECH MINING ENGG. , CSE, EEE | Mulkala, Mancherial Adilabad district, Telangana |

7 **Details of all the programs being offered by the institution under consideration:**

| Name of Program | Program Applied level | Start of year | Year of AICTE approval | Initial Intake | Intake Increase | Current Intake | Accreditation status | From | To | Program for consideration | Program for Duration |
|---|---|---|---|---|---|---|---|---|---|---|---|
| B.TECH | UG | 2008 | 2008 | 60 | No | 60 | Applying first time | -- | -- | Yes | 4 |
| | | | | | | | | | | | |
| M.TECH | PG | 2012 | 2012 | 18 | No | 18 | Eligible but not applied | -- | -- | No | 2 |
| | | | | | | | | | | | |

8 **Programs to be considered for Accreditation vide this application:**

| S No | Level | Discipline | Program |
|---|---|---|---|
| 1 | Under Graduate | Engineering & Technology | Civil Engg. |
| 2 | Under Graduate | Engineering & Technology | Computer Science & Engg. |
| 3 | Under Graduate | Engineering & Technology | Information Technology |
| 4 | Under Graduate | Engineering & Technology | Mechanical Engg. |

9 **Total number of employees in the institution:**

A. **Regular* Employees (Faculty and Staff):**

| Items | 2021-22 | | 2020-21 | | 2019-20 | | 2018-19 | |
|---|---|---|---|---|---|---|---|---|
| | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX |
| Faculty in Engineering (Male) | 109 | 109 | 93 | 93 | 84 | 84 | 114 | 114 |
| Faculty in Engineering (Female) | 19 | 19 | 35 | 35 | 31 | 31 | 29 | 29 |
| Faculty in Maths, Science & Humanities (Male) | 24 | 24 | 15 | 15 | 15 | 15 | 15 | 15 |
| Faculty in Maths, Science & Humanities (Female) | 16 | 16 | 13 | 13 | 19 | 19 | 19 | 19 |
| Non-teaching staff (Male) | 25 | 25 | 25 | 25 | 23 | 23 | 23 | 23 |
| Non-teaching staff (Female) | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 1 |

B. **Contractual* Employees (Faculty and Staff):**

| Items | 2021-22 | | 2020-21 | | 2019-20 | | 2019-20 | |
|---|---|---|---|---|---|---|---|---|
| | MIN | MIN | MIN | MIN | MAX | MAX | MIN | MAX |
| Faculty in Engineering (Male) | - | - | - | - | - | - | - | - |
| Faculty in Engineering (Female) | - | - | - | - | - | - | - | - |
| Faculty in Maths, Science & Humanities (Male) | - | - | - | - | - | - | - | - |
| Faculty in Maths, Science & Humanities (Female) | - | - | - | - | - | - | - | - |
| Non-teaching staff (Male) | - | - | - | - | - | - | - | - |
| Non-teaching staff (Female) | - | - | - | - | - | - | - | - |

10 **Total number of Engineering Students:**

| | | |
|---|---|---|
| **Engineering and Technology- UG** | √ Shift1 | Shift2 |
| **Engineering and Technology- PG** | √ Shift1 | Shift2 |
| **Engineering and Technology- Polytechnic** | Shift1 | Shift2 |
| **MBA** | Shift1 | Shift2 |
| **MCA** | Shift1 | Shift2 |

**Engineering and Technology- UG Shift-1**

| Items | 2021-2022 | 2020-2021 | 2019-20 | 2018-19 | 2017-18 |
|---|---|---|---|---|---|
| Total no. of Boys | 1510 | 1394 | 1342 | 1189 | 929 |
| Total no. of Girls | 140 | 134 | 110 | 92 | 66 |
| **Total** | **1650** | **1528** | **1452** | **1281** | **995** |

Engineering and Technology- PG Shift-1

| Items | 2020-2021 | 2019-20 | 2018-19 | 2017-18 |
|---|---|---|---|---|
| Total no. of Boys | 64 | 85 | 97 | 93 |
| Total no. of Girls | 24 | 34 | 26 | 20 |
| **Total** | **88** | **119** | **123** | **113** |

11 **Vision of the Institution:**

To impart quality technical education with strong ethics, producing technically sound engineers capable of serving the society and the nation in a responsible manner.

12 **Mission of the Institution:**

**M1:** To provide adequate knowledge encompassing strong technical concepts and soft skills thereby inculcating sound ethics.

**M2:** To provide a conducive environment to nurture creativity in teaching- learning process.

**M3:** To identify and provide facilities which create opportunities for deserving students of all communities to excel in their chosen fields.

**M4:** To strive and contribute to the needs of the society and the nation by applying advanced engineering and technical concepts.

13 **Contact Information of the Head of the Institution and NBA coordinator, if designated:**

| **Head of the Institution** | |
|---|---|
| **Name** | Dr. Syed Abdul Sattar |
| Designation | PROFESSOR OF CSE AND PRINCIPAL |
| Mobile No. | 7032580275 |
| Email ID | nsakcet@gmail.com |

**NBA Coordinator, If Designated**

| | |
|---|---|
| Name | Dr. Mohammad Sanaullah Qaseem |
| Designation | PROFESSOR AND HOD CSE, IQAC COORDINATOR, NBA COORDINATOR |
| Mobile No. | 9866879942 |
| Email ID | ms_qaseem@yahoo.com |

PART B: Criteria Summary

| Criteria No. | Criteria | Total Marks | Institute Marks |
|---|---|---|---|
| 1 | VISION, MISSION AND PROGRAM EDUCATIONAL OBJECTIVES | 60 | 60.00 |
| 2 | PROGRAM CURRICULUM AND TEACHING - LEARNING PROCESSES | 120 | 120.00 |
| 3 | COURSE OUTCOMES AND PROGRAM OUTCOMES | 120 | 120.00 |
| 4 | STUDENTS' PERFORMANCE | 150 | 101.87 |
| 5 | FACULTY INFORMATION AND CONTRIBUTIONS | 200 | 186.15 |
| 6 | FACILITIES AND TECHNICAL SUPPORT | 80 | 80.00 |
| 7 | CONTINUOUS IMPROVEMENT | 50 | 50.00 |
| 8 | FIRST YEAR ACADEMICS | 50 | 42.57 |
| 9 | STUDENT SUPPORT SYSTEMS | 50 | 50.00 |
| 10 | GOVERNANCE, INSTITUTIONAL SUPPORT AND FINANCIAL RESOURCES | 120 | 120.00 |
| | **Total** | **1000** | **931** |

# Part B

## 1VISION, MISSION AND PROGRAM EDUCATIONAL OBJECTIVES (60)

Total Marks 60.00

### 1.1 State the Vision and Mission of the Department and Institute (5)

Total Marks 5.00

Institute Marks : 5.00

| | |
|---|---|
| Vision of the institute | To impart quality technical education with strong ethics, producing technically sound engineers capable of serving the society and the nation in a responsible manner. |
| Mission of the institute | **M1:** To provide adequate knowledge encompassing strong technical concepts and soft skills thereby inculcating sound ethics.<br>**M2:** To provide a conducive environment to nurture creativity in teaching- learning process.<br>**M3:** To identify and provide facilities which create opportunities for deserving students of all communities to excel in their chosen fields.<br>**M4:** To strive and contribute to the needs of the society and the nation by applying advanced engineering and technical concepts. |
| Vision of the Department | To impart quality education to produce Computer Science professionals capable of adapting to the constantly evolving technological advances and providing real time solutions to the society and the nation in an ethical manner. |
| Mission of the Department | |

| Mission No. | Mission Statements |
|---|---|
| M1 | To impart technical education through sound conceptual and practical teaching learning practices. |
| M2 | To provide a conducive environment to make the students industry ready by adopting the latest programming tools in an ethical manner. |
| M3 | To engage the students in effective practical learning through industry oriented courses to make them employable by cultivating their soft skills and team spirit. |
| M4 | To involve students in providing solutions to the ever evolving societal needs in multidisciplinary fields. |

### 1.2 State the Program Educational Objectives (PEOs) (5)

Total Marks 5.00

Institute Marks : 5.00

| PEO No. | Program Educational Objectives Statements |
|---|---|
| PEO1 | Graduates will apply their programming skill sets in their domains to provide solutions to real time problems. |
| PEO2 | Graduates will demonstrate their team spirit through effective communication both in local and multi- national arena. |
| PEO3 | Graduates will adapt to the ever-evolving software industry through lifelong learning to provide effective solutions to benefit the society in an ethical manner. |

**1.3 Indicate where the Vision, Mission and PEOs are published and disseminated among stakeholders** (10)

Total Marks 10.00

Institute Marks : 10.00

The Department Vision, Mission and PEOs are displayed at the following locations College Website **http://www.nsakcet.ac.in**

HOD Chamber Staff Rooms, Course files Lab Manuals,

All Department Laboratories All Department Notice Boards

Department Library Corridors of the department

**The Vision and Mission are disseminated during the conduction of:**

Workshops Seminars

Conferences

Faculty Development

Programs Training

Programs for Students

The following platforms are used to disseminate the Vision, Mission and PEOs of the department among stake holders in order to educate them and to get their support in reaching out the goals.

BOG Meetings – Management and BOG members

Induction Program / Orientation Program – Students and Parents

Parent Teacher Meeting – Parents

Campus Recruitment Drives – Employers, Industry Alumni Meet - Alumni

Symbolically through Prospectus, Workshop & FDP Brochures, Technical Magazines, etc., sent from college

Faculty Meetings - Faculty

Student Awareness

Workshops - Students Parent

Teacher Meeting – Parents

The Internal Stakeholders of the program are:

Students

Management BOG members

Faculty

Support staff

The External Stakeholders of the program are:

Alumni

Employers

Industry

Funding Agencies

Parents

**Extent of Awareness of vision, mission & PEOs among stake holders:**

**BOG Meetings – Management and BOG members –** BOG reviews the Vision, Mission statements of both Institute and Department and later PEOs of each program and reviews the progress in successive meetings

**Publishing at various places of the Department -** Faculty members, students and visitors will be aware of Vision, Mission and PEOs.

**Induction Program (Freshers)** - *Students and Parents*: The Head of the Department will introduce the principles, objectives and culture of both institute and department through Vision, Mission and PEOs.

**Parents and Teachers Meet** – The Head of the Department and the concerned faculty members will address the activities initiated in the institute/department to achieve the objectives. Future course of action will be discussed.

**Campus Recruitment Drives** – The Vision and Mission of the Institute & Department and PEOs are distributed among the employers.

**Alumni Meet –** During the Alumni meet, the opinions and suggestions from the alumni are collected and considered to improve the attainment.

**Workshops and FDPs** – The participants from other institutions get awareness on the Vision and Mission of the Institute & the Department and PEOs through oral presentation about the department.

**1.4 State the process for defining the Vision and Mission of the Department, and PEOs of the program** (25) Total Marks 25.00

Institute Marks: 25.00

**A. Description of process involve in defining the Vision and Mission of the department**:

A bottom-up approach has been employed for the process of defining the Departmental Vision and Mission statement. The Departmental Vision and Mission statement has been developed in alignment with the Institute's Vision and Mission with the active participation of Department Head, teaching faculty members and staff along with the continuous feedback from various stakeholders. The following procedure is followed in formulating the Vision and Mission of the Department:

**Step 1:**

Vision and Mission of the Institution are taken as basis.

**Step 2:**

Views are taken from stakeholders of the Department such as students, alumni, faculty members, employers and parents.

**Step 3:**

The views about the Departmental Vision and Mission are formulated by the team of teaching faculty members of the Department and which are then shared among the external stake holders for feedback.

**Step 4:**

Department Advisory Committee (DAC) reviews and approves the Departmental Vision and Mission to check the consistency with the Vision and Mission of the Institute.

**Step 5 :**

The Departmental Vision and Mission statements are then published.

**Internal Stake holders**

**Management** regularly reviews the programme objectives and improves on them.

**Teaching faculty** members frequently contribute to the evaluation process.

**Non-teaching** staff members provide the support for a successful teaching learning process.

**Students** observe the support derived from these objectives in their future careers.

**External Stakeholders**

**Parents** assist the department in implementing several measures that enable their wards to grow into well equipped, professionally qualified and responsible computers engineers and citizens.

**Alumni** regularly rate the objectives and assess their relevance to the changing global needs.

**Employers** assess the applicability of the objectives while evaluating graduates for specific employment requirements during CRTs.
With the active participation of Department Head, Internal Quality Assessment Committee (IQAC) members, teaching faculty members and staff along with the continuous feedback from

stakeholders, the Vision and Mission statement of the department was developed in alignment with Vision and Mission of the Institute.

**Process defining Department Vision and Mission**

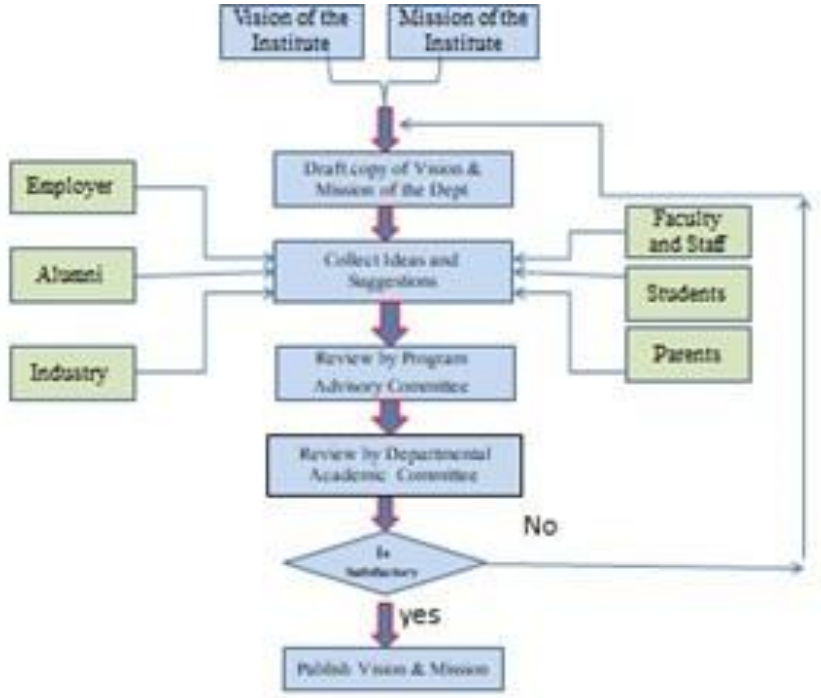



**Figure 1.4.1 Process defining Department Vision and Mission**

**B. Description of process involved in defining the PEOs of the program**

The Program Educational Objectives (PEOs) are established through a consultation process involving the stakeholders such as Students, Alumni, Teaching faculty, Employers and Parents

The PEOs are formulated through the following steps.

**Step 1:** The Institute's Vision and Mission statements are taken as basis.

**Step 2:** The Departmental Vision and Mission of the Department are taken as a basis to interact with various stakeholders.

**Step 3:**. The program coordinator collects the survey results of various stakeholders

**Step 4:** On considering the views of the stakeholders, the PEOs are formulated by the team of senior faculty members identified for the program.

**Step 5:** The PEOs are represented before the Department Advisory Committee for additional inputs to improvise the program

**Step 6:** Finally, the Department Advisory Committee approves the PEOs.

**Step 7:** PEOs of the Department are published.

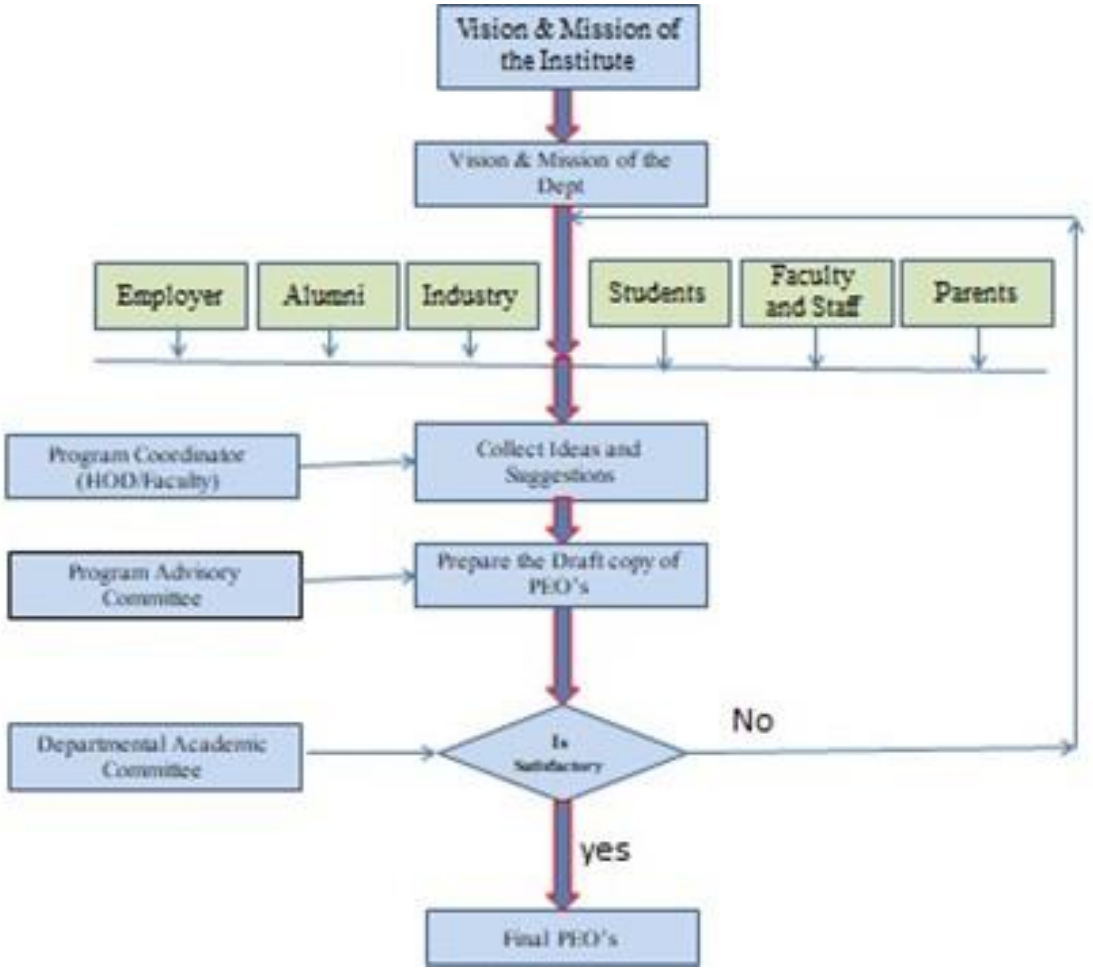



**Figure 1.4.2. Process for defining the PEOs of the Department**

**1.5 Establish consistency of PEOs with Mission of the Department** (15)

Total Marks 15.00

Institute Marks : 15.00

To realize the departmental vision, various academic and extra-curricular activities will be organized. The goal of these activities will be to:

**M1:** To impart technical education through sound conceptual and practical teaching learning practices.

**M2:** To provide a conducive environment to make the students industry ready by adopting the latest programming tools in an ethical manner.

**M3:** To engage the students in effective practical learning through industry oriented courses to make them employable by cultivating their soft skills and team spirit.

**M4:** To involve students in providing solutions to the ever-evolving societal needs in multidisciplinary fields.

In the following table the consistency of PEO's with Mission of the Department is shown as matrix (Mission-PEO's). The relevance/correlation is assigned as following numerical weights: high correlation (3), medium correlation (2), low correlation (1) and no correlation (-).

The PEOs of the Department are aimed to nurture professionals with strong fundamentals and core knowledge of their domain by providing a platform for learning and acquiring technical skills and ethical approach in collaboration with industries and academic experts throughout the globe.

PEO1 : M1 Is strongly consistent as the goal is to develop the ability among students and to understand the concepts of the fundamental knowledge of

engineering that can be achieved to solve real time issues.

PEO1: M2 Is strongly supported by writing a proper academic ambience to embed a strong foundation in engineering that meets global challenges of

research.

PEO1: M3 PEO1 moderately support by guiding the students an opportunity to participate in internships and make them employable by nurturing their soft skills and builds team spirit.

PEO1: M4 Is strongly supportive to PEO1 as students will be able to apply their Engineering knowledge and technical skills to provide

solutions to upcoming challenges in multi disciplinary domains.

PEO2 : M1 PEO2 Strongly supports as students will be able to implement their learnt fundamentals to solve real world problems effectively

through coordination and team work.

PEO2: M2 Moderately supports PEO2 by providing students with a persistent learning environment through qualified faculty so that they become industry ready.

PEO2: M3 PEO2 Strongly supports as many skills like leadership, critical thinking, listening skills, confidence, capability to co-ordinate, Knowledge

potential, reasoning ability etc are buildup among students.

PEO2: M4 Strongly supports for PEO2 as students are made to solve and develop applications as a team to solve real time problems through proper

team coordination.

PEO3 : M1 Supports strongly as imparting sound academics to students both in theory and practical to have a life long imprint

in their professional career with strong ethics. PEO3: M2 Strongly supports as proper academic atmosphere will strongly

promote awareness about social environmental issues so as to be able to provide optimum solutions.

PEO3: M3 PEO3 supports strongly as apart from providing sound technical knowledge in the upcoming domains, regular interaction with industry will provide the required awareness and make them industry ready. PEO3: M4 Strongly supports as technical education should develop technical awareness about societal issues relating to various multi-disciplinary domains.

| PEO Statements | M1 | M2 | M3 | M4 |
|---|---|---|---|---|
| Graduates will apply their programming skill sets in their domains to provide solutions to real time problems. | 3 | 3 | 2 | 3 |
| Graduates will demonstrate their team spirit through effective communication both in local and multi- national arena. | 3 | 2 | 3 | 3 |
| Graduates will adapt to the ever-evolving software industry through lifelong learning to provide effective solutions to benefit the society in an ethical manner. | 3 | 3 | 3 | 3 |

## 2 PROGRAM CURRICULUM AND TEACHING - LEARNING PROCESSES (120)

**Total Marks 120.00**

### 2.1 Program Curriculum (20)

Total Marks 20.00

**2.1.1 State the process used to identify extent of compliance of the University curriculum for attaining the Program Outcomes and Program Specific Outcomes as mentioned in Annexure I. Also mention the identified curricular gaps, if any (10)**

**Institute Marks : 10.00**

Nawab Shah Alam Khan College of Engineering and Technology is affiliated to the Osmania University, Hyderabad from the Academic Year 2019-2020 onwards and prior to that our institution was affiliated to the JNTU Hyderabad (CAYm2). The curriculum is designed by the affiliated university which has a composition of Basic Sciences, Humanities and Social Sciences, Professional core, Professional Electives Open Electives and Engineering Sciences.

Curriculum fulfillment is an organized analysis of the curriculum prescribed by the University to identify the degree of proficiency and content of the syllabi for the achievement of Program Outcomes POs and Program Specific Outcomes PSOs. In this view, the Departmental Advisory Committee (DAC) is made.

The Departmental Advisory Committee undertakes a study to determine whether the syllabi and its contents provide the opportunity to the students to gain appropriate knowledge, skills and attitude. This process helps to identify the gap between University curriculum and Program Outcomes. Relevant courses are collected based on its contents and grouped them as modules. Curriculum compliance is verified by organizing the information into a matrix (Course-PO matrix) which maps each one to the other. Mapping involves making collective judgments', by Departmental Advisory Committee, about the link between the Course Outcomes (COs) and the program outcomes (POs). The same process is extended to course-PSOs matrix. Curricular Gaps are also identified by mapping.

## A. Process used to identify extent of compliance of university curriculum for attaining POs & PSOs (6)

**Process:**

a. The mapping of COs to POs and PSOs which in turn computes the average POs and PSOs correlation for each course is prepared by the faculty and verified by the Department Academic Committee.
b. Based on the suggestions provided by the faculty on curricular gap of courses, the Departmental Academic Committee evaluates the improvement in the attainment of POs and PSOs, considering PEOs, Vision and Mission statements.
c. The delivery plan is prepared by the faculty for the course related curricular gap and seminars/workshops are planned by the department.
d. Average correlation of Program Outcome attainments of Academic Years (2018-19,)of each subject have been calculated carefully and presented in criterion 3. Based on the Program Outcome attainment values the curricular gaps are identified.

| | |
|---|---|
| 1 | **Engineering knowledge**: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems. |
| 2 | **Problem analysis**: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences. |

| | |
|---|---|
| 3 | **Design/development of solutions**: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations. |
| 4 | **Conduct investigations of complex problems**: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions. |
| 5 | **Modern tool usage**: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations. |
| 6 | **The engineer and society**: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice. |
| 7 | **Environment and sustainability**: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development. |
| 8 | **Ethics**: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice. |
| 9 | **Individual and team work**: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings. |
| 10 | **Communication**: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions. |
| 11 | **Project management and finance**: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments. |
| 12 | **Life-long learning**: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change. |

**Program Outcome: List of POs**

**Program Specific Outcomes (PSO):**

PSO 1: Develop a sound understanding of the concepts and the operational aspects of computer systems.

PSO 2: Apply ethical software development practices in providing real time solutions using latest development tools.

PSO 3: Demonstrate their adaptability to the ever-evolving societal needs in multidisciplinary fields.

## B. List the curricular gaps for the attainment of defined POs & PSOs (4)

### Process used to identify the curricular Gaps:

The course curriculum is reviewed by a Departmental Advisory Committee on a regular basis for fulfillment of the PO/PSOs, Course Outcomes. Feedbacks from the concerned Faculty, Alumni, and Industry experts are taken with utmost importance and GAPs are identified. During the process that few of the components to attain the program Outcomes, are not included in the curriculum prescribed, then the Committee recommends the additional contents to be covered under the “BEYOND THE SYLLABUS CONTENTS” category for each of the Courses.

The following flowcharts represent the process followed.

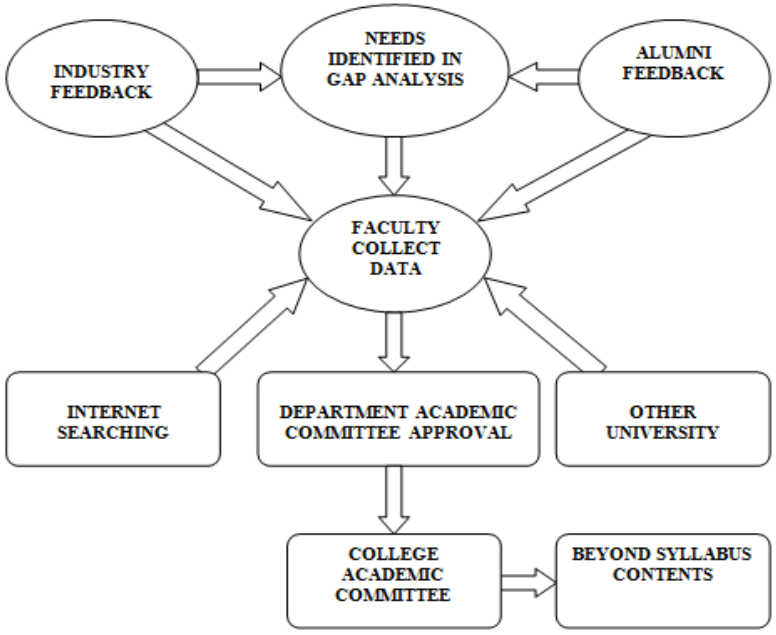



**Figure 2.1: Process used to identify the curricular Gaps.**

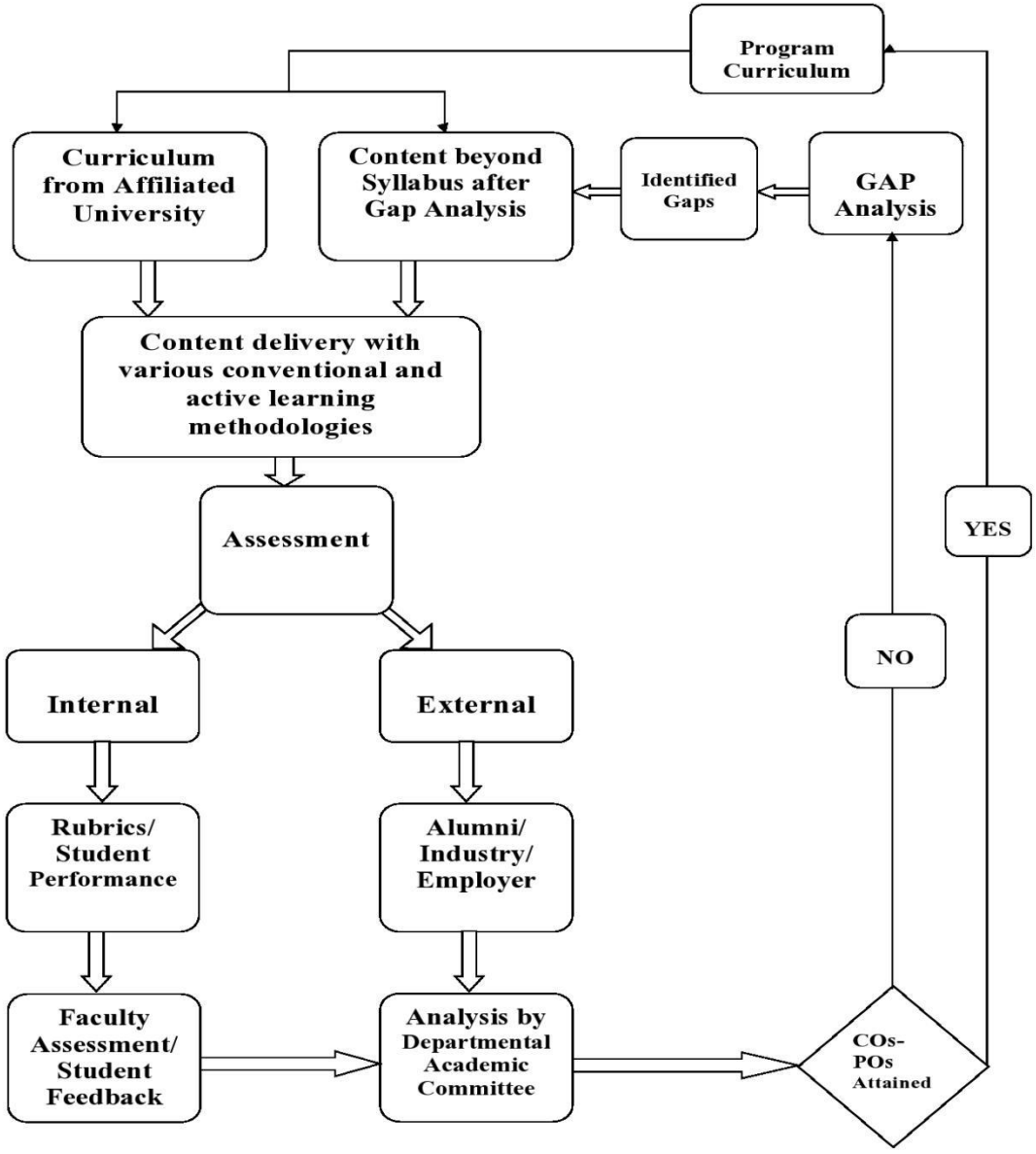



**Figure 2.2: Process of assessment of Gap Analysis.**

- **GAPS identified:**
- **List of Curricular Gaps CAY 2021-2022**

| S.NO | Name of the Activity | Activity | No of Participants | Year |
|---|---|---|---|---|
| 1 | Insights on Block chain & Career Opportunities | Webinar | 75% | 2021 |
| 2 | Break Through to Excellence | Inter Active Session | 70% | 2021 |
| 3 | Personal Branding | Webinar | 80% | 2021 |
| 4 | Personal Journey with IEEE | Webinar | 90% | 2021 |
| 5 | Digital Marketing As a Career | Webinar | 85% | 2021 |
| 6 | Insight on Data Science | Webinar | 90% | 2021 |
| 7 | Data Structures | E-Quiz | 70% | 2021 |
| 8 | Career in Cyber Security | Webinar | 85% | 2021 |
| 9 | Data Science Applications and Opportunities | Webinar | 90% | 2021 |
| 10 | Block Chain Technology | E-Quiz | 80% | 2021 |

**List of Curricular Gaps CAYm1 2020-2021**

| S.NO | Name of the Activity | Activity | No of Participants | Year |
|---|---|---|---|---|
| 1 | Insights on Block chain & Career Opportunities | Webinar | 75% | 2021 |
| 2 | Break Through to Excellence | Inter Active Session | 70% | 2021 |
| 3 | Personal Branding | Webinar | 80% | 2021 |
| 4 | Personal Journey with IEEE | Webinar | 90% | 2021 |
| 5 | Digital Marketing As a Career | Webinar | 85% | 2020 |
| 6 | Insight on Data Science | Webinar | 90% | 2020 |
| 7 | Data Structure | E-Quiz | 70% | 2020 |
| 8 | Career in Cyber Security | Webinar | 85% | 2020 |
| 9 | Data Science Applications and Opportunities | Webinar | 90% | 2020 |
| 10 | Block Chain Technology | E-Quiz | 80% | 2020 |
| 11 | An IOT Forecast that is sunny and clear | Webinar | 80% | 2020 |
| 12 | Confidence & Procrastination | Webinar | 90% | 2020 |
| 13 | Artificial Intelligence | E-Quiz | 90% | 2020 |
| 14 | 5G& 6G Services Network Outlook | Webinar | 65% | 2020 |
| 15 | R Programming | E-Quiz | 75% | 2020 |

**List of Curricular Gaps CAYm2 2019-2020**

| S.NO | Name of the Activity | Activity | No of Participant | Year |
|---|---|---|---|---|
| 1 | Industrial Visit to T-Hub IIT | Industrial Requirements | 90% | 2019 |
| 2 | Data Analytics in Cloud Environment | Guest Lecture | 80 | 2019 |
| 3 | Data Science Using Machine Learning | WorkShop | 85 | 2019 |
| 4 | Industrial Visit to Infosys | Industrial Requirements | 90 | 2019 |
| 5 | Entrepreneurship& Recent Trend in CSE | Seminar | 90 | 2019 |
| 6 | Hackathon | Self Learning | 80 | 2019 |
| 7 | Industrial Visit to Enaayah Software Development & Services | Industrial Requirements | 85 | 2019 |
| 8 | Metadata Management | Seminar | 70 | 2019 |
| 9 | Industrial Visit to Pantech Solution Pvt Limited | Industrial Requirements | 75 | 2019 |
| 10 | Data Cube Technology | Seminar | 80 | 2019 |
| 11 | Industrial Visit to Ruchi Web Solutions | Industrial Requirements | 85 | 2019 |

**List of Curricular Gaps CAYm2 2018-2019**

| S.NO | Name of the Activity | Activity | No of Participant | Year |
|---|---|---|---|---|
| 1 | Industrial Visit to Amtech Solutions | Industrial Requirements | 70 | 2018 |
| 2 | Network security tool | Seminar | 80 | 2018 |
| 3 | Artificial Intelligence | Guest Lecture | 85 | 2018 |
| 4 | Cyber Security | Seminar | 80 | 2018 |
| 5 | Working Models | Techno Vision | 85 | 2018 |
| 6 | Linux, Python & Free Software | Work Shop | 85 | 2018 |
| 7 | Data Analytics | Seminar | 80 | 2018 |
| 8 | Data Base Management Systems | Guest Lecture | 80 | 2018 |
| 9 | Basic Python | Workshop | 81 | 2018 |
| 10 | Using program Analysis for Optimization | Seminar | 80 | 2018 |

**2.1.2 State the delivery details of the content beyond the syllabus for the attainment of POs and PSOs** (10) Institute Marks : 10.00

**2020-21**

| Sl. No | Gap | Action Taken | Date – Month – Year (2020-2021) | Resource Person with Designation | No of Students | Relevance to POs and PSOs |
|---|---|---|---|---|---|---|
| 1 | Insights on Bock chain& Career Opportunities | Webinar | 01Jan 2021 | Mr. Aravind Vorungati | 80% | PO1,PO2,PO3,& PO12 |
| 2 | Break Through to Excellence | Inter Active Session | 7 Jan 2021 | Mr. Sri Charan Lakkaraju | 70% | PO1,PO2,PO 3,PO 4, PO 5,PO6,PO7 PO 11 & PO 12 |
| 3 | Personal Branding | Webinar | 30th Jan 2021 | Mrs. Miri Rodriguez | 85% | PO1,PO2,PO 3,PO 4, PO 5,PO6,PO7 PO 11 & PO 12 |
| 4 | Personal journey with IEEE | Webinar | 2nd Feb 2021 | Ms.Susan Kathy Land | 80% | PO1,PO2,PO 3,PO 4, PO 5,PO6,PO7 PO 11 & PO 12 |
| 5 | Mind Grind | Quiz on C Programming | 8th May 2021 | Ms Rehana Firdous | 80% | PO1,PO2,PO 3,PO 4, PO 5,PO6,PO7 ,PO9,PO 11 & PO 12 |
| 6 | Website Designing | Competition | June 3rd 2021 - 13th 2021 | Ms Asma Mehdia | 85% | PO1,PO2,PO 3,PO 4, PO 5,PO6,PO7 ,PO9,PO 11 & PO 12 |
| 7 | The Women in Technology World | Webinar | 25th June 2021 | Melissa sassi | 75% | PO1,PO2,PO 3,PO 4, PO 5,PO6,PO7 ,PO9,PO 11 & PO 12 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 8 | Workshop on NodeMCU | Workshop | 3rd July 2021 | Ms. Rehana Firdous | 85% | PO1,PO2,PO 3,PO 4, PO5, PO6, PO7, PO9,PO11 & PO12 |
| 9 | Data Science Application and Opportunities | Webinar | 27 June 2020 | Dr. Salman Abdul Moiz | 90% | PO1,PO2,PO 3,PO 4, PO 5,PO6,PO7 , PO10 PO 11 & PO 12 |
| 10 | Block Chain Technology | E-Quiz | 15th July 2020 | Ms. Waseema Masood | 80% | PO1,PO2,PO3,PO4,PO5,PO6,PO9, PO10,PO11,PO12 |
| 11 | An IOT Forecast that is sunny and clear | Webinar | 6th July 2020 | Ms. Kathy Giori | 80% | PO1,PO2,PO3,PO4,PO5,PO7,PO8, PO11,PO12 |
| 12 | Confidence & Procrastination | Webinar | 24 July 2020 | Mrs. Syeda Fatima Bilgrami | 90% | PO1,PO2,PO 3,PO 4, PO 5,PO6,PO7 , PO10 PO 11 & PO 12 |
| 13 | Artificial Intelligence | E-Quiz | 22 july 2020 | Mrs. Asma Mehdia | 90% | |
| 14 | 5G & 6G Services Network Outlook | Webinar | 24/08/2020 | Mr. Marc Einstein | 65% | PO1,PO2,PO 3,PO 4, PO 5,PO6,PO7 PO 11 & PO 12 |
| 15 | R Programming | E-Quiz | 20 Aug 2020 | Ms. Zahoora Abid | 75% | PO1,PO2,PO3,PO5,PO11,PO12 |

**2019-20**

| Sl. No | Gap | Action Taken | Date – Month – Year(2019-2020 | Resource Person with Designation | No of Students | Relevance to POs and PSOs |
|---|---|---|---|---|---|---|
| 1 | Industrial Visit to T-Hub IIT | Industry Requirements | 17/09/2019 | Mr Mohan K Arunachalam | 90% | PO1,PO2,PO 3,PO 4, PO 5,PO6,PO7 PO 11 & PO 12 |
| 2 | Data Analytics in Cloud Environment | Guest Lecture | 18/09/2019 | Prof PV Sudha, HOD,CSE DEAN OU | 80 | PO1,PO2,PO3,PO4,PO5,PO6PO8,PO10&PO11 |
| 3 | Data Science Using Machine Learning | WorkShop | 06/08/2018 | Mr.Pavan Kumar , Mr,Mohan Kumar IITH | 85 | PO1,PO2,PO3,PO4,PO5,PO6,PO11&PO12 |
| 4 | INDUSTRIAL VISIT TO 'INFOSYS | Industry Requirements | 31/08/19 | Dr M.S.Qaseem, Vice Principal & Head of CSE Dept | 90% | PO1,PO2,PO 3,PO 4, PO 5,PO6,PO7 PO 11 & PO 12 PSO 1,2,3 |
| 5 | Entrepreneurship & Recent Trends in CSE | SEMINAR | 02/11/2019 | Shauket Ahmed Kotwal, Innovatum | 90% | PO1,PO2,PO 3,PO 4, PO 5,PO6,PO7 PO 11 & PO 12PO 3,PO 4, PO 5, PO 11 & PO 12 PSO 1,2,3 |
| 6 | Self Learning | Hackathon | 02/03/19-03/03/19 | Dr M.S. Qaseem, Vice Principal & Head of CSE Dept | 80% | PO1,PO2,PO3,& PO12 PSO 1,2,3 |
| 7 | Industry Requirements | Industrial Visit to Enaayah Software Development Services | 08/08/2019 | Mr .Mohd Khaleel Ahmed | 70% | PO1,PO2,PO 3,PO 4, PO 5,PO6,PO7 PO 11 & PO 12PO 3,PO 4, PO 5, PO 11 & PO 12 PSO 1,2,3 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 8 | Metadata Management | Seminar | 05/09/2019 | Ms Ishrath Nousheen | 60% | PO1,PO2,PO 3,PO 4, PO 5,PO6,PO7 PO 11 & PO 12PO 3,PO 4, PO 5, PO 11 & PO 12<br>PSO 1,2,3 |
| 9 | Industry Requirements | Industrial Visit to Pantech Solution Pvt Limited | 24/08/2019 | Mr Mohammed Abdul Rawoof | 80% | PO1,PO2,PO 3,PO 4, PO 5,PO6,PO7 PO 11 & PO 12PO 3,PO 4, PO 5, PO 11 & PO 12<br>PSO 1,2,3 |
| 10 | Data Cube Technology | Seminar | 28/08/2019 | Dr M.S. Qaseem, Vice Principal & Head of CSE Dept | 80% | PO6,PO7,PO8,PO11& PO12<br>PSO 1,2,3 |
| 11 | Industry Requirements | Industrial Visit to Ruchi Web Solution | 23/07/2019 | Mr. Mohd. Khaleel Ahmed | 80% | PO7,PO8,PO11& PO12<br>PSO 1,2,3 |

| Sl. No | Gap | Action Taken | Date – Month – Year(2018-2019) | Resource Person with Designation | No of Students | Relevance to POs and PSOs |
|---|---|---|---|---|---|---|
| 1 | Industry Requirements | Industrial Visit to Amtech Software Solutions | 22/03/2019 | Mr Mohammed Abdul Rawoof | 80% | PO6,PO7,PO8,PO11& PO12<br>PSO 1,2,3 |
| 2 | Basic Python | Workshop | 05/01/2019 | Mr Abdul Muqeeth | 70% | PO7,PO8,PO11& PO12<br>PSO 1,2,3 |
| 3 | Linux, Python and Free Software | 2 Days Workshop | 27/07/18-28/07/18 | Dr. C. Krishna Mohan, IIITH,Dr. L.Pratap Reddy, JNTUH | 85% | PO2,PO3,PO4,PO6<br>PSO 1,2,3 |
| 4 | Using program Analysis for Optimization | Seminar | 18/08/2018 | Ms.SYEDA FARHATH BEGUM | 80% | PO7,PO8,PO11& PO12<br>PSO 1,2,3 |
| 5 | Network security Tools | Seminar | 22/09/2018 | Mr .Mohd Khaleel Ahmed | 60% | PO7,PO8,PO11& PO12<br>PSO 1,2,3 |
| 6 | Artificial Intelligence | Guest Lecture | 06/10/2018 | Dr. Raziuddin {Prof and Head , DCET, Hyderabad | 70% | PO7,PO8,PO11& PO12<br>PSO 1,2,3 |
| 7 | Cyber Security | Seminar | 27/102018 | Ms Waseema Masood | 65% | PO1,PO2<br>PO6,PO7,PO8,PO11& PO12<br>PSO 1,2,3 |
| 8 | Database Management Systems | Guest Lecture | 22/02/2018 | Dr. G. Venkat Rami Reddy, Prof., JNTUH | 80% | PO6,PO7,PO8,PO11& PO12<br>PSO 1,2,3 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 | Working Models | Techno Vision | 28/02/2018 | Dr. L.Pratap Reddy, JNTUH | 85% | PO2,PO4,PO6,PO7<br>PSO 1,2,3 |
| 10 | Data Analytics | Seminar | 20/10/2018 | Dr M.S.Qaseem, Vice Principal & Head of CSE Dept | 80% | PO7,PO8,PO11& PO12<br>PSO 1,2,3 |

**2.1.2 Mapping of content beyond syllabus with PO's & PSO'S**

| TOPICS | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Insights on Bock chain& Career Opportunities | ✔ | ✔ | ✔ | ✔ | - | - | - | - | - | - | | ✔ |
| Break Through to Excellence | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | - | - | - | ✔ | ✔ |
| Personal Branding | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | - | - | - | ✔ | ✔ |
| Personal journey with IEEE | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | - | - | - | ✔ | ✔ |
| Digital Marketing As a Career | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | - | - | - | ✔ | ✔ |
| Insight On Data Science | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | - | - | - | ✔ | ✔ |
| Career in Cyber Security | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | - | - | - | ✔ | ✔ |
| Data Structure | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | - | - | - | ✔ | ✔ |
| Data Science Applications and Opportunities | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | - | - | - | ✔ | ✔ |
| Block Chain Technology | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | - | - | - | ✔ | ✔ |
| An IOT Forecast that is sunny and clear | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | - | - | - | ✔ | ✔ |
| Confidence & Procrastination | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | - | - | - | ✔ | ✔ |
| Artificial Intelligence | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | - | - | - | ✔ | ✔ |
| 5G& 6G Services Network Outlook | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | - | - | - | ✔ | ✔ |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R Programming | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | - | - | - | ✔ | ✔ |

- **Mapping of content beyond syllabus with PSO's:**

  - **CAY2020-2021**

| TOPICS | PSO1 | PSO2 | PSO3 |
|---|---|---|---|
| Insights on Block chain & Career Opportunities | ✔ | ✔ | ✔ |
| Break Through to Excellence | ✔ | ✔ | ✔ |
| Personal Branding | ✔ | ✔ | ✔ |
| Personal journey with IEEE | ✔ | ✔ | ✔ |
| Digital Marketing As a Career | ✔ | ✔ | ✔ |
| Insight On Data Science | ✔ | ✔ | ✔ |
| Career in Cyber Security | ✔ | ✔ | ✔ |
| Data Structure | ✔ | ✔ | ✔ |
| Data Science Application and Opportunities | ✔ | ✔ | ✔ |
| Block Chain Technology | ✔ | ✔ | ✔ |
| An IOT Forecast that Is Sunny And Clear | ✔ | ✔ | ✔ |

| | | | |
|---|---|---|---|
| Confidence & Procrastination | ✔ | ✔ | ✔ |
| Artificial Intelligence | ✔ | ✔ | ✔ |
| 5G& 6G Services Network Outlook | ✔ | ✔ | ✔ |
| R Programming | ✔ | ✔ | ✔ |

**Mapping Of Content beyond Syllabus with PO's:**

**CAY2019-2020**

| TOPICS | PO 1 | PO 2 | PO 3 | PO 4 | PO 5 | PO 6 | PO 7 | PO 8 | PO 9 | PO 10 | PO 11 | PO 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Industrial Visit to T-Hub IIT | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | - | - | - | ✔ | ✔ |
| Data Analytics in Cloud Environment | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | - | - | - | ✔ | ✔ |
| Data Science Using Machine Learning | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | - | - | - | ✔ | ✔ |
| Industrial Visit To 'Infosys' | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | - | - | - | - | ✔ | ✔ |
| Entrepreneurship & Recent Trends in CSE | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | - | - | - | ✔ | ✔ |
| Self Learning hackathon | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | - | - | - | ✔ | ✔ |
| Industrial Visit to Enaayah software development & services | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | - | - | - | ✔ | ✔ |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Metadata Management | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | - | - | - | ✔ | ✔ |
| Industrial Visit to Pantech Solution Pvt Limited | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | - | - | - | ✔ | ✔ |
| Data Cube Technology | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | - | - | - | ✔ | ✔ |
| Industrial Visit to Ruchi Web Solutions | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | - | - | - | ✔ | ✔ |

- **Mapping of content beyond syllabus with PSO's:**
  - **CAY2019-2020**

| TOPICS | PSO1 | PSO2 | PSO3 |
|---|---|---|---|
| Industrial Visit to T-Hub IIT | ✔ | ✔ | ✔ |
| Data Analytics in Cloud Environment | ✔ | ✔ | ✔ |
| Data Science Using Machine Learning | ✔ | ✔ | ✔ |
| Industrial Visit To 'Infosys' | ✔ | ✔ | ✔ |
| Entrepreneurship & Recent Trends in CSE | ✔ | ✔ | ✔ |
| Self Learning hackathon | ✔ | ✔ | ✔ |
| Industrial Visit to Enaayah Software Development & Services | ✔ | ✔ | ✔ |
| Metadata Management | ✔ | ✔ | ✔ |
| Industrial Visit to Pantech Solution Pvt Limited | ✔ | ✔ | ✔ |
| Data Cube Technology | ✔ | ✔ | ✔ |

| | | | |
|---|---|---|---|
| Industrial Visit to Ruchi Web Solutions | ✔ | ✔ | ✔ |

**Mapping Of Content beyond Syllabus with PO's:**
**CAY2018-2019**

| TOPICS | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Industrial Visit to Amtech software solutions | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | - | - | - | ✔ | ✔ |
| Basic Python | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | - | - | - | ✔ | ✔ |
| Linux, Python and Free Software | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | - | - | - | ✔ | ✔ |
| Using program Analysis for Optimization | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | | - | - | - | ✔ | ✔ |
| Network security Tools | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | | - | - | - | ✔ | ✔ |
| Artificial Intelligence | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | | - | - | - | ✔ | ✔ |
| Cyber Security | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | - | - | - | ✔ | ✔ |
| Database Management Systems | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | - | - | - | ✔ | ✔ |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Techno Vision | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | - | - | - | ✔ | ✔ |
| Data Analytics | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | - | - | - | ✔ | ✔ |

- **Mapping of content beyond syllabus with PSO's:**
  - **CAY2019-2020**

| TOPICS | PSO1 | PSO2 | PSO3 |
|---|---|---|---|
| Industrial Visit to Amtech software solutions | ✔ | ✔ | ✔ |
| Basic Python | ✔ | ✔ | ✔ |
| Linux, Python and Free Software | ✔ | ✔ | ✔ |
| Using program Analysis for Optimization | ✔ | ✔ | ✔ |
| Network security Tools | ✔ | ✔ | ✔ |
| Artificial Intelligence | ✔ | ✔ | ✔ |
| Cyber Security | ✔ | ✔ | ✔ |
| Database Management Systems | ✔ | ✔ | ✔ |
| Techno Vision | ✔ | ✔ | ✔ |
| Data Analytics | ✔ | ✔ | ✔ |

## 2.2 Teaching - Learning Processes (100)

Total Marks 100.00

### 2.2.1 Describe processes followed to improve quality of Teaching & Learning (25)

Institute Marks : 25.00

To improve the quality policy in the Department, faculty strictly adheres to the University, Institutional and Department Calendars.

1. **University Calendar:** Our college has changed its affiliation from JNTUH, Hyderabad to the Osmania University, Hyderabad since the Academic year 2019-20. So currently 1st and 2nd year BE / BTech are under Osmania University and 3rd & 4th year BE / BTech are under JNTUH. Hence the University academic calendars have been provided by both the JNTUH, Hyderabad and the Osmania University every year. For every academic year, the concerned University circulates the academic calendars for both odd and even semesters before the commencement of the classwork. The sample of the calendar (2020 –2021) for both the universities is given below:

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**
**REVISED ACADEMIC CALENDAR 2020-21**
**For All Constituent & Affiliated Colleges of JNTUH**
B. Tech./B.Pharm. II, III & IV Years I & II Semesters

**B. Tech./B.Pharm. II, III & IV Years - I Semester**

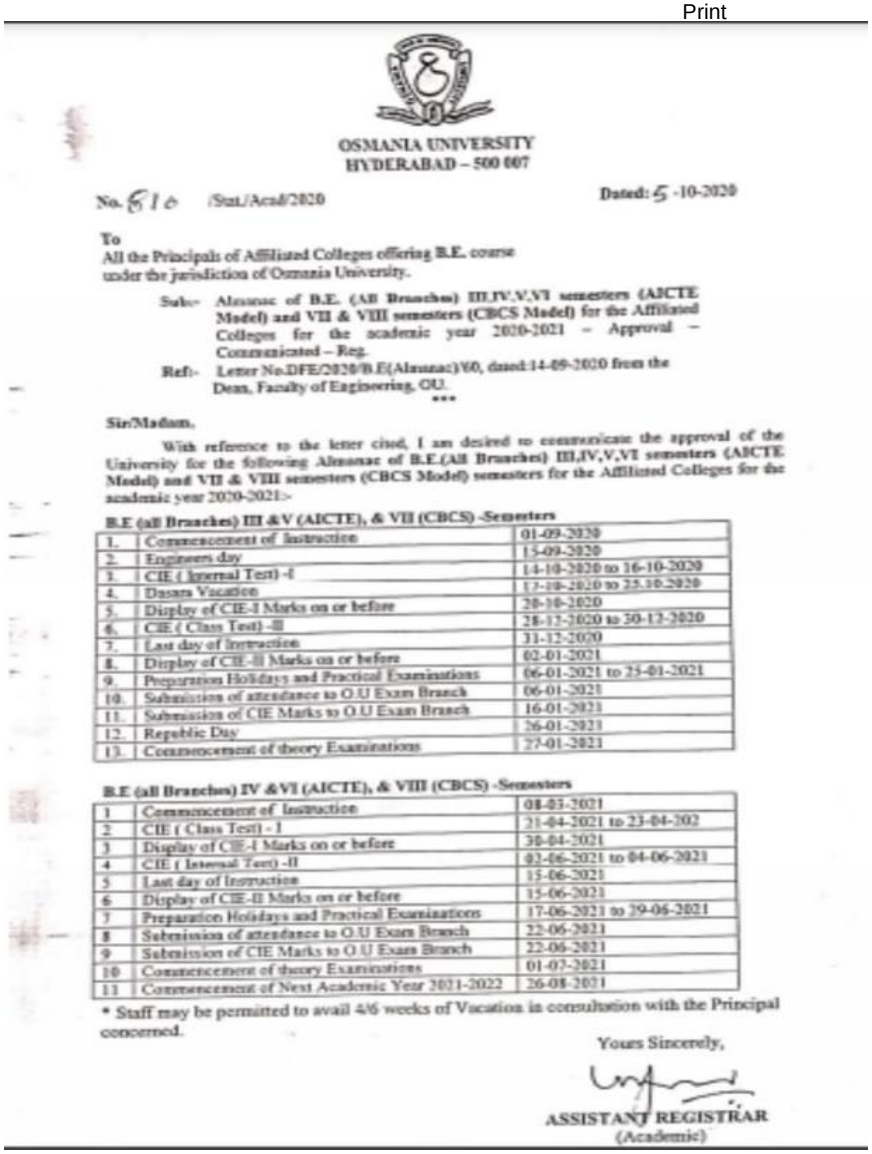
| S. No | Description | Duration | |
|---|---|---|---|
| | | From | To |
| 1 | Commencement of I Semester classwork | 01.09.2020 | |
| 2 | 1st Spell of Instructions (including Dussehra Recess) | 01.09.2020 | 31.10.2020 (9 Weeks) |
| 3 | Dussehra Recess | 19.10.2020 | 24.10.2020 |
| 4 | End Examinations preparation holidays - Previous Semesters | 02.11.2020 | 04.11.2020 (3 days) |
| 5 | 2nd Spell of Instructions (including First Mid Term Examinations) | 14.12.2020 | 13.02.2021 (9 Weeks) |
| 6 | First Mid Term Examinations | 21.12.2020 | 28.12.2020 (1 Week) |
| 7 | Submission of First Mid Term Exam Marks to the University on or before | 04.01.2021 | |
| 8 | Second Mid Term Examinations | 15.02.2021 | 20.02.2021 (1 Week) |
| 9 | Practical classes | 22.02.2021 | 27.02.2021 (1 Week) |
| 10 | Preparation Holidays and Practical Examinations | 01.03.2021 | 06.03.2021 (1 Week) |
| 11 | Submission of Second Mid Term Exam Marks to the University on or before | 06.03.2021 | |
| 12 | End Semester Examinations | 08.03.2021 | 20.03.2021 (2 Weeks) |

**B. Tech./ B.Pharm. II, III & IV Years - II Semester**

| S. No | Description | Duration | |
|---|---|---|---|
| | | From | To |
| 1 | Commencement of II Semester classwork | **22.03.2021** | |
| 2 | 1st Spell of Instructions | 22.03.2021 | 15.05.2021 (8 Weeks) |
| 3 | Summer Vacation | 17.05.2021 | 29.05.2021 (2 Weeks) |
| 4 | First Mid Term Examinations | 31.05.2021 | 05.06.2021 (1 Week) |
| 5 | Submission of First Mid Term Exam Marks to the University on or before | 11.06.2021 | |
| 6 | 2nd Spell of Instructions | 07.06.2021 | 31.07.2021 (8 Weeks) |
| 7 | Second Mid Term Examinations | 02.08.2021 | 07.08.2021 (1 Week) |
| 8 | Preparation Holidays and Practical Examinations | 09.08.2021 | 14.08.2021 (1 Week) |
| 9 | Submission of Second Mid Term Exam Marks to the University on or before | 14.08.2021 | |
| 10 | End Semester Examinations | 16.08.2021 | 28.08.2021 (2 Weeks) |

Note: 1 All the laboratory courses shall be conducted once normalcy is restored.
2 Regular End Semester Examinations of previous Semester (including lab exams) as per the data received from the Examination branch: 05.11.2020 to 11.12.2020.

**Sd/- xxxxxx**
**DIRECTOR, ACADEMIC & PLANNING**



OSMANIA UNIVERSITY
HYDERABAD – 500 007

No. 616 /Stat./Acad/2020 Dated: 5 -10-2020

To
All the Principals of Affiliated Colleges offering B.E. course
under the jurisdiction of Osmania University.

Sub:- Almanac of B.E. (All Branches) III,IV,V,VI semesters (AICTE Model) and VII & VIII semesters (CBCS Model) for the Affiliated Colleges for the academic year 2020-2021 – Approval – Communicated – Reg.

Ref:- Letter No.DFE/2020/B.E(Almanac)/60, dated:14-09-2020 from the Dean, Faculty of Engineering, OU.

***

Sir/Madam,

With reference to the letter cited, I am desired to communicate the approval of the University for the following Almanac of B.E.(All Branches) III,IV,V,VI semesters (AICTE Model) and VII & VIII semesters (CBCS Model) semesters for the Affiliated Colleges for the academic year 2020-2021:-

**B.E (all Branches) III &V (AICTE), & VII (CBCS) -Semesters**

| | | |
|---|---|---|
| 1. | Commencement of Instruction | 01-09-2020 |
| 2. | Engineers day | 15-09-2020 |
| 3. | CIE ( Internal Test) -I | 14-10-2020 to 16-10-2020 |
| 4. | Dasara Vacation | 17-10-2020 to 25.10.2020 |
| 5. | Display of CIE-I Marks on or before | 28-10-2020 |
| 6. | CIE ( Class Test) -II | 28-12-2020 to 30-12-2020 |
| 7. | Last day of Instruction | 31-12-2020 |
| 8. | Display of CIE-II Marks on or before | 02-01-2021 |
| 9. | Preparation Holidays and Practical Examinations | 06-01-2021 to 25-01-2021 |
| 10. | Submission of attendance to O.U Exam Branch | 06-01-2021 |
| 11. | Submission of CIE Marks to O.U Exam Branch | 16-01-2021 |
| 12. | Republic Day | 26-01-2021 |
| 13. | Commencement of theory Examinations | 27-01-2021 |

**B.E (all Branches) IV &VI (AICTE), & VIII (CBCS) -Semesters**

| | | |
|---|---|---|
| 1 | Commencement of Instruction | 08-03-2021 |
| 2 | CIE ( Class Test) - I | 21-04-2021 to 23-04-202 |
| 3 | Display of CIE-I Marks on or before | 30-04-2021 |
| 4 | CIE ( Internal Test) -II | 02-06-2021 to 04-06-2021 |
| 5 | Last day of Instruction | 15-06-2021 |
| 6 | Display of CIE-II Marks on or before | 15-06-2021 |
| 7 | Preparation Holidays and Practical Examinations | 17-06-2021 to 29-06-2021 |
| 8 | Submission of attendance to O.U Exam Branch | 22-06-2021 |
| 9 | Submission of CIE Marks to O.U Exam Branch | 22-06-2021 |
| 10 | Commencement of theory Examinations | 01-07-2021 |
| 11 | Commencement of Next Academic Year 2021-2022 | 26-08-2021 |

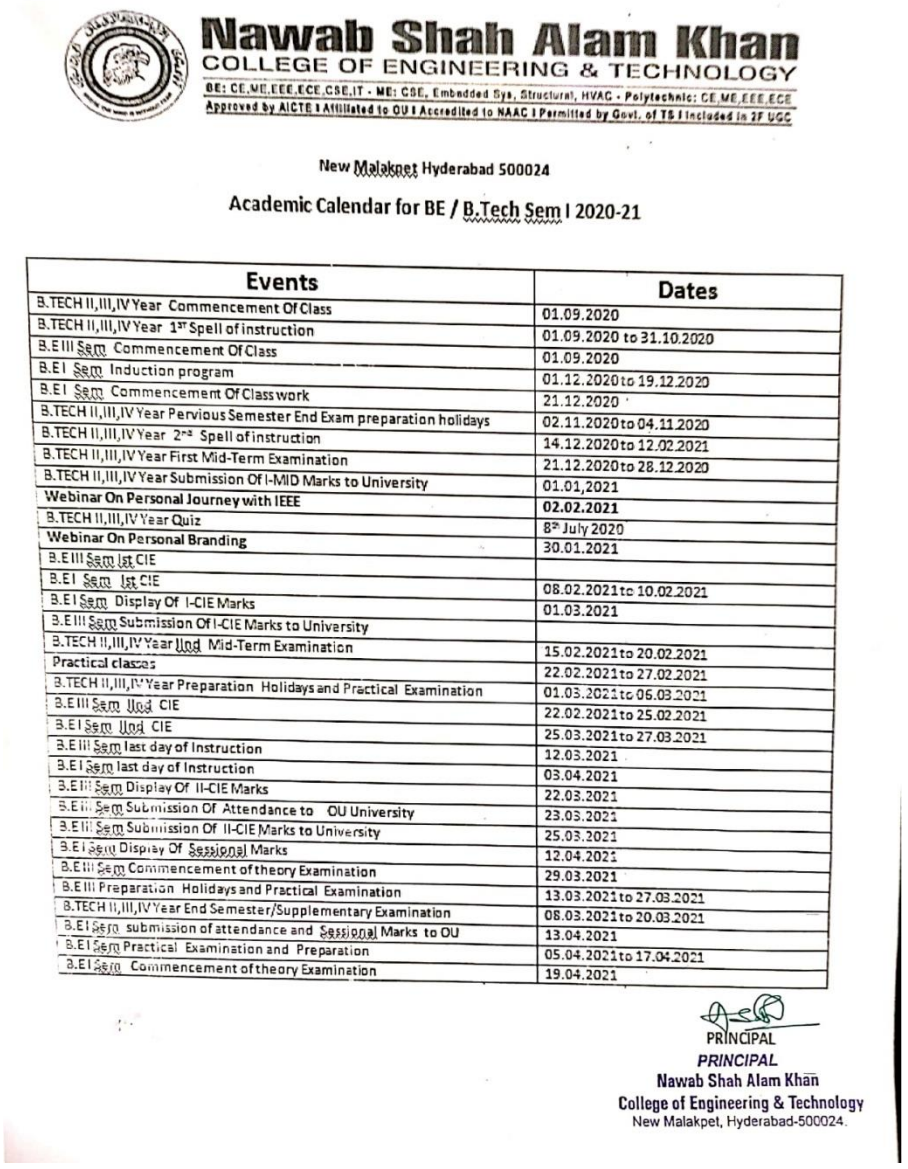
* Staff may be permitted to avail 4/6 weeks of Vacation in consultation with the Principal concerned.

Yours Sincerely,

ASSISTANT REGISTRAR
(Academic)

**Fig 2.5 University Academic Calendar for 2020 – 2021**

2. **Institute Calendar-** It has been prepared every year just after receipt of the University academic calendar. It contains the events of the University and the events of the Institute which are useful in overall development of the Students. We follow the institute academic calendar in total. Our management and higher officials are keen to follow up the academic calendar. From the college calendar of events a Department calendar of events is derived which is specific to the Department. The sample of the calendar of (2020-21) semester 1 is given below:



**Nawab Shah Alam Khan**
COLLEGE OF ENGINEERING & TECHNOLOGY
BE: CE,ME,EEE,ECE,CSE,IT - ME: CSE, Embedded Sys, Structural, HVAC - Polytechnic: CE,ME,EEE,ECE
Approved by AICTE I Affiliated to OU I Accredited to NAAC I Permitted by Govt. of TS I Included in 2F UGC

New Malakpet Hyderabad 500024

Academic Calendar for BE / B.Tech Sem I 2020-21

| Events | Dates |
|---|---|
| B.TECH II,III,IV Year Commencement Of Class | 01.09.2020 |
| B.TECH II,III,IV Year 1st Spell of instruction | 01.09.2020 to 31.10.2020 |
| B.E III Sem Commencement Of Class | 01.09.2020 |
| B.E I Sem Induction program | 01.12.2020 to 19.12.2020 |
| B.E I Sem Commencement Of Class work | 21.12.2020 |
| B.TECH II,III,IV Year Pervious Semester End Exam preparation holidays | 02.11.2020 to 04.11.2020 |
| B.TECH II,III,IV Year 2nd Spell of instruction | 14.12.2020 to 12.02.2021 |
| B.TECH II,III,IV Year First Mid-Term Examination | 21.12.2020 to 28.12.2020 |
| B.TECH II,III,IV Year Submission Of I-MID Marks to University | 01.01,2021 |
| **Webinar On Personal Journey with IEEE** | **02.02.2021** |
| B.TECH II,III,IV Year Quiz | 8th July 2020 |
| **Webinar On Personal Branding** | 30.01.2021 |
| B.E III Sem Ist CIE | |
| B.E I Sem Ist CIE | 08.02.2021 to 10.02.2021 |
| B.E I Sem Display Of I-CIE Marks | 01.03.2021 |
| B.E III Sem Submission Of I-CIE Marks to University | |
| B.TECH II,III,IV Year IInd Mid-Term Examination | 15.02.2021 to 20.02.2021 |
| Practical classes | 22.02.2021 to 27.02.2021 |
| B.TECH II,III,IV Year Preparation Holidays and Practical Examination | 01.03.2021 to 06.03.2021 |
| B.E III Sem IInd CIE | 22.02.2021 to 25.02.2021 |
| B.E I Sem IInd CIE | 25.03.2021 to 27.03.2021 |
| B.E III Sem last day of Instruction | 12.03.2021 |
| B.E I Sem last day of Instruction | 03.04.2021 |
| B.E III Sem Display Of II-CIE Marks | 22.03.2021 |
| B.E III Sem Submission Of Attendance to OU University | 23.03.2021 |
| B.E III Sem Submission Of II-CIE Marks to University | 25.03.2021 |
| B.E I Sem Display Of Sessional Marks | 12.04.2021 |
| B.E III Sem Commencement of theory Examination | 29.03.2021 |
| B.E III Preparation Holidays and Practical Examination | 13.03.2021 to 27.03.2021 |
| B.TECH II,III,IV Year End Semester/Supplementary Examination | 08.03.2021 to 20.03.2021 |
| B.E I Sem submission of attendance and Sessional Marks to OU | 13.04.2021 |
| B.E I Sem Practical Examination and Preparation | 05.04.2021 to 17.04.2021 |
| B.E I Sem Commencement of theory Examination | 19.04.2021 |

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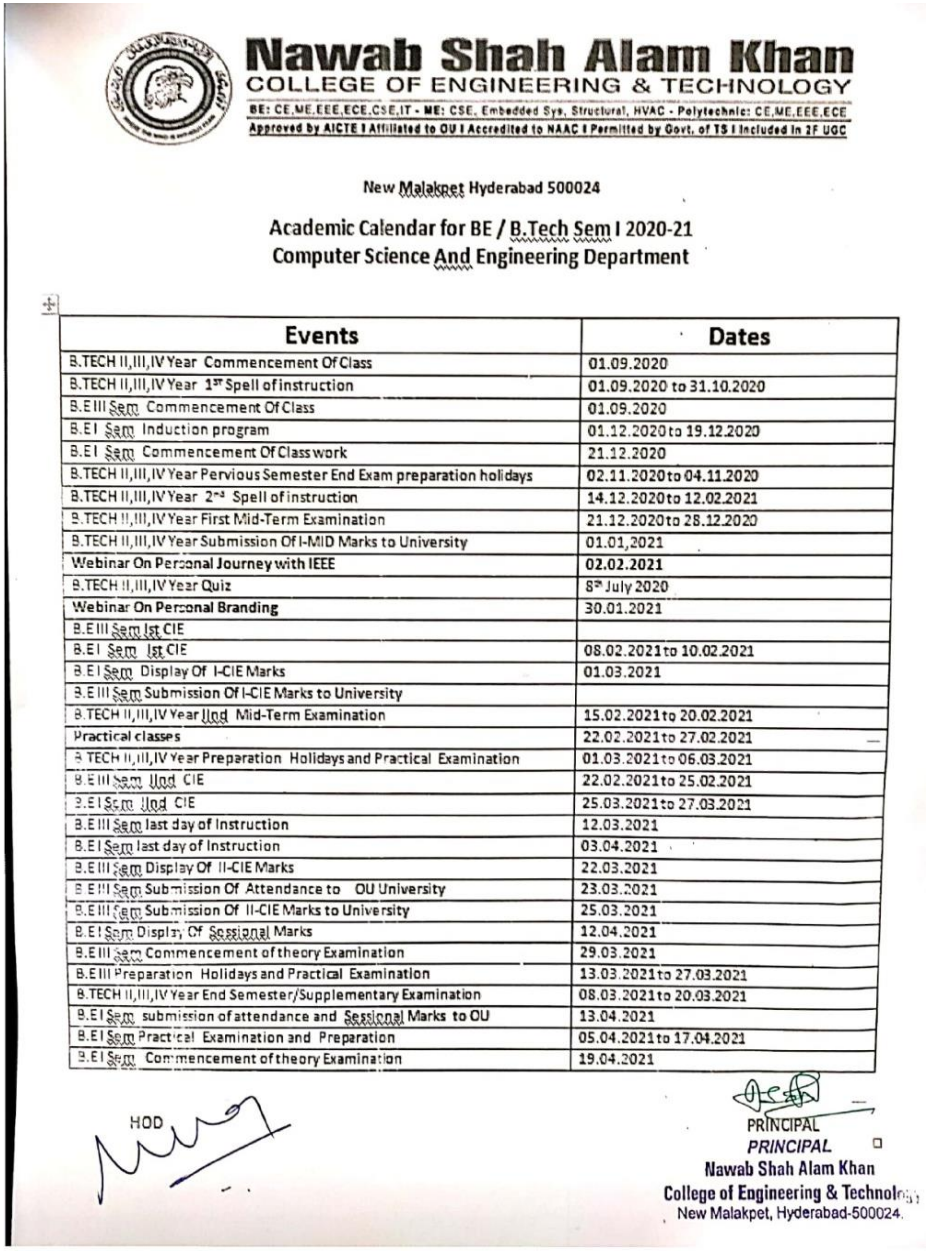
New Malakpet, Hyderabad-500024.

**Fig 2.6 Institute Academic Calendar for 2020 – 2021**

3. **Departmental Calendar:** Departmental calendar (based on University calendar and Institutional calendar) is prepared before the commencement of the each semester. It presents the activities planned for the semester. Subject allotment is done well in advance forthe staff to prepare lesson plans, soft and hard copies of the lecture notes.

Sample academic calendar of CSE Department



**Nawab Shah Alam Khan**
COLLEGE OF ENGINEERING & TECHNOLOGY
BE: CE,ME,EEE,ECE,CSE,IT - ME: CSE, Embedded Sys, Structural, HVAC - Polytechnic: CE,ME,EEE,ECE
Approved by AICTE I Affiliated to OU I Accredited to NAAC I Permitted by Govt. of TS I Included in 2F UGC

New Malakpet Hyderabad 500024

Academic Calendar for BE / B.Tech Sem I 2020-21
Computer Science And Engineering Department

| Events | Dates |
|---|---|
| B.TECH II,III,IV Year Commencement Of Class | 01.09.2020 |
| B.TECH II,III,IV Year 1st Spell of instruction | 01.09.2020 to 31.10.2020 |
| B.E III Sem Commencement Of Class | 01.09.2020 |
| B.E I Sem Induction program | 01.12.2020 to 19.12.2020 |
| B.E I Sem Commencement Of Class work | 21.12.2020 |
| B.TECH II,III,IV Year Pervious Semester End Exam preparation holidays | 02.11.2020 to 04.11.2020 |
| B.TECH II,III,IV Year 2nd Spell of instruction | 14.12.2020 to 12.02.2021 |
| B.TECH II,III,IV Year First Mid-Term Examination | 21.12.2020 to 28.12.2020 |
| B.TECH II,III,IV Year Submission Of I-MID Marks to University | 01.01,2021 |
| Webinar On Personal Journey with IEEE | 02.02.2021 |
| B.TECH II,III,IV Year Quiz | 8th July 2020 |
| Webinar On Personal Branding | 30.01.2021 |
| B.E III Sem Ist CIE | |
| B.E I Sem Ist CIE | 08.02.2021 to 10.02.2021 |
| B.E I Sem Display Of I-CIE Marks | 01.03.2021 |
| B.E III Sem Submission Of I-CIE Marks to University | |
| B.TECH II,III,IV Year IInd Mid-Term Examination | 15.02.2021 to 20.02.2021 |
| Practical classes | 22.02.2021 to 27.02.2021 |
| B.TECH II,III,IV Year Preparation Holidays and Practical Examination | 01.03.2021 to 06.03.2021 |
| B.E III Sem IInd CIE | 22.02.2021 to 25.02.2021 |
| B.E I Sem IInd CIE | 25.03.2021 to 27.03.2021 |
| B.E III Sem last day of Instruction | 12.03.2021 |
| B.E I Sem last day of Instruction | 03.04.2021 |
| B.E III Sem Display Of II-CIE Marks | 22.03.2021 |
| B.E III Sem Submission Of Attendance to OU University | 23.03.2021 |
| B.E III Sem Submission Of II-CIE Marks to University | 25.03.2021 |
| B.E I Sem Displa; Of Sessional Marks | 12.04.2021 |
| B.E III Sem Commencement of theory Examination | 29.03.2021 |
| B.E III Preparation Holidays and Practical Examination | 13.03.2021 to 27.03.2021 |
| B.TECH II,III,IV Year End Semester/Supplementary Examination | 08.03.2021 to 20.03.2021 |
| B.E I Sem submission of attendance and Sessional Marks to OU | 13.04.2021 |
| B.E I Sem Practical Examination and Preparation | 05.04.2021 to 17.04.2021 |
| B.E I Sem Commencement of theory Examination | 19.04.2021 |

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**Fig 2.7 Department Sample Calendar for (2020 – 2021)**

4. **Teaching plan:**

- Teaching plan has been maintained according to the University as well as Institute's Calendar and also Department Calendar. First we count the total number of days and then plan the lectures accordingly which could cover whole syllabus.
- Teaching plan with course objectives and course outcomes are prepared by the subject handling faculty before the commencement of the semester and is dually approved by the Head of the Department and made available to the Students.
- According to the lesson plan, work done has been inculcated in the course file to ensure coverage of syllabus dually monitored by Head of the Department.

| S.No | Topic | No. of Classes | Expected Date | Completed date | Method of Teaching - Flip / TPS / Ppts / Blackboard |
|---|---|---|---|---|---|
| 1. | Introduction to Data Structures, abstract data types | 1 | 15/7/2019 | 15/7/2019 | |
| 2. | Linear list – singly linked list implementation, insertion | 2 | 18/7/2019 - 19/7/2019 | 18/7/2019 | Blackboard |
| 3. | Linear list – singly linked list implementationdeletion and searching operations on linear list, | 2 | 20/7/2019 - 22/7/2019 | 18/7/2019 - 19/7/2019 | Handwritten Notes + TSPtppts |
| 4. | Stacks-Operations, array and linked representations of stacks, stack applications, | 3 | 23rd, 24th, 25th July 2091 | 20/7/2019- 22/7/2019 | Blackboard |
| 5. | Queues-operations, array and linked representations. | 2-3 | 26th, 27th, 29th July 2019 | 23rd, 24th, 25th July 2091 | TPS Activity Blackboard |
| 6. | REVISION OF COMPLETE FIRST UNIT | 2 | 30,31st July 2019 | 26th, 27th, 29th July 2019 | |
| 7. | Slip Test & Assignment | 1 | 1st Aug 2019 | 30,31st July 2019 | |
| 8. | linear list representation | 2 | 3rd, 5th Aug 2019 | 5th Aug 2019 | |
| 9. | skip list representation, operations - insertion, deletion and searching. | 3 | 6th, 7th, 8th Aug 2019 | 8th Aug 2019 | Handwritten Notes |
| 10. | Hash Table Representationhash functions | 2 | 9th, 10th Aug 2019 | 9th Aug 2019 | Blackboard |
| 11. | collision resolution-separate chaining | 2 | 13,14 Aug 2019 | 13,14 Aug 2019 | Blackboard |
| 12. | open addressing-linear probing, quadratic probing, | 2 | 16,17 Aug 2019 | 16,17 Aug 2019 | Ppts/ SEMINAR |
| 13. | double hashing, rehashing, extendible hashing | 2 | 19,20 Aug 2019 | 19,20 Aug 2019 | |
| 14. | Revision | 2 | 21Aug 2019 | 21Aug 2019 | |
| 15. | Slip Test & Assignment | 1 | 23 Aug 2019 | 23 Aug 2019 | |

| | | | | | |
|---|---|---|---|---|---|
| 16. | Binary Search Trees, Definition, Implementation, Operations- Searching, Insertion and Deletion, | 3 | 26 -28 Aug 2019 | 26 -28 Aug 2019 | Blackboard Flipped class https://nptel.ac.in/courses/106105031/23 |
| 17. | AVL Trees, Definition, Height of an AVL Tree, Operations – Insertion, Deletion and Searching, Red – Black, Splay Trees. | 4 | 29 Aug- 3rd Sep 2019 | 29 Aug- 3rd Sep 2019 | Blackboard |
| 18. | Revision | 1 | 4th Sep 2019 | 4th Sep 2019 | |
| 19. | Slip Test & Assignment | 1 | 5th Sep 2019 | 5th Sep 2019 | |
| 20. | Graph Implementation Methods, | 3 | 9th – 11th Sep 2019 | 11th Sep 2019 | Blackboard |
| 21. | . Graph Traversal Methods. | 3 | 16 – 18 Sep 2019 | 18 Sep 2019 | Blackboard |
| 22. | Sorting: Heap Sort | 2 | 19-20 Sep 2019 | 19Sep 2019 | TSP |
| 23. | External Sorting- Model for external sorting | 2 | 23 – 24 Sep 2019 | 24 Sep 2019 | SEMINAR |
| 24. | Merge Sort. | 2 | 25th- 26th Sep 2019 | 25th Sep 2019 | |
| 25. | Revision | 1 | 27 th Sep 2019 | 27 th Sep 2019 | |
| 26. | Slip Test & Assignment | 1 | 30 Sep 2019 | 30 Sep 2019 | |
| 27. | Pattern matching algorithms-Brute force | 3 | 1st -4th Oct 2019 | 1st -4th Oct 2019 | Blackboard |
| 28. | the Boyer –Moore algorithm | 2 | 5th -6th Oct 2019 | -6th Oct 2019 | Blackboard |
| 29. | the Knuth-Morris-Pratt algorithm | 3 | 14-17 Oct 2019 | 14- Oct 2019 | PPTs |
| 30. | Standard Tries | 2 | 18- 19 Oct 2019 | 18 Oct 2019 | Blackboard |
| 31. | Compressed Tries | 2 | 21-23 Oct | 21-23 Oct | Blackboard |
| 32. | Suffix tries. | 2 | 24-25th Oct 2019 | 24 th Oct 2019 | |
| 33. | Revision | 1 | 26th Oct 2019 | 26th Oct 2019 | |
| 34. | Slip Test & Assignment | 1 | 28th Oct 2019 | 28th Oct 2019 | |
| 35. | Revision for whole Syllabus | 5 | 4th – 9th Nov 2019 | 9th Nov 2019 | |

**Fig 2.8 Teaching Plan**

To deliver the Course content according to Teaching Plan every faculty maintains the course file whose contents are listed below

Faculty has to maintain Course File that comprises of:

| S.NO | Title |
|---|---|
| 1 | Cover Page |
| 2 | Syllabus copy |
| 3 | Vision & Mission of the Institute |
| 4 | Vision & Mission of the Department |
| 5 | Pos and PSOs |
| 6 | Course objective and Course outcomes |
| 7 | CO PO mapping |
| 8 | CO PO Attainments |

| | |
|---|---|
| 9 | Pre-Requisites if any |
| 10 | Class Time Table |
| 11 | Individual Time Table |
| 12 | Lecture Schedule with methodology been used |
| 13 | Lesson Schedule |
| 14 | Detailed Notes |
| 15 | Additional Topics |
| 16 | University Question Papers of Previous Years |
| 17 | Question Bank |
| 18 | Assignment Questions |
| 19 | Mid Vise Question papers, Keys and Answers |
| 20 | Tutorial Problems |
| 21 | Known Gaps if any |
| 22 | Discussion if any |
| 23 | References |
| 24 | Students list with slow learners and advance learners |

**B. Use of Various Instructional methods and pedagogical initiatives**

The Following are the innovative tools used by the Faculty in Teaching and Learning Process

**1. Group Assignment/ Project**

Instructors can structure a Group Assignment so that each member of the group must submit the assignment or the Group Assignment can be structured so that any member of the group can submit for the entire group.

**2. Models & Charts to give better grasping**

| SNO | ROLL NO | NAME | TITLE NAME |
|---|---|---|---|
| 1 | 16E01A0529 | MD AFZAL ALI | GROSERY LIST |
| 2 | 15H21A0518 | SYED NAVEED HUSSAINI | |
| 3 | 16E01A0502 | TARIQUE MASOOD | |
| 4 | 15E01A0522 | MOHD ARIF | GYM TIMER APP |
| 5 | 16E01A0532 | AKBAR ALI | |
| 6 | 16E01A0523 | SHOAIB MOHAMMED SHAIK | |
| 7 | 16RT1A0524 | MD Moin Uddin Siddiqui | Quit Smoking |
| 8 | 16RT1A0507 | M.A Rahman Qureshi | |
| 9 | 16RT1A0522 | Mohd Kamran Asif | |
| 10 | 16RT1A0519 | Mohammed fazil quddus | shopping list |
| 11 | 16RT1A0514 | MD awaiz ali | |
| 12 | 16RT1A0539 | sabir ahmed chowdhury | |

Instructors can use different charts to explain the algorithms and various models in technical oriented concepts that can create an awareness regarding their academics.

**3. Guest Lectures**

Our Department encourages guest lecturers to motivate the Students and also improve the thinking knowledge related to the current trends in technology.

| | | | | |
|---|---|---|---|---|
| 1 | Data analytics in cloud environment | Guest Lecture | 18/09/19 | Prof. P.V. Sudha, HOD,CSED,OU |
| 2 | Data Science-using Machine Learning &Python | 1 day Workshop | 06/08/2019 | Mr. Pavan Kumar,Mr. Mohan Kumar(IIITH) |

**4.E-class Room**

Faculty are using E-class room for interactive session. LCD Projector is used for

demonstration, video (NPTEL), audio of classes. The faculty members are using multimedia elements such as Tabs and LCD projectors in the classroom. It will help the faculty members to represent the content in a more meaningful way using different media elements

**Think Pair Share Activity**

Stack is used to store data. Stack is first in first out method.

Think phase: time: 5min,

Instructor asks students to write code to create a stack.

Students will write the code using their logic.

Different students will write different codes for the same stack creation program. Pair Phase: Time 5min.

Instructor asks students to compare the code with their neighbor's code. Students will compare their codes with their neighbor's codes.

Different students will get the knowledge of different techniques to write a code for the same problem.

Share Phase: Time 10 min

Instructor asks all students to share their coding techniques.

Students will share their coding techniques with their peers.

Students will come to know the efficient technique for writing code an also the simple one.

**5. Quizzes**

A quiz can function throughout a course as an informative feedback device allowing both the instructor and the Students to see where they are excelling or need more focus. In order to effectively create Exams and **quizzes**, it is important to establish and understand the learning objectives that are being measured.

**C. Methodologies to support weak Students and encourage bright Students**

The Counselors regularly conduct meetings regarding progress of their mentees and are responsible to identify Students who scored less than 60% Marks in their internals. Under the HOD direction, the student Counselors evaluates the progress card of those Students who score below 60% Marks in three or more subject and below 75% attendance are considered as **academically weak Students** and same is also intimated to their parents.

**Methodology to support weak Students:** The Department has a well-defined process of monitoring, guiding and assisting slow learners (weak Students). Teachers attempt to enhance the performance of weak Students as follows:

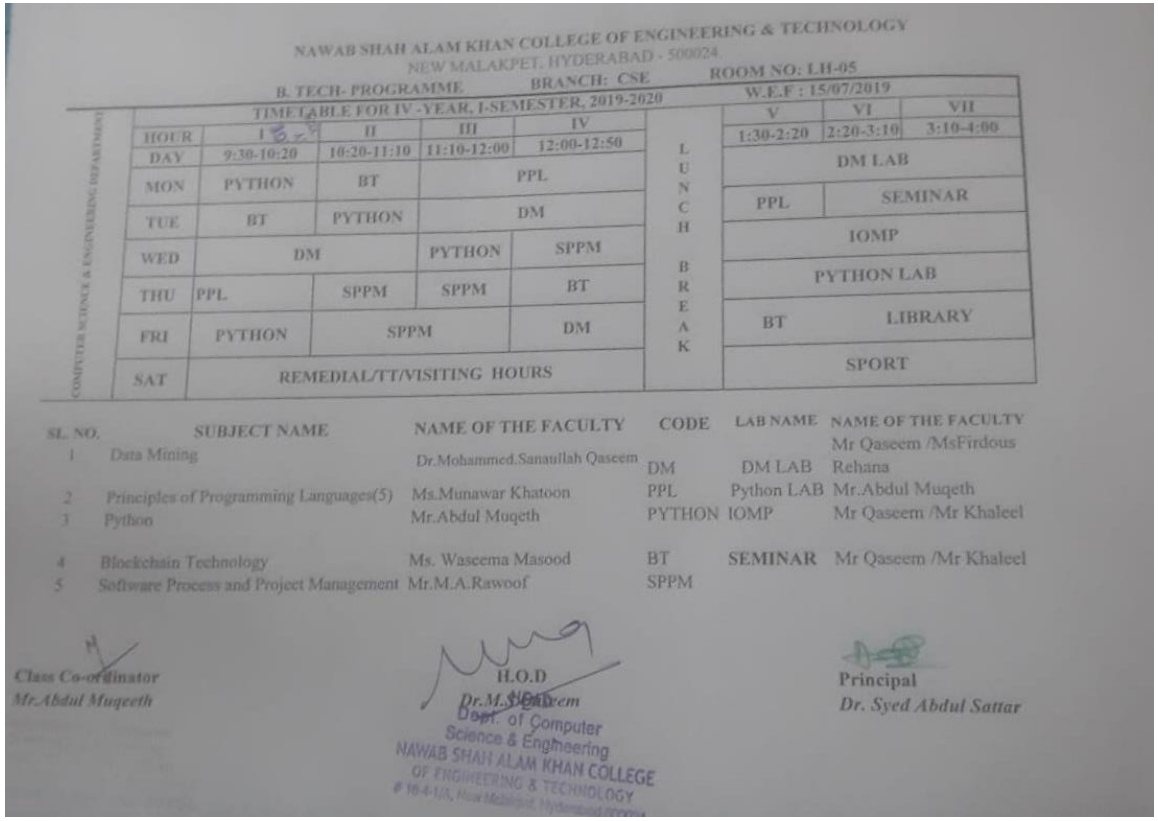
- Care is taken by the faculty in monitoring the performance of slow learners, the Students deviations from studies is observed by the respective section class teacher and corrective measures are suggested.
- The faculty also goes a step ahead and have periodic interaction with the parents about the performance of slow learners.
- A blended motivation and responsibility from both parents and faculty will create a positive mindset and will help to overcome the inabilities and hurdles faced by the slow learners.
- Every parent is informed about the Marks and the Attendance.
- Regular counseling and providing moral support to them by counselor. For each counselor around 20 Students are allotted for counseling. Additional coaching is given to slow learners through Remedial classes.
- Tutorial classes are conducted by the faculty for those Students who have failed in any subject.
- Students are counseled for regular attendance.

**Seminar And Guest Lectures**

| | | | | |
|---|---|---|---|---|
| 1 | Industrial Visit to T-Hub IIT | Industrial Requirements | 90% | 2019 |
| 2 | Data Analytics in Cloud Environment | Guest Lecture | 80 | 2019 |

| | | | | |
|---|---|---|---|---|
| 3 | Data Science Using Machine Learning | Work Shop | 85 | 2019 |
| 4 | Industrial Visit to Infosys | Industrial Requirements | 90 | 2019 |
| 5 | Entrepreneurship& Recent Trend in CSE | Seminar | 90 | 2019 |
| 6 | Hackathon | Self Learning | 80 | 2019 |
| 7 | Linux ,Python & Free Software | Work Shop | 85 | 2018 |
| 8 | Data Base Management System | Guest Lecture | 80 | 2018 |

**Remedial classes Time Table**



NAWAB SHAH ALAM KHAN COLLEGE OF ENGINEERING & TECHNOLOGY
NEW MALAKPET, HYDERABAD - 500024.

B. TECH- PROGRAMME BRANCH: CSE ROOM NO: LH-05

TIMETABLE FOR IV -YEAR, I-SEMESTER, 2019-2020 W.E.F : 15/07/2019

COMPUTER SCIENCE & ENGINEERING DEPARTMENT

| HOUR | I | II | III | IV | LUNCH BREAK | V | VI | VII |
|---|---|---|---|---|---|---|---|---|
| DAY | 9:30-10:20 | 10:20-11:10 | 11:10-12:00 | 12:00-12:50 | | 1:30-2:20 | 2:20-3:10 | 3:10-4:00 |
| MON | PYTHON | BT | PPL | | | DM LAB | | |
| TUE | BT | PYTHON | DM | | | PPL | SEMINAR | |
| WED | DM | | PYTHON | SPPM | | IOMP | | |
| THU | PPL | SPPM | SPPM | BT | | PYTHON LAB | | |
| FRI | PYTHON | SPPM | | DM | | BT | LIBRARY | |
| SAT | REMEDIAL/TT/VISITING HOURS | | | | | SPORT | | |

| SL. NO. | SUBJECT NAME | NAME OF THE FACULTY | CODE | LAB NAME | NAME OF THE FACULTY |
|---|---|---|---|---|---|
| 1 | Data Mining | Dr.Mohammed.Sanaullah Qaseem | DM | DM LAB | Mr Qaseem /MsFirdous Rehana |
| 2 | Principles of Programming Languages(5) | Ms.Munawar Khatoon | PPL | Python LAB | Mr.Abdul Muqeth |
| 3 | Python | Mr.Abdul Muqeth | PYTHON | IOMP | Mr Qaseem /Mr Khaleel |
| 4 | Blockchain Technology | Ms. Waseema Masood | BT | SEMINAR | Mr Qaseem /Mr Khaleel |
| 5 | Software Process and Project Management | Mr.M.A.Rawoof | SPPM | | |

Class Co-ordinator
Mr.Abdul Muqeth

H.O.D
Dr.M.S.Qaseem
Dept. of Computer Science & Engineering
NAWAB SHAH ALAM KHAN COLLEGE OF ENGINEERING & TECHNOLOGY

Principal
Dr. Syed Abdul Sattar

- **Bright Students are encourage to do the following:**
- To participate in seminars, workshops, Presentation, group discussion, Video streaming sessions, NPTEL lectures, etc.,

**D. Quality of classroom teaching (Observation in a class)**

- Faculty maintains Teaching plan, Tutorial classes list, Teaching notes, Attendance registers, Teaching diaries relative to their subject. Duration of each Theory Session is 50 minutes, Laboratory session is 3 Hrs.
- The faculty of Department adopts various innovative Teaching & Learning methodologies to create the best learning environment for Students. Lectures are delivered to Students as per Teaching plan.
- Faculty provides brief summary of last class before the start of new topic.
- Computers are used for teaching purposes and internet facility is available to Students and faculty.
- Faculty members are taking advantage of sources like National Program on Technology Enhanced Learning (NPTEL), internet sources for effective teaching. ICTs, are used for teaching purposes.

**E. Conducts of Experiments (Observation in Lab)**

- Course coordinator along with the faculty are involved in preparation of laboratory manual.
- The Computer Science and Engineering Laboratories are conducted in duration of 3 hours with the faculty demonstrating the logic of a program and design/ algorithm of the experiment. Two faculty members and one instructor are assigned for each lab session. This guides the students to understand and perform experiment easily.
- The students perform the experiment and note the output of the program in the observation book.
- The performance of each student in the laboratory during the three hour laboratory session is evaluated for 10 Marks. The executed experiment is documented by the Students in the record book and is evaluated for 5 Marks.
- Each student prepares a lab Record which is assessed by the teacher before commencement of the next practical.
- In each laboratory, the Students are trained to perform experiments on content beyond syllabus for better understanding/performance and to meet the industry requirements. The Internal Laboratory Exam is evaluated for 10 Marks.
- The total Internal Assessment is evaluated for **25 Marks** (Day to Day Performance **(10M)** + Record **(5M)** + Internal Exam **(10M)**).

As per the University, Curriculum stipulates a Minimum of 2 laboratory courses or a Maximum of 4 laboratory courses per semester from **I to VII** semester. As per the University guidelines 10 – 12 experiments are to be conducted. Students carry out more than the required number of experiments, beyond the minimum specified by the University.

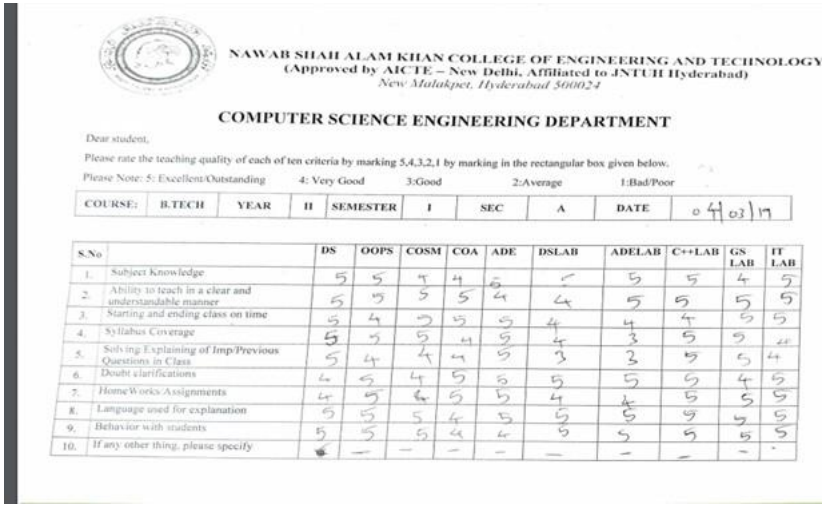
### F. Continuous Assessment in the Laboratory

Continuous Assessment system is also implemented for assessment of laboratory work. The Assessment is done on the basis of Day to Day Performance, Laboratory Record and Internal Lab Examination

| S.NO | Day to Day Performance | Record Assessment | Internal Lab Examination | TOTAL |
|---|---|---|---|---|
| 1 | 10 Marks | 5 Marks | 10 Marks | **25** Marks |

### G. Student feedback of teaching learning process and action taken

Student feedback is collected twice in a semester. Students fills a feedback-form apprising the faculty using a scale of 1 (low) through 5 (high) which helps in continuously



NAWAB SHAH ALAM KHAN COLLEGE OF ENGINEERING AND TECHNOLOGY
(Approved by AICTE – New Delhi, Affiliated to JNTUH Hyderabad)
New Malakpet, Hyderabad 500024

COMPUTER SCIENCE ENGINEERING DEPARTMENT

Dear student,

Please rate the teaching quality of each of ten criteria by marking 5,4,3,2,1 by marking in the rectangular box given below.

Please Note: 5: Excellent/Outstanding 4: Very Good 3:Good 2:Average 1:Bad/Poor

| COURSE: | B.TECH | YEAR | II | SEMESTER | I | SEC | A | DATE | 04/03/19 |
|---|---|---|---|---|---|---|---|---|---|

| S.No | | DS | OOPS | COSM | COA | ADE | DSLAB | ADELAB | C++LAB | GS LAB | IT LAB |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. | Subject Knowledge | 5 | 5 | 4 | 4 | 5 | 5 | 5 | 5 | 4 | 5 |
| 2. | Ability to teach in a clear and understandable manner | 5 | 5 | 5 | 5 | 4 | 4 | 5 | 5 | 5 | 5 |
| 3. | Starting and ending class on time | 5 | 4 | 5 | 5 | 5 | 4 | 4 | 4 | 5 | 5 |
| 4. | Syllabus Coverage | 5 | 5 | 5 | 4 | 5 | 4 | 3 | 5 | 5 | 4 |
| 5. | Solving Explaining of Imp/Previous Questions in Class | 5 | 4 | 4 | 4 | 5 | 3 | 3 | 5 | 5 | 4 |
| 6. | Doubt clarifications | 4 | 5 | 4 | 5 | 5 | 5 | 5 | 5 | 4 | 5 |
| 7. | HomeWorks/Assignments | 4 | 5 | 4 | 5 | 5 | 4 | 4 | 5 | 5 | 5 |
| 8. | Language used for explanation | 5 | 5 | 5 | 4 | 5 | 5 | 5 | 5 | 5 | 5 |
| 9. | Behavior with students | 5 | 5 | 5 | 4 | 4 | 5 | 5 | 5 | 5 | 5 |
| 10. | If any other thing, please specify | 4 | – | – | – | – | – | – | – | – | – |

monitoring and improving Teaching Learning Process.

## 2.2.2 Quality of internal semester Question papers, Assignments and Evaluation (20)

Institute Marks : 20.00

### A. Process of internal question paper setting, evaluation and effective process implementation

- Subjective Tests Questions (I & II) are framed as per the COs.
- The Department Examination Section monitors the smooth conduction of Subjective Test in the Department.

### Process of Subjective Test

1. Two Subjective Tests are conducted per semester.
2. Each Subjective Test covers half of the syllabus.
3. For every 8 weeks 1 Subjective Test is conducted.

4. For each subject, Assignment questions are prepared for all the units.
5. While setting the question paper all previous University Exam papers are taken into consideration.
6. According to level of toughness the questions are prepared (viz., analyzing the problems, implementation of modern tools, formulating the problems etc).

7. The questions will be of three categories:
8. Some of the questions is direct and can be answered by all Students.
2. Some of the questions need analysis and use of content covered as per syllabus.
3. Remaining one third of the question is knowledge based. Certain amount of thinking, analysis and mathematical knowledge is required to resolve
8. The Duration of the test is 60 Minutes.
9. After the completion of the Exam the Faculty submits Scheme of Evaluation and key for the respective question paper..
10. The total internal evaluation is the sum of Internal Subjective Test, Objective Test and Assignments **(10+10+5=25)**.
11. Second Subjective Test Assessment is also done similarly.
12. The Marks are uploaded to the University and best of the two is considered. After conduction of assignments the test post activities are done:

1. All the results are placed in the Examination section website.
2. The progress reports are sent to their parents.
3. The slow learners are identified by counselors based on the Internal Marks and recommended for Tutorial / remedial classes.

**Evaluation:**

- Each course coordinator in consultation with Department Academic Committee prepares the question paper. Department Academic Committee verifies the quality of Question paper in all aspects and submits to the Department Internal Exam Section.

**Assignments:**

- Assignments are conducted periodically and evaluated by the respective faculty members.
- In order to bridge the gap in Curriculum, bright Students are given some assignments in the content beyond syllabus

**Effective process implementation**

- The Department Academic Committee will conduct the question paper review meeting to verify the quality of question papers and approves them for the conduction of Internal Exams.

**B Process to ensure questions from outcomes / learning level perspectives**

- Department Academic Committee ensures that each question is mapped with COs in the Question paper. Student who answered to particular question is taken into consideration and average of all Students' Marks is taken for CO – PO attainment.

**C. Evidence of COs Coverage in class test/Mid-term test**

The below sample paper represents model paper for the subjective test (Mid-Term Test).

**NAWAB SHAH ALAM KHAN COLLEGE OF ENGINEERING & TECHNOLOGY**
*NEW MALAKPET, HYDERABAD-500024*
III YEAR- II SEMESTER B.TECH MID-I EXAMINATIONS FEB 2020

**BRANCH: CSE/IT** **DATE: -02-2020**
**SUBJECT: COMPILER DESIGN** **TIME: 60 mins**

**I. Answer any two of the following questions.** **2×5=10**

| Q.NO | Question | Bloom's level | CO Level |
|---|---|---|---|
| 1. | Explain various phases of compiler with an example<br>Position:= initial + rate*60 | L2 | Co1 |
| 2 | Construct predictive parsing table for the following grammar<br>E→E+T/T<br>T→T*F/F<br>F→(E)/id<br>and check whether the string id*id*id is accepted or not. | L2 | Co2 |
| 3 | Construct SLR parsing for the following grammar<br>E→E+T/T<br>T→T*F/F<br>F→(E)/id<br>and check whether the string id+id*id is accepted or not | L2 | Co3 |
| 4 | a) Construct Optimize DFA for regular expression (a/b)*abb.<br>b) Explain briefly about lex tool with example | L6,L2 | C02 |

**D. Quality of assignment and its relevance to COs**

- Assignments questions prepared on the relevance of COs are given to the Students for assessing their knowledge formation about different topics which is structured and is mentioned in the course file.
- The Students have to write and submit the assignment within a week and each question is mapped with COs. So the Students will be able to understand
- Course Outcomes of particular subject. Assignments are conducted periodically and evaluated by the respective Faculty members.
- Assignments may be given in the form of Surprise tests, quiz, gathering information from video links, solving problems and home assignments. In order to
- bridge the gap in Curriculum, bright Students are given some assignments in the content beyond syllabus.

Assignments are used as a tool for practice


| S. No. | Question | Blooms Taxonomy Level | Program Outcomes | Course Outcome |
|---|---|---|---|---|
| | UNIT – I | | | |
| 1. | **Distinguish** between value parameters, reference parameters, parameter passing? | Knowledge | 1 | CO.1 |
| 2. | **Write** about Data objects and Structures, data abstraction? | Understand | 3 | CO.2 |
| 3. | **Write about** Stack? | Understand | 2 | CO.1, CO.2 |
| 4 | Explain about operations in single linked list | Understand | 2 | CO.1, CO.2 |
| 5 | What is Queue? Define the implementation with array and linked list? | Understand | 3 | CO.1, CO.2 |
| 6. | Write a program to display the factorial of a number using control structure | Understand | 1 | CO.1, |

**Fig 2.17 Sample Assignment Questions with CO Mappings**

**2.2.3 Quality of student projects** (25) Institute Marks : 25.00

**Initiatives**

Project work is done by the final year Students during their final semester as a part of their Program Curriculum. It carries 200 Marks & 9 credits. As per the University norms 60 Marks are awarded for Internal Evaluation and 140 Marks for External Viva Voce. (University Examination).

**PROJECTS IDENTIFICATION:**

- Students are provided with brief orientation on various fields to select the Project.
- Details of previous projects are displayed at notice board which ensures no repetition of project work and also encourages
- the Students to enhance the previous works. Provides the Faculty list with their specialization details along with the area of interest to guide the projects.
- The knowledge, skill set and interest of the Students to implement the project are considered to undertake the project work.
- The Student Projects are selected in line with Department Vision, Mission, and Program Outcomes mapping.
- Projects are identified to relevant context. The need for the project and the end users of the project are
- verified based on the current context. Allotment of a guide for each batch is done based on the common interest of the guide and student's interest.

**Implementation**

- The project domains, rules and regulations, instructions are defined to the Students by the Project Coordinator.
- A project coordinator is appointed by the Head of the Department who is responsible for Planning, Scheduling and Execution of all
- the activities related to the student project work. Project coordinators issue the project schedule to the Students and the guides.

- Project Review Committee is constituted with HOD, two senior Faculty members of the Department, and Project Coordinators. The Project Review committee is responsible for maintaining the Quality in the Students projects by reviewing the Students progress periodically, and considering the quality factors

Projects are offered in various specializations as per the faculty expertise areas (as mentioned below)

1. Data Mining
2. Network Security
3. Big Data
4. Cloud Computing
5. Computer Networks
6. Social Networking
7. Decision Support Systems
8. Web based Applications
9. Software Engineering
10. Software Reliability
11. Software Systems
12. Mobile App Development
13. Artificial Intelligence

**Impact Analysis**

- New innovative ideas are born for project work. Skills or abilities of Students improved.
- Knowledge on various aspects of project management was developed. Confidence level of the Students was boosted.
- Improved teamwork spirit.
- Implementation and deployment of the project for social benefits. Document preparation and presentation.
- More tendencies to showcase their project work in project exhibition were observed

**A. Identification of projects and allocation methodology to Faculty Members**

- Every Final year (VIII semester) student undertakes project
- The Students are divided into 14 to 15 batches based on their strength with each batch comprising of four Students,.
- Project Guides are appointed by Project Coordinator along with the Head of the Department based on their area of expertise. Project Guides are responsible to monitor and guide all the Project activities of the concerned batch.
- Students meet their respective project guide and will discuss about project areas, interests and will finalize the Project Title.
- Students with the guidance and approval from their respective project guide and project review committee submit project titles to project coordinator. Students are asked to submit soft and hardcopies of abstracts to the Project Coordinators.
- Every batch has to get guide’s acceptance letter before starting their project work and submit the same to project coordinator The Guides may be allotted one or two batches based on their research experience.
- The Knowledge, Methodology, Skill set and Interest of the Students to implement the project are considered to undertake the projects.
- The Students thereafter in consultation with Guide select a topic. The Students then perform literature survey, formulate the problem individually and then proceed further. Projects may be theoretical or experimental.

- A well planned Project Work Schedule of events is prepared by project coordinator which is communicated to all the Students and project guides.

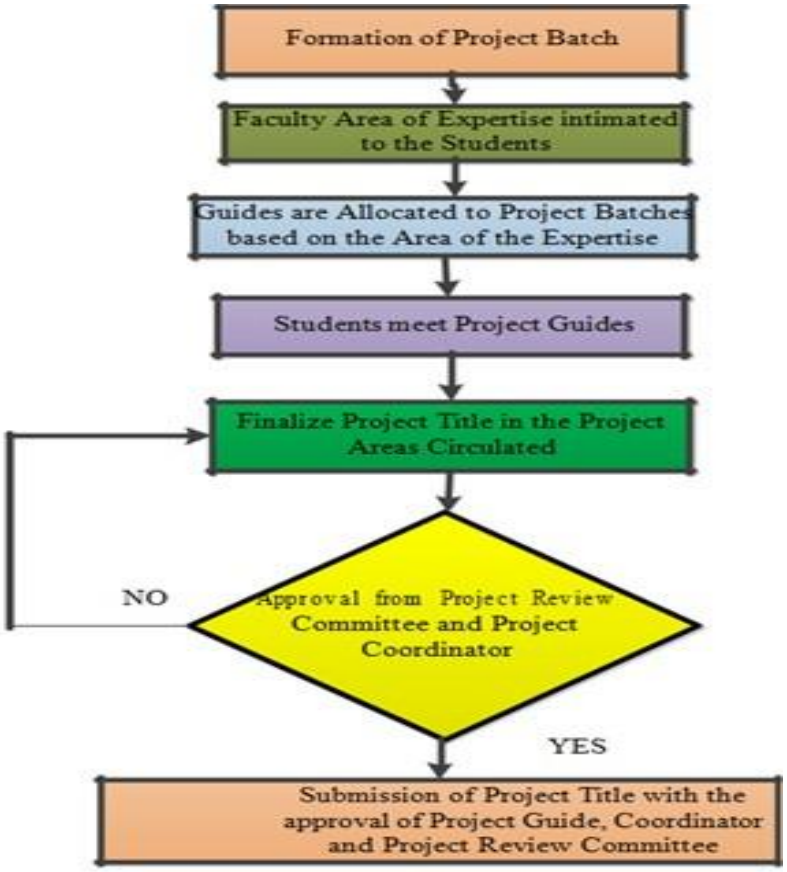



**Fig 2.19 Flow Diagram for Showing the Process of Student Project Batch Allocation**

**B. Types and relevance of the projects and their contribution towards attainment of POs and PSOs.**

In the Department of Computer Science and Engineering, Students choose their projects, which are broadly categorized as,

- **Industry projects:** Under this category the project is performed in an industry to fulfill their needs. Department also provides a guide to monitor their progress.
- **In-house projects:** Under this category project is performed by the group of Students in the institute under the super Vision of the guide.

Further, the Department provides flexibility for Students to select the project in any one of the following categories.

**Application Oriented:** In this category, projects are performed where the target is to achieve any real life application.

**Product Oriented:** In this category, design and application is performed from the scratch. In this category, each iteration of design, Algorithm, testing and process the product.

**Research Oriented:** In this category, extensive review of literature is done, which aims to learn new methods or procedures to validate results.

Following factors are considered (but not limited) to classify projects in above categories Environment, Safety, Standards and Cost.

**CAYm1Year (2020-2021)**

| Batch No. | Team members | Project Name | Guide | PO'S |
|---|---|---|---|---|
| 1 | **Md Aftab Alam - 17E05A0501**<br>Huda Khan - 17RT1A0503<br>Qamar Begum - 17RT1A0541<br>Syeda Kaunain Fatima - 17RT1A0554 | **C-NSAKCET** | Dr. Mohammed Sanaullah Qaseem | PO1,PO2,PO3,PO4,PO5,PO9,PO11,PO12 |
| 2 | **Mohammed Rizwan Khan - 17RT1A0523**<br>Mohammed Imran - 17RT1A0508<br>Mohammed Athar - 177W1A0537<br>Syed Khadeer Pasha - 17RT1A0549 | **MY COLLEGE APP 2.0** | Mr. Mohammed Rawoof | PO1,PO2,PO3,PO4,PO5,PO9,PO11,PO12 |
| 3 | **Mohsin S Hussain - 17RT1A0538**<br>Mohammed Saleh Saud - 17RT1A0524<br>Mohd Asfaar Uddin - 17RT1A0532 | **Fresher's Insider** | Ishrath nousheen | PO1,PO2,PO3,PO4,PO5,PO9,PO11,PO12 |
| 4 | Syed Zain Ul Abedin Shah Quadri 16RT1A0556<br>Mohammed Mujtaba Shoaib 16RT1A0525<br>Akram Shareef 16RT1A0503<br>Md Osama- 16RT1A0526.<br>Mohammed Abid- 16RT1A0510 | **Facial Recognition for Student Monitoring System.** | Mr. Mohammed Khaleel Ahmed | PO1,PO2,PO3,PO4,PO5,PO9,PO10PO11,PO12 |
| 5 | Mohammed Zeeshan Khan 17RT1A0528<br>Mohammed Hussain Afzaal 17RT1A0516<br>Md Waseem Akram 17RT1A0507<br>Shaik Aslam 17RT1A0547 | **Artificial Intelligence and COVID-19 Deep Learning Approaches for Diagnosis and Treatment** | Dr. Mohammed Sanaullah Qaseem | PO1,PO2,PO3,PO4,PO5,PO9,PO11,PO12 |

| | | | | |
|---|---|---|---|---|
| **6** | **Mohammed Ata Ur Rahman Shahzad 17RT1A0514**<br>Mohammed Furkhan Ahmed 17RT1A0559<br>Syed Zubair Ahmed 17RT1A0553 | **NSAKCET VIRTUAL LIBRARY 2.0** | Ms. Firdous Rehana | PO1,PO2,PO3,PO4,PO5,PO8,PO9,PO10PO11,PO12 |
| **7** | **Nasrin Banu 17RT1A0540**<br>Tayyaba Begum 17RT1A0555 | **Object Recognition using Block code** | Ms. Asma Mehdia | PO1,PO2,PO3,PO4,PO5,PO9,PO11,PO12 |
| **8** | Mohammed Ashfaq Ali - 17RT1A0533<br>Mohammed Arsalan Uddin - 17RT1A0531<br>Mohammed Anwar Shareef - 17RT1A0512<br>Sumaiya Kinza - 17RT1A0548 | **Density based smart traffic control using canny edge detection algorithm** | Ms Syeda Farhath Begum | PO1,PO2,PO3,PO4,PO5,PO8,PO9,PO10PO11,PO12 |
| **9** | Mohammed Aleem Uddin - 17RT1A0511<br>Saifan Khan - 17RT1A0543 | **A Detailed investigation on intrusion detection system using Machine Learning** | Mr. Abdul Muqeet | PO1,PO2,PO3,PO4,PO5,PO8,PO9,PO10PO11,PO12 |
| **10** | Mohd Faizan - 17RT1A0534<br>Mohammed Niyamath Khan - 18RT5A0501<br>Abdul Arbaaz - 17RT1A0501<br>Mohd Asjad - 17RT1A0558 | **ShopEra** | Mr. M.K.Iftequar Ali Khan | PO1,PO2,PO3,PO4,PO5,PO8,PO9,PO10PO11,PO12 |
| **11** | Mohammad Mazhar Ali - 158R1A05E5<br>Mohammed Wahid Ali - 16E01A0510<br>Moiz Khan - 15E01A0516 | **Face Detection Based Attendance Management System** | Ms Bushra Khatoon | PO1,PO2,PO3,PO4,PO5,PO8,PO9,PO10PO11,PO12 |
| **12** | Mohammed Abdul Qavi - 17RT1A0509<br>Mohammed Wasif - 17RT1A0527<br>Mohd Mansoor Sofi - 17RT1A0536<br>Mohammed Naveed Uddin - 17RT1A0521 | **Traffic Prediction for Intelligent Transportation System using Machine Learning** | Mr.Abdul Muqeeth | PO1,PO2,PO3,PO4,PO5,PO8,PO9,PO10PO11,PO12 |

| | | | | |
|---|---|---|---|---|
| **13** | Mohammed Muzzamil Hashmi-17RT1A0520<br>Mohammed Manzoor Ahmed Khan -17RT1A0518<br>Mohammed Shazal Azeem -17RT1A0537 | **Nice - Network Intrusion Detection and Countermeasure Selection in Virtual Network Systems** | Ms. Firdous Rehana | PO1,PO2,PO3,PO4,PO5,PO8,PO9,PO10PO11,PO12 |
| **14** | Sana Begum Mohd-17RT1A0544<br>Sana Hussain -17RT1A0545 | **Cryptocurrency price analysis using AI** | Ms Farha Nazneen | PO1,PO2,PO3,PO4,PO5,PO8,PO9,PO10PO11,PO12 |
| **15** | **Sara Fatima Faheem-17RT1A0546**<br>Madiha Manha-17RT1A0504<br>Qudsia Fatima Baqri-17RT1A052 | **Cyber Risk Analysis of Combined Data Attacks against Power System State Estimation** | Mr. Mohammed Rawoof | PO1,PO2,PO3,PO4,PO5,PO8,PO9,PO10PO11,PO12 |

| CO/PO | P O1 | PO 2 | PO3 | PO4 | PO 5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO 1 | PSO2 | PSO3 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CO1 | ✔ | ✔ | ✔ | ✔ | ✔ | - | - | - | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| CO2 | ✔ | ✔ | ✔ | ✔ | ✔ | - | ✔ | ✔ | ✔ | - | ✔ | ✔ | ✔ | ✔ | ✔ |
| CO3 | ✔ | ✔ | ✔ | ✔ | ✔ | - | - | - | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| CO4 | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | - | ✔ | ✔ | ✔ | ✔ | ✔ |

**Relevance of the projects and their contribution towards attainment of POs and PSOs.**

**Year (2019-2020)**

| Batch No. | Team members | Project Name | Guide | PO'S |
|---|---|---|---|---|
| **1** | **16RT1A0518 16RT1A0555 16D51A0529 15RT1A0554** | **CNN Model Design of Gesture Recognition Base On Tensor Flow Framework** | Mr. Mohammed Khaleel Ahmed | PO1,PO2,PO3,PO4,PO5,PO8,PO9,PO10PO11,PO12 |
| **2** | **16RT1A0540 16RT1A0541 16RT1A0557** | **Predicting Bitcoin Prices using Deep Learning** | Ms. Farhath Begum | PO1,PO2,PO3,PO4,PO5,PO8,PO9,PO10PO11,PO12 |
| **3** | **16RT1A0511 16RT1A0544 16RT1A0551 16RT1A0517** | **Enhanced Vulnerable Pedestrian Detection UsingDeep Learning** | Mr. Mohammed Rawoof | PO1,PO2,PO3,PO4,PO5,PO8,PO9,PO10PO11,PO12 |
| **4** | **16RT1A0529 16RT1A0534 16RT1A0545** | **Deep Learning For Smartphone Based Malaria Parasite Detection In Thick** | Mr. M. K. Iftekhar Ali Khan | PO1,PO2,PO3,PO4,PO5,PO8,PO9,PO10PO11,PO12 |
| **5** | **16RT1A0521 16RT1A0523 16RT1A0554** | **Student And Staff Management** | Dr. Mohammed Sanaullah Qaseem | PO1,PO2,PO3,PO4,PO5,PO8,PO9,PO10PO11,PO12 |
| **6** | **16RT1A0501 16RT1A0552 16RT1A0550** | **School Motnitoring System** | Mr. Mohammed Khaleel Ahmed | PO1,PO2,PO3,PO4,PO5,PO8,PO9,PO10PO11,PO12 |
| **7** | **16RT1A0514 16RT1A0519 16RT1A0519** | **Phishing Website Detection Using Deep Learning** | Mr. Abdul Muqeeth | PO1,PO2,PO3,PO4,PO5,PO8,PO9,PO10PO11,PO12 |
| **8** | **16E01A0513 16E01A0516 16E01A0524** | **Driverless Car Simulation** | Ms. Munawar Khatoon | PO1,PO2,PO3,PO4,PO5,PO8,PO9,PO10PO11,PO12 |

| | | | | |
|---|---|---|---|---|
| **9** | **16RT1A0505 16RT1A0538 16RT1A0517 16E01A0521** | **Machine Learning And Deep Learning Methods For Cybersecurity** | Ms. Farhath Begum | PO1,PO2,PO3,PO4,PO5,PO8,PO9,PO10PO11,PO12 |
| **10** | **15E01A0517 15E01A0523 16E01A0507** | **Virtual Mouse Implementation Using Open CV** | Ms. Waseema Masood | PO1,PO2,PO3,PO4,PO5,PO8,PO9,PO10PO11,PO12 |
| **11** | **16RT1A0507 16RT1A0522 16RT1A0524** | **Machine Learning In Alzheimers Disease** | Ms. Firdous Rehana | PO1,PO2,PO3,PO4,PO5,PO8,PO9,PO10PO11,PO12 |
| **12** | **15E01A0512 15E01A0522 16E01A0532 16E01A0523** | **Pharamacy Management System** | Ms. Ishrath Nousheen | PO1,PO2,PO3,PO4,PO5,PO8,PO9,PO10PO11,PO12 |
| **13** | **16E01A0502 16E01A0529 16E01A0503** | **College Management System** | Dr. Mohammed Sanaullah Qaseem | PO1,PO2,PO3,PO4,PO5,PO8,PO9,PO10PO11,PO12 |
| **14** | **16E01A509 16E01A0514 15H21A0518** | **Face Detection Based Attendance System** | Ms. Waseema Masood | PO1,PO2,PO3,PO4,PO5,PO8,PO9,PO10PO11,PO12 |

**Relevance of the projects and their contribution towards attainment of POs and PSOs.**

| CO/PO | P O1 | PO 2 | PO3 | PO4 | PO 5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO 1 | PSO2 | PSO3 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CO1 | 3 | 3 | 3 | 3 | 3 | - | - | - | 3 | 1 | 2 | 1 | 3 | 2 | 2 |
| CO2 | 3 | 3 | 3 | 3 | 3 | - | 3 | 2 | 3 | 2 | 2 | 2 | 1 | 2 | 2 |
| CO3 | 3 | 3 | 3 | 3 | 3 | - | - | - | 3 | 2 | 2 | 3 | 1 | 2 | 2 |
| CO4 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 2 | 3 | 1 | 2 | 2 | 3 | 3 | 3 |

**C. Process for monitoring and evaluation**

Project students should meet their respective guide weekly once and asked to explain their progress they have done in their project in that week.

1. They should submit project progress report weekly once and to get approved by the respective guide.
2. The project guides will evaluate the report submitted by the students and help them to go with project work.
3. Project guide will each assess each student in team and make them work in right way.

**Project Review Committee**

| Faculty Name | Designation |
|---|---|
| 1. Dr.Mohammad Sanaullah Qaseem | Prof & H.O.D CSE, Vice Principal (Academics) |
| 2. Dr. Riyazoddin Siddiqui | Professor CSE |
| 3. Mr.Mohamed Khaleel Ahmed | Associate Professor CSE |

ReviewCommittee will finalize the project titles.

| Project Review –I | | |
|---|---|---|
| **Review –I** | **Zeroth review** | Based on the presentation and the discussion made during the review, the title of the project is tentatively fixed. Subsequently the guides of the projects were allocated. |
| | **First review** | Identification Problem based on the literature, similarly the industrial problems also identified based on theproblems faced by industries. |
| | **Second review** | Methodologies were identified to solve the problem and the responsibility of each individual team member toaccomplish the project is fixed. |
| | **Phase I final** | The detailed plan and methodology of the project isfinalized. . |

| Project Review –II | | |
|---|---|---|
| **Review –II** | **First review** | Ensure the initialization of project as per the plan in the Phase and status of the projects were reviewed. |
| | **Second review** | Evaluate the adaptation of the proposed methodology to solvethe problem and the responsibility of each individual team member reviewed. |
| | **Third review** | Output of the work is presented by consolidating thework done by the team members individually as well as in groups. |
| | **Final review** | Students should submit their project report and demonstrate of the outcome of the project. |

**D. Process to assess individual and team performance.**

- Project Students should meet their respective guide daily once and are asked to explain their progress they have done in their project. In case of Industry projects, project Students should meet their respective guide weekly once and are asked to explain theirprogress they have done in their project.
- The Project Guide monitors the progress done by the student in that week and
- help them to go with project work. Project guide will assess each student in team and make them work in right way.
- A project coordinator is appointed by the Head of the Department who is responsible for planning, scheduling and execution of all
- the activities related to the student project work Project Review Committee members are responsible for making the regulations for complete evaluation process:

E. Quality of completed projects/working prototypes

1. Final project demo for the working prototype and the report are evaluated by a team of their respective guide, a professor cadre faculty, an Associate professor and an Assistant professor.
2. The projects are evaluated and are awarded internal assessment marks for maximum and are graded according to the project contribution towards attainment of PO's and PSO's.

Best Project Evaluation scheme

- Innovations recognize the need for lifelong learning,
- Contemporary issues, organization of the report,
- Listening to and answering questions,
- Publications and internal and external marks,
- Project exhibition results.
-

F. Evidences of Papers Published/Awards received by projects.

Student will present their paper related to project in conference/journal etc.in other colleges.

Few students have received toppers certificates & best project award.

**2.2.4** **Initiative related to industry interaction** (15)

Institute Marks : 15.00

**Initiatives related to industry interaction**

- Industrial visits are organized to the Students once in a year based on the courses they are studying to fill the gap between institute and industry.
- The Department has signed MoUs with industries for internships, conduction of workshops, projects, etc.,
- Resource persons from industry are invited for talks, seminars to bridge the gap.

| S. No | Industrial Visit | Date – Month Year(2019-2020) |
|---|---|---|
| 1 | INDUSTRIAL VISIT TO T-HUB IIT | 17/09/2019 |
| 2 | INDUSTRIAL VISIT TO 'INFOSYS' | 31/08/19 |
| 3 | INDUSTRIAL VISIT TO ENAAYAH SOFTWARE DEVELOPMENT & SERVICES | 08/08/2019 |
| 4 | INDUSTRIAL VISIT TO PANTECH SOLUTION PVT LIMITED | 24/08/2019 |
| 5 | INDUSTRIAL VISIT TO RUCHI WEB SOLUTION | 23/07/2019 |
| **Sl. No** | **Industrial Visit** | **Date – Month Year(2018-2019)** |
| 6 | INDUSTRIAL VISIT TO AMTECH SOFTWEAR SOLUTIONS | 22/03/2019 |
| 7 | CISCO | 01/02/2019 |

**MOU's with Industries**

MOU's with industries to emphasize on

a. Internship
b. Project Workshop for Students
c. Industry Visits
d. Students specific Training

**Table 2.9 List of MOUs**

| S. No | Industrial Visit | MOU |
|---|---|---|
| 1 | INDUSTRIAL VISIT TO T-HUB IIT | 30th October 2019 |
| 2 | INDUSTRIAL VISIT TO 'INFOSYS' | 26th Aug 2019 |
| 3 | INDUSTRIAL VISIT TO ENAAYAH SOFTWEAR DEVELOPMENT & SERVICES | 19th july 2019 |
| 4 | INDUSTRIAL VISIT TO PANTECH SOLUTION PVT LIMITED | 4th Aug 2018 |
| 5 | INDUSTRIAL VISIT TO RUCHI WEB SOLUTION | 27th dec 2018 |
| 6 | INDUSTRIAL VISIT TO AMTECH SOFTWEAR SOLUTIONS | 22 March 2019 |

**A. Industry supported laboratories**

- To improve the quality of technical education adequately to meet the needs of the Industry, society and economy. Technical education system should operate at optimum efficiency and should produce good quality engineers' who will deliver quality product to employers.
- To optimize the deployment of physical and human resources of Institutions and Industries in the pursuit of development of technical manpower & to enlist participation of industry in technical education programs, with a view to have better interaction between Industries and Institute.

·The Objectives are :

- To bridge the gap between Industry and Institute.
- Share The Experience and Expertise Between Institutions and Industry For Mutual Benefit.
- To Organize Workshops, Conferences and Symposia with joint participation of the faculty and the Industries.
- To encourage engineers from industry to visit engineering institution to deliver Lectures.
- Develop good work culture in students.
- To foster Research Work and develop Laboratories, Discussions and Delivering Lectures on Industrial Practices, Trends and Experiences.
- Collaborative Programs with Industry.
- Encouraging engineers from industry to visit Engineering Institution to deliver
- Guest Lectures & Workshops. Placement.

- Student Counseling and Guidance. Student Career
- Development Alumni Interaction.
- Interaction through Entrepreneurship Development Cell.
- Joint Research & Development activities and field studies by faculty and people from industries.
    1. ENAAYAH SOFTWARE DEVELOPMENT & SERVICES
    2. AMTECH SOFTWARE SOLUTIONS
    3. PANTECH SOLUTIONS PVT LIMITED

We have collaborated with the industries for its support in establishing the laboratories

b. **Industry involvement in the program design and partial delivery of any regular course for Students.**

- Some of the projects undertaken by VIII Semester project do seek guidance from Industry. In order to design various inputs on course delivery and beyond syllabus contents the Institution consults the industry. Guest lectures on important topics of regular Curriculum are delivered from time to time.
- Industry visits on a regular basis are organized once in a year and all Students got an opportunity to interact with the industry and get exposure to real life practices.
- Many invited talks and seminars from industry resource persons are arranged and Department invites the participant from various
- Department and also participants from other colleges. The Department of Computer Science and Engineering has signed Memorandum of Understanding (MoU) in order to provide the platform for interaction between the student and industry.

**C. Impact analysis of industry institute interaction and actions taken thereof**

Through the help of these MoUs Students are flourished with global exposure and knowledge regarding industry activities and also it

helped them to achieve their goals in early stages itself. Following are the industry interaction activities.

Table 2.2.4.2: Questionnaire for students on Impact Analysis

| S.No | Question | Excellent (4) | Good (3) | Fair (2) | Poor (1) | Blank (0) |
|---|---|---|---|---|---|---|
| 1. | Relevance of the industrial training/ visits (or input received) w.r.t your curriculum | | | | | |
| 2. | Whether any specific official was assigned for you during the training (or visits) | | | | | |
| 3. | Access to different facilities of interest to you - for observation, gather data and get your clarifications cleared | | | | | |
| 4. | Whether any relevant technical literature is obtained from the Industry | | | | | |
| 5. | Was the opportunity given for you to work on real time problem or practical problem or on the day to day activities of the organization? | | | | | |
| 6. | Was there any formal class room training organized as part of the training where in the functioning of the organization, technical basics of their operation etc. were arranged? | | | | | |
| 7. | Your recommendation for considering this organization for training (or industry institute interaction) in future | | | | | |

**2.2.5 Initiative related to industry internship/summer training** (15) Institute Marks : 15.00

**Initiatives related to industry internship / summer training**

The Students are encouraged to take up internship program during their semester break. Faculty members give their guidelines, suggestions and scope and contact details of an internship. They also help the Students by interacting with the industry experts, provide the Students recommendation letters and other necessary supports. The alumni coordinator constantly interacts with alumni those who are working in the industries and request them to provide necessary guidelines and supports for their junior's internship.

A. **Industry training / tours for Students**

Industry Visits:

The faculty of the Department constantly tries to interact with industries for industrial visit.

| S. No | NAME OF THE ORGANIZATION | DATE OF VISIT |
|---|---|---|
| 1 | INDUSTRIAL VISIT TO T-HUB IIT | 17/09/2019 |
| 2 | INDUSTRIAL VISIT TO 'INFOSYS' | 31/08/19 |
| 3 | INDUSTRIAL VISIT TO ENAAYAH SOFTWEAR DEVELOPMENT & SERVICES | 08/08/2019 |
| 4 | INDUSTRIAL VISIT TO PANTECH SOLUTION PVT LIMITED | 24/08/2019 |
| 5 | INDUSTRIAL VISIT TO RUCHI WEB SOLUTION | 23/07/2019 |
| 6 | INDUSTRIAL VISIT TO AMTECH SOFTWEAR SOLUTIONS | 22/03/2019 |

B. **Industrial / internship / summer training of more than two weeks and post training Assessment**

The Students are encouraged to take up internship program. Faculty members give their guidelines, suggestions and scope and contact details of an internship. They also help the Students by interacting with the industrial experts, provide the Students recommendation letters and other necessary supports.

A representative of the participation by student is given below. Complete detail student wise is available with the institution. The duration of the training is 1-2 months depending on the requirement of the industry.

| Sl. No | Interaction Type | Industry | Date/ Duration | Relevance to POs, PSOs |
|---|---|---|---|---|
| 1 | Programming Essentials in C | CISCO | 01/02/2019-30/09/2019 | PO1,PO2,PO3,PO4,PO11,PO12 PSO1,PSO2,PSO3 |

c. **Impact analysis of Industrial Training**

1. Gain Industry Work Experience
2. Have an Edge in the Job Market
3. Transition into a Job
4. Decide if this is the Right Career for You
5. Networking Opportunities
6. Apply Classroom Knowledge
7. Gain Confidence

**Table : Questionnaire for students on Impact Analysis**

| Question Number | Question | To a very great extent (4) | To a great extent (3) | Number To a moderate extent (2 | To some extent (1) | Not at all(0) |
|---|---|---|---|---|---|---|
| 1. | Did the industry team give the required material to help you design solutions? | 4 | | 2 | | |
| 2. | Did the industry give you necessary hardware and software tools? | | 3 | | | |
| 3. | Were you able to apply the knowledge gained through curriculum and industry to complete your training? | | 3 | | | |
| 4. | Were you able to design solutions to the problems faced? | | | 2 | | |
| 5. | Were you able to achieve results as expected? | 4 | | | | |

d. **Student Feedback initiative**

Students submit their feedback regarding their training/summer internship on

- the basis of the following points: Experience of working in the industry.
- Independently handling the assignments.
- Hands on training on sophisticated equipments / instruments.
- Adaptability of the working environment.

Effectiveness of this process is analyzed through feedback from the Students. This feedback analysis is considered for improving interaction, training opportunities in new technological areas in industries. Effectiveness of this process is analyzed through feedback from the Students. This feedback analysis is considered for improving interaction, training opportunities in new technological areas in industries.

## 3. COURSE OUTCOMES AND PROGRAM OUTCOMES (120)

**Total Marks 120.00**

**Define the Program specific outcomes**

### 3.1 Establish the correlation between the courses and the Program Outcomes (POs) and Program Specific Outcomes (PSOs) (20)

Total Marks 20.00

| | |
|---|---|
| **PSO1** | Develop a sound understanding of the concepts and the operational aspects of computer systems. |
| **PSO2** | Apply ethical software development practices in providing real time solutions using latest development tools. |
| **PSO3** | Demonstrate their adaptability to the ever evolving societal needs in multidisciplinary fields. |

#### 3.1.1 Course Outcomes (COs)(SAR should include course outcomes of one course from each semester of study, however, should be prepared for all courses and made available as evidence, if asked) (5)

Institute Marks : 5.00

| **Course Name : DS** | **C2 12** | **Course Year :** | **2020-21** |
|---|---|---|---|
| **Items** | **2020-21** | | |
| C2 12.1 | Able to select fitting data structures to speak to data items in real time issues | | |
| C2 12.2 | Ability to analyze the time and space complexities of algorithms. | | |
| C2 12.3 | Ability to design programs using a variety of data structures such as stacks, queues, hash tables, binary trees, search trees, heaps, graphs, and B-trees. | | |
| C2 12.4 | Able to analyze and implement various kinds of searching and sorting techniques. | | |

| **Course Name : DBMS** | **C2 22** | **Course Year :** | **2020-21** |
|---|---|---|---|
| **Items** | **2020-21** | | |
| C2 22.1 | Identify the basic elements of a relational database management system and the data models for relevant problems. | | |
| C2 22.2 | Write SQL Queries by designing entity relationship model and convert entity relationship diagrams into SQL queries on the data. | | |
| C2 22.3 | Analyze various functional dependencies and apply normalization for designing a robust data base in the development of application software. | | |
| C2 22.4 | Compare various indexing and hashing techniques | | |

| **Course Name : SE** | **C3 12** | **Course Year :** | **2020-21** |
|---|---|---|---|
| **Items** | **2020-21** | | |
| C3 12.1 | Students will be able apply the basic concepts of software engineering | | |
| C3 12.2 | Students will be able to identify the significance of process models. | | |
| C3 12.3 | Students will be able to Analyze the principles of requirement Engineering | | |
| C3 12.4 | Students will be able to Create architectural design for a given project | | |

| Course Name : CD | C3 21 | Course Year : | 2020-21 |
|---|---|---|---|

| Items | 2020-21 |
|---|---|
| C3 21.1 | To explain different phases of compiler, language representation using grammar and expression |
| C3 21.2 | To analyze different parsing trees and techniques |
| C3 21.3 | To design and generate syntax directed translations and intermediate code |
| C3 21.4 | To apply optimization techniques to intermediate and machine code. |

| Course Name : SPPM | C4 14 | Course Year : | 2020-21 |
|---|---|---|---|

| Items | 2020-21 |
|---|---|
| C4 14.1 | Able to Apply software framework, process, and models in development. |
| C4 14.2 | Able to Implements the Life cycle process and models in production stages and improve software by economics and management. |
| C4 14.3 | Able to Planning and scheduling the process with cost estimation and Analyze work flow in process at major milestones by periodic assessment |
| C4 14.4 | Able to Use of projects in organizations in line of business with process automations and project control with quality metrics. |

| Course Name : DS | C4 21 | Course Year : | 2020-21 |
|---|---|---|---|

| Items | 2020-21 |
|---|---|
| C4 21.1 | To learn the concept of ad-hoc and sensor networks, their applications and typical node and network architectures. |
| C4 21.2 | Describe the MAC protocol issues of adhoc networks and routing protocols for ad hoc wireless networks with respect to TCP design issues. |
| C4 21.3 | Able to demonstrate the concepts of network Architecture and MAC layer in WSN protocols. |
| C4 21.4 | Discuss the imperative languages in adhoc networks using simulation tools. |

**3.1.2** **CO-PO matrices of courses selected in 3.1.1(Six matrices to be mentioned; one per semester from 3rd to 8th semester)** (5)
Marks : 5.00

Institute

**1 . course name : C212**

| Course | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C212.1 | 2 | 2 | 2 | - | - | 3 | - | - | - | 2 | - | 3 |
| C212.2 | 3 | 3 | 3 | - | - | 3 | - | - | - | 3 | - | 3 |
| C212.3 | 3 | 3 | 3 | - | - | 2 | - | - | - | 3 | - | 2 |
| C212.4 | 2 | 2 | - | - | - | 2 | - | - | - | 3 | - | - |
| **Average** | **2.29** | **2.29** | **2.2** | | | **2.25** | | | | **2.25** | | **2.25** |

. course name : C222

| Course | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C222.1 | 2 | 2 | 2 | - | - | 3 | - | - | - | 2 | - | 3 |
| C222.2 | 3 | 3 | 3 | - | - | 3 | - | - | - | 3 | - | 3 |
| C222.3 | 3 | 3 | 3 | - | - | 2 | - | - | - | 3 | - | 2 |
| C222.4 | 1 | 1 | 1 | - | - | 1 | - | - | - | 1 | - | 1 |
| **Average** | **2.29** | **2.29** | **2.2** | | | **2.25** | | | | **2.25** | | **2.25** |

**. course name : C312**

| Course | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C312.1 | - | - | - | - | - | - | - | - | - | - | - | 3 |
| C312.2 | 2 | 2 | 1 | 2 | - | - | - | - | - | - | 2 | 2 |
| C312.3 | 2 | 2 | - | - | 2 | 1 | - | - | 1 | - | 2 | 2 |
| C312.4 | - | - | 2 | - | 1 | 2 | - | 2 | - | - | 1 | 2 |
| **Average** | **2** | **2** | **1.5** | **2** | **1.5** | **1.5** | | **2** | **1** | | **1.67** | **2.25** |

. course name : C321

| Course | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C321.1 | 3 | 3 | 2 | 3 | 1 | - | - | - | 2 | - | - | 3 |
| C321.2 | 3 | 3 | 3 | - | 2 | - | - | - | 1 | - | - | 2 |
| C321.3 | 3 | 3 | 2 | - | 3 | - | 1 | - | - | - | - | 3 |
| C321.4 | 3 | 3 | 3 | 2 | 3 | - | 2 | - | 2 | - | - | 3 |
| **Average** | **3** | **3** | **2.5** | **2.5** | **2.25** | | **1.5** | | **1.67** | | | **2.75** |

**2 . course name : C414**

| Course | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C414.1 | 3 | 3 | 3 | 3 | 2 | - | - | - | 3 | - | 2 | 3 |
| C414.2 | 3 | 3 | 3 | 3 | 2 | - | - | - | 3 | - | 2 | 2 |
| C414.3 | 3 | 3 | 3 | 3 | 2 | - | - | - | - | - | - | - |
| C414.4 | 3 | 3 | 3 | 3 | 2 | - | - | - | - | - | - | - |
| **Average** | **3.00** | **3.00** | **3.00** | **3.00** | **2.00** | **0.00** | **0.00** | **0.00** | **3.00** | **0.00** | **2.00** | **2.50** |

**3 . course name : C421**

| Course | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C421.1 | 3 | 3 | - | - | 1 | 1 | - | - | - | - | 1 | 1 |
| C421.2 | 2 | 2 | 2 | - | 2 | 1 | - | - | 1 | - | 1 | 1 |
| C421.3 | 3 | 3 | 3 | - | 3 | 1 | - | - | 1 | - | 1 | 2 |
| C421.4 | 3 | 3 | 1 | - | 1 | 2 | 1 | 1 | 3 | - | 3 | 3 |
| **Average** | **2.75** | **2.75** | **2** | | **1.75** | **1.25** | **1** | **1** | **1.67** | | **1.5** | **1.75** |

**.Course Name : C212**

| Course | PSO1 | PSO2 | PSO3 |
|---|---|---|---|
| C212.1 | - | 2 | - |
| C212.2 | 2 | - | - |
| C212.3 | 3 | - | - |
| C212.4 | - | 2 | - |
| **Average** | **1.75** | **2** | |

. Course Name : C222

| Course | PSO1 | PSO2 | PSO3 |
|---|---|---|---|
| C222.1 | - | 2 | - |
| C222.2 | 2 | - | - |
| C222.3 | 3 | - | - |
| C222.4 | - | 2 | - |
| **Average** | **1.75** | **2** | |

**. Course Name : C312**

| Course | PSO1 | PSO2 | PSO3 |
|---|---|---|---|
| C312.1 | 2 | 2 | 1 |
| C312.2 | 1 | 3 | 1 |
| C312.3 | 1 | 2 | 2 |
| C312.4 | 2 | 2 | 2 |
| **Average** | **1.5** | **2.25** | **1.5** |

. Course Name : C321

| Course | PSO1 | PSO2 | PSO3 |
|---|---|---|---|
| C321.1 | 3 | - | - |
| C321.2 | 3 | 2 | - |
| C321.3 | - | 3 | 3 |
| C321.4 | - | 3 | 1 |

| | | | |
|---|---|---|---|
| **Average** | **3** | **2.67** | **2** |

**. Course Name : C414**

| Course | PSO1 | PSO2 | PSO3 |
|---|---|---|---|
| C414.1 | 1 | 3 | - |
| C414.2 | 2 | - | 2 |
| C414.3 | 1 | - | - |
| C414.4 | - | 3 | - |
| **Average** | **1.30** | **3.00** | **2.00** |

. **Course Name : C421**

| Course | PSO1 | PSO2 | PSO3 |
|---|---|---|---|
| C421.1 | - | - | - |
| C421.2 | - | 2 | - |
| C421.3 | - | 2 | - |
| C421.4 | - | - | - |
| **Average** | | **2** | |

**3.1.3** **A Program level Course-PO matrix of all courses INCLUDING first year courses** (10) Institute
Marks : 10.00

| Subject Code | Course code | SUBJECT | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BS102MT | C111 | Mathematics - I | 1.45 | 2.00 | 1.00 | 1.50 | 1.33 | 1.75 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 1.50 |
| BS105CH | C112 | Chemistry | 2.00 | 1.50 | 2.33 | 1.00 | 2.00 | 2.50 | 2.25 | 1.00 | 0.00 | 0.00 | 1.00 | 1.33 |
| ES107CS | C113 | Programming for problem Solving | 2.50 | 2.25 | 2.75 | 1.00 | 1.50 | 1.00 | 1.50 | 0.00 | 1.00 | 1.50 | 1.50 | 1.33 |
| BS153CH | C114 | Chemistry Lab | 1.00 | 1.00 | 0.75 | 0.50 | 0.75 | 0.25 | 0.50 | 0.00 | 1.00 | 0.00 | 0.00 | 1.00 |
| ES155CS | C115 | Programming for problem Solving Lab | 2.50 | 2.00 | 1.50 | 2.00 | 1.00 | 1.00 | 2.50 | 0.00 | 2.00 | 1.50 | 1.00 | 2.50 |
| ES157ME | C116 | Workshop / Manufacturing Process | 1.40 | 2.75 | 1.75 | 2.00 | 1.25 | 1.25 | 1.00 | 0.00 | 2.75 | 0.00 | 0.00 | 1.20 |
| HS101EG | C121 | English | 1.25 | 0.50 | 1.00 | 1.00 | 1.00 | 1.50 | 1.25 | 1.67 | 1.25 | 2.25 | 1.50 | 1.75 |
| BS103MT | C122 | Mathematics - II | 1.25 | 2.50 | 2.00 | 1.00 | 1.67 | 1.00 | 1.00 | 1.00 | 1.00 | 1.67 | 1.50 | 1.75 |
| BS104PH | C123 | Physics | 2.00 | 1.00 | 0.00 | 1.50 | 0.00 | 1.00 | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 1.50 |
| ES106EE | C124 | Basic Electrical Engineering | 1.75 | 1.75 | 1.25 | 1.75 | 1.75 | 1.50 | 1.50 | 0.00 | 1.75 | 1.00 | 1.33 | 2.50 |
| HS151EG | C125 | English Lab | 0.50 | 0.75 | 0.50 | 0.50 | 1.25 | 1.25 | 0.75 | 1.25 | 1.50 | 2.75 | 0.75 | 2.00 |
| BS152PH | C126 | Physics Lab | 1.33 | 1.50 | 1.50 | 1.00 | 1.50 | 1.00 | 2.00 | 1.50 | 1.50 | 1.00 | 1.00 | 1.00 |
| ES154EE | C127 | Basic Electrical Engineering Lab | **1.75** | **1.75** | **1.25** | **1.75** | **1.75** | **1.50** | **1.50** | **0.00** | **1.75** | **1.00** | **1.33** | **2.50** |
| ES156CE | C128 | Engineering Graphics & Design | 2.00 | 1.75 | 2.00 | 1.50 | 2.00 | 1.50 | 1.00 | 0.00 | 1.00 | 1.50 | 1.75 | 1.75 |
| CS301ES | C211 | Analog and Digital Electronics | 2.00 | 2.50 | 1.50 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.00 | 0.00 | 0.00 | 0.00 |
| CS302PC | C212 | Data Structures | 3.00 | 2.33 | 2.00 | 0.00 | 0.00 | 2.25 | 0.00 | 0.00 | 0.00 | 2.25 | 0.00 | 0.00 |
| MA303BS | C213 | Computer Oriented Statistical Methods | 3.00 | 2.00 | 1.50 | 1.00 | 1.00 | 2.00 | 2.00 | 0.00 | 0.00 | 0.00 | 1.33 | 2.00 |
| CS304PC | C214 | Computer Organization and Architecture | 3.00 | 2.00 | 1.50 | 1.00 | 1.00 | 2.00 | 2.00 | 0.00 | 0.00 | 0.00 | 1.33 | 2.00 |
| CS305PC | C215 | Object Oriented Programming Using C++ | 3.00 | 2.33 | 2.00 | 0.00 | 0.00 | 2.25 | 0.00 | 0.00 | 0.00 | 2.25 | 0.00 | 0.00 |
| CS306ES | C216 | Analog and Digital Electronics Lab | 2.00 | 2.50 | 1.50 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.00 | 0.00 | 0.00 | 0.00 |
| CS307PC | C217 | Data Structures Lab | 2.50 | 2.00 | 1.50 | 2.00 | 0.00 | 0.00 | 2.50 | 2.00 | 2.00 | 1.50 | 1.00 | 2.50 |
| CS308PC | C218 | IT workshop | 3.00 | 3.00 | 1.00 | 0.00 | 3.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3.00 |
| CS309PC | C219 | C++ programming Lab | 2.50 | 2.00 | 1.50 | 2.00 | 0.00 | 0.00 | 2.50 | 2.00 | 2.00 | 1.50 | 1.00 | 2.50 |
| CS401C | C221 | Discrete Mathematics | 2.25 | 2.00 | 1.00 | 2.00 | 0.00 | 0.00 | 2.50 | 2.00 | 2.00 | 1.50 | 1.00 | 1.75 |
| SM402MS | C222 | Business Economics & Financial Analysis | 3.00 | 2.00 | 2.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.00 | 2.50 | 2.25 | 2.00 | 2.00 |
| CS403PC | C223 | Operating System | 3.00 | 2.00 | 2.25 | 3.00 | 3.00 | 2.00 | 2.00 | 0.00 | 0.00 | 0.00 | 2.00 | 2.00 |
| CS404PC | C224 | Database Management System | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 0.00 | 0.00 | 2.00 | 2.00 | 0.00 | 2.00 | 2.25 |
| CS405PC | C225 | Java Programming | 2.50 | 2.00 | 2.00 | 2.00 | 0.00 | 0.00 | 2.50 | 2.00 | 2.00 | 1.50 | 1.00 | 2.50 |
| CS406PC | C226 | Operating System Lab | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 0.00 | 0.00 | 2.00 | 2.00 | 0.00 | 2.00 | 2.25 |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CS407PC | C227 | Database Management System Lab | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 0.00 | 0.00 | 2.00 | 2.00 | 0.00 | 2.00 | 2.25 |
| CS408PC | C228 | Java Programming Lab | 2.25 | 2.00 | 1.00 | 2.00 | 0.00 | 0.00 | 2.50 | 2.00 | 2.00 | 1.50 | 1.00 | 1.75 |
| CS501PC | C311 | Design and Analysis of Algorithms | 1.71 | 2.31 | 2.40 | 1.67 | 2.09 | 0.00 | 1.89 | 0.00 | 1.45 | 0.00 | 0.00 | 1.56 |
| CS502PC | C312 | Data Communication and Computer Networks | 1.80 | 1.08 | 2.43 | 1.32 | 1.78 | 0.00 | 2.00 | 2.76 | 1.20 | 0.00 | 1.30 | 18.00 |
| CS503PC | C313 | Software Engineering | 2.15 | 1.70 | 1.67 | 1.67 | 1.90 | 0.00 | 0.00 | 0.00 | 0.00 | 1.70 | 1.00 | 1.30 |
| SM504MS | C314 | Fundamentals of Management | 2.31 | 2.00 | 1.78 | 1.50 | 1.45 | 0.00 | 1.00 | 0.00 | 2.50 | 1.50 | 2.00 | 2.50 |
| CS505PC | C315 | Design and Analysis of Algorithms Lab | 2.00 | 1.64 | 1.89 | 1.09 | 1.70 | 0.00 | 2.50 | 0.00 | 1.90 | 1.60 | 1.67 | 1.50 |
| CS506PC | C316 | Computer Networks Lab | 2.43 | 2.10 | 1.50 | 1.80 | 2.50 | 0.00 | 1.01 | 0.00 | 1.67 | 0.00 | 1.23 | 1.10 |
| CS507PC | C317 | Software Engineering Lab | 1.78 | 1.57 | 2.54 | 1.30 | 2.42 | 0.00 | 1.00 | 3.00 | 1.33 | 0.00 | 1.08 | 1.67 |
| CS601PC | C321 | Compiler Design | 1.75 | 3.00 | 2.50 | 2.50 | 2.25 | 0.00 | 1.50 | 0.00 | 1.67 | 0.00 | 0.00 | 1.75 |
| CS602 PC | C322 | Web Technologies | 3.00 | 1.75 | 3.00 | 1.00 | 2.75 | 0.00 | 1.00 | 3.00 | 1.33 | 0.00 | 1.00 | 1.75 |
| CS603PC | C323 | Cryptography And Network Security | 3.00 | 2.00 | 1.67 | 1.67 | 3.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.00 | 1.00 | 1.00 |
| CN62OE | C324 | Environmental Impact Assessment | 2.00 | 2.00 | 2.00 | 1.00 | 1.50 | 0.00 | 1.00 | 0.00 | 3.00 | 1.50 | 2.00 | 2.00 |
| CS612PE | C325 | Design Patterns | 2.00 | 2.00 | 3.00 | 2.00 | 2.50 | 0.00 | 2.50 | 0.00 | 3.00 | 2.00 | 1.67 | 2.01 |
| CS604PC | C326 | Cryptography And Network Security Lab | 2.50 | 1.67 | 1.50 | 1.00 | 3.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CS605PC | C327 | Web Technologies Lab | 3.00 | 1.75 | 3.00 | 1.00 | 2.75 | 0.00 | 1.00 | 3.00 | 1.33 | 0.00 | 1.00 | 1.75 |
| EN606HS | C328 | Advanced English Communication Skills Lab | 2.00 | 1.00 | 1.50 | 2.00 | 1.00 | 3.00 | 0.00 | 0.00 | 2.00 | 1.33 | 1.00 | 1.50 |
| CS701PC | C411 | Data Mining | 2.25 | 2.00 | 2.25 | 1.75 | 1.75 | 2.00 | 0.00 | 2.25 | 2.00 | 2.00 | 2.00 | 2.00 |
| CS702PC | C412 | Principles of Programming Language | 2 | 2.33 | 2 | 1.67 | 2 | 2 | 0 | 2 | 1.5 | 1.33 | 1.25 | 2 |
| CS721PE | C413 | Python Programming | 2.50 | 2.50 | 2.00 | 2.75 | 2.00 | 2.00 | 2.00 | 0.00 | 1.25 | 0.00 | 1.00 | 1.25 |
| CS734PE | C414 | Software Process and Project Management | 3.00 | 3.00 | 3.00 | 3.00 | 2.00 | 0.00 | 0.00 | 0.00 | 3.00 | 0.00 | 2.00 | 2.50 |
| CS743PE | C415 | Blockchain Technology | 1.75 | 2.00 | 2.00 | 1.50 | 2.50 | 1.75 | 2.50 | 0.00 | 2.00 | 1.50 | 2.00 | 1.50 |
| CS703PC | C416 | Data Mining Lab | 2.50 | 2.50 | 2.00 | 2.75 | 2.00 | 1.75 | 0.00 | 0.00 | 1.67 | 2.00 | 1.75 | 1.25 |
| CS751PC | C417 | Python Programming Lab | 2.50 | 2.50 | 2.00 | 2.75 | 2.00 | 2.00 | 1.00 | 0.00 | 1.67 | 0.00 | 1.75 | 1.25 |
| CS705PC | C418 | Industry Oriented Mini Project | 2.31 | 2.00 | 1.78 | 1.50 | 1.45 | 1.98 | 1.00 | 1.80 | 2.50 | 1.50 | 2.00 | 2.50 |
| CS706PC | C419 | Seminar | 1.71 | 2.31 | 2.40 | 1.67 | 2.09 | 1.90 | 1.89 | 2.05 | 1.45 | 2.31 | 2.30 | 1.56 |
| CE833OE | C421 | Environmental Impact Assessment | 2.67 | 2.67 | 2.00 | 2.33 | 1.33 | 1.67 | 0.00 | 0.00 | 1.50 | 1.50 | 1.50 | 1.75 |
| CS862PE | C422 | Modern Software Engineering | 2.00 | 1.75 | 2.00 | 2.25 | 2.67 | 1.00 | 2.00 | 1.00 | 2.00 | 0.00 | 1.00 | 2.25 |
| CS864PE | C423 | Computer Forensics | 2.25 | 1.75 | 2.25 | 1.75 | 1.75 | 2.00 | 0.00 | 2.00 | 1.50 | 1.75 | 1.50 | 1.50 |
| CS801PC | C424 | Major Project | 2.00 | 2.00 | 3.00 | 2.00 | 2.50 | 2.10 | 2.50 | 2.09 | 3.00 | 2.00 | 1.67 | 2.01 |

**3.1.3 - B Program level Course-PSO matrix of all courses INCLUDING first year courses** :

| Course | PSO1 | PSO2 | PSO3 |
|---|---|---|---|
| C111 | 1.75 | 1.00 | 0.00 |
| C112 | 0.00 | 0.00 | 1.00 |
| C113 | 2.00 | 1.00 | 0.00 |
| C114 | 0.00 | 0.00 | 1.00 |
| C115 | 1.67 | 2.00 | 1.00 |
| C116 | 1.00 | 1.00 | 1.33 |
| C121 | 1.25 | 1.00 | 1.50 |
| C122 | 1.00 | 2.00 | 1.25 |
| C123 | 1.00 | 1.00 | 1.00 |
| C124 | 1.00 | 1.00 | 1.00 |
| C125 | 1.25 | 0.75 | 1.50 |
| C126 | 1.33 | 1.50 | 1.00 |
| C127 | 1.00 | 0.00 | 0.00 |
| C128 | 1.50 | 1.50 | 1.75 |
| C211 | 1.25 | 1.75 | 2.00 |
| C212 | 2.00 | 2.00 | 0.00 |
| C213 | 1.00 | 2.00 | 1.00 |
| C214 | 1.00 | 2.00 | 1.00 |
| C215 | 1.67 | 2.00 | 0.00 |
| C216 | 1.25 | 1.75 | 2.00 |
| C217 | 1.67 | 2.00 | 1.00 |
| C218 | 2.00 | 0.00 | 0.00 |
| C219 | 1.67 | 2.00 | 1.00 |
| C221 | 1.00 | 1.00 | 1.00 |
| C222 | 3 | 2 | 0 |
| C223 | 3.00 | 2.00 | 2.25 |
| C224 | 2.00 | 2.00 | 2.50 |
| C225 | 2.5 | 2.5 | 2 |
| C226 | 2.00 | 2.00 | 1.50 |

| | | | |
|---|---|---|---|
| C227 | 2.00 | 2.00 | 1.50 |
| C228 | 1.00 | 1.00 | 1.00 |
| C311 | 2.32 | 2.10 | 1.98 |
| C312 | 1.33 | 1.23 | 1.76 |
| C313 | 1.90 | 2.10 | 1.45 |
| C314 | 1.90 | 1.56 | 1.34 |
| C315 | 1.98 | 1.78 | 1.34 |
| C316 | 1.23 | 1.40 | 1.32 |
| C317 | 1.03 | 2.10 | 2.00 |
| C321 | 3.00 | 2.67 | 2.00 |
| C322 | 1.33 | 3.00 | 2.00 |
| C323 | 2.00 | 2.50 | 2.00 |
| C324 | 2.00 | 2.00 | 1.50 |
| C325 | 2.00 | 2.33 | 2.00 |
| C326 | 1.33 | 3.00 | 2.00 |
| C327 | 1.33 | 3.00 | 2.00 |
| C328 | 1.33 | 2.50 | 0.00 |
| C411 | 2.00 | 2.00 | 2.00 |
| C412 | 2.00 | 2.00 | 2.00 |
| C413 | 1.50 | 2.00 | 1.25 |
| C414 | 1.33 | 3.00 | 2.00 |
| C415 | 2.25 | 1.75 | 2.75 |
| C416 | 1.50 | 2.00 | 1.25 |
| C417 | 1.50 | 2.00 | 1.25 |
| C418 | 1.33 | 3.00 | 2.00 |
| C419 | 1.90 | 2.10 | 1.45 |
| C421 | 1.75 | 2.00 | 1.75 |
| C422 | 1.33 | 3.00 | 2.00 |
| C423 | 1.50 | 1.25 | 1.00 |
| C424 | 2.32 | 2.10 | 1.98 |

**3.2 Attainment of Course Outcomes** (50) Total Marks 50.00

**3.2.1 Describe the assessment processes used to gather the data upon which the evaluation of Course Outcome is based** (10) Institute Marks : 10.00

Instances of information assessment procedures may incorporate but are not limited to specific exam / tutorial questions, assignments, laboratory tests, project evaluation, student records. It is a collection of artifacts that show abilities, attributes and achievements created by the student during study period, internally created assessment exams, project presentations, oral exams etc.

The key aspects in Outcome-Based Education (OBE) are the assessment of course outcomes. At the underlying phase of OBE execution, the Course Outcomes (COs) for each course are characterized based on the Program Outcome (POs) and different necessities. At the end of each course, the COs needs to be assessed and evaluated, to check whether they have been accomplished or not.

Assessment is for atleast one or more processes, implemented by the department, that recognize, gather, and prepare information to evaluate the achievement of Program Educational Objectives (PEO's) and Program Outcomes (PO's). Attainment is the activity of accomplishing a standard outcome towards achievement of wanted objectives. Primarily attainment is the standard of academic attainment as observed by test or assessment result.

**Attainment of the COs can be calculated directly and indirectly.**

1. **Direct attainment** basically displays the student's knowledge and skills from their performance and examined from the performance of the students in all the relevant assessment categories, which include internal assessments, assignments, quiz and final university examination. These implementations provide a sampling of student's potential and provide strong proof of student learning.

2. **Indirect methods** like course end surveys, graduate exit surveys and other feedbacks from stakeholders reflect on student's learning. Indirect measures can provide information of graduates, alumni's view of their learning and how this learning is esteemed by various stakeholders.

**A) Internal Assessment:**

1. The Internal Assessment marks in theory papers are considered by two Mid exams in every semester according to the academic calendar decided by the affiliated university.
2. Maximum of 25 Internal Assessment Marks assigned in each theory subject.
3. Mid Question paper is prepared by considering the appropriate course outcomes and Bloom's taxonomy levels where questions are to be answered from respective course outcomes.
4. Question papers for these course papers will be prepared by concerned course faculty and will be submitted to the Examination branch after scrutiny and approval of senior faculty and the Head of the Department.
5. The Scrutiny team consists of following faculties:

| S.no | Faculty Name | Designation |
|---|---|---|
| 1 | Dr. MOHAMMAD.SANAULLAH QASEEM | PROFESSOR AND HOD OF CSE DEPARTMENT |
| 2 | MR. MOHAMMED KHALEEL AHMED | ASSOCIATE PROFESSOR |

**B) Internal Lab Assessment:**

1. The Internal Assessment marks will be based on the Record and Observation and practical test.
2. The lab in-charge will conduct the practical test.
3. There will be a limit of 25 Internal Assessment Marks in each practical paper.

4. The evaluation process for lab courses is done by the lab In-Charge considering the different segments:

| | |
|---|---|
| **Day to Day Performance:** | 10 marks |
| **Record Book:** | 5 marks |
| **Internal Exam and Viva:** | 10 marks |

## C) Seminar Evaluation:

1. Seminars are conducted by Head of the Department, Seminar Incharge and Class Coordinator.
2. The Committee members are:

| | Faculty Name | Designation |
|---|---|---|
| 1 | Dr. Mohammad Sanaullah Qaseem | Professor & H.O.D CSE, Vice Principal (Academics) |
| 2 | Mr. Mohammed Khaleel Ahmed | Associate professor CSE |
| 3 | Ms. Waseema Masood | Associate professor CSE |

3. Seminar topic will be finalized by considering the technology which is competitive and in demand. The evaluation process for Internal Assessment is given by committee members and guide and reviewer according to Rubrics model.

| Segment | Marks | Area |
|---|---|---|
| Presentation | 10 | Classification of concepts |
| | 10 | Data in Presentation |
| | 10 | Understanding and explanation |
| | 10 | Answering |
| Technical Seminar Report | 10 | Presentation Skills and Report |

### D) Project Evaluation:

1. Major Project work starts in 8th semester and will be completed batch wise, each batch comprises of maximum of four members.
2. The Project Incharge and Coordinator gives the instructions to the students by the end of 7th semester to form Project team.
3. The Project evaluation is done by the **Project Review Committee** which consists of the members:

| Faculty Name | Designation |
|---|---|
| 1.Dr.Mohammad Sanaullah Qaseem | Prof & H.O.D CSE, Vice Principal (Academics) |
| 3. Dr. Riyazoddin Siddiqui | Professor CSE |
| 3. Mr.Mohamed Khaleel Ahmed | Associate Professor CSE |

4. Students will submit the Abstract to the coordinator and the project will be finalized by the Head of the Department by conducting the Title Finalization Review by the end of 7th semester.
5. Project Coordinators assigns the guides for project team members based on Area of specialization of faculty members.
6. The Project guides will follow up and monitor the project work and the progress of students on daily/weekly basis through schedule as mentioned below:

| S.No | Review | Scheduled Dates |
|---|---|---|
| 1. | 1st Review | April 7th,8th,9th 2021 |
| 2. | 2nd Review | May 11th,12th,13th 2021 |
| 3. | 3rd Review | June 8th,9th,10th 2021 |

7. Three Project Reviews will be conducted by evaluating their skills and correcting them in every area of presentation during the 8th semester by Project Evaluation team and allotted Internal Guides.
8. Marks will be given and submitted to the Head of the Department by the end of the review conducted by the External Examiner according to the schedule of panel.
9. Review will be conducted by the External Examiner according to the schedule of panel allotted by the University and then marks will be submitted to the Head of the Department and also uploaded in the university portal.
10. The students are encouraged to improve their technical paper presentation skills and also the paper publication in National and International journals to corroborate their findings during the project work.

### 3.2.2 Record the attainment of Course Outcome of all courses with respect to set attainment levels (40)

**Measuring Course Outcomes attained through University Examinations**

Target has been stated in terms of percentage of students getting more than the university average marks or more as selected by the Program in the final examination. Some cases, where the university does not provide useful indicators like average or median marks etc., Example related to attainment levels vs. targets: (The examples indicated are for reference only. Program may appropriately define levels)

**Attainment Level 1**: 35% students scoring more than 35% marks (target) out of the relevant maximum marks of set attainment level in the final university examination.

**Attainment Level 2**: 45% students scoring more than 35% marks (target) out of the relevant maximum marks of set attainment level in the final university examination.

**Attainment Level 3**: 55% students scoring more than 35% marks (target) out of the relevant maximum marks of set attainment level in the final university examination. Attainment is measured in terms of actual percentage of students getting set percentage of marks.

- If targets are achieved, then all the course outcomes are attained for that year. Program is expected to set higher targets for the following years as a part of continuous improvement. If targets
- are not achieved the program should put in place an action plan to attain the target in subsequent years.

**Measuring CO attainment through Internal Assessments: (The examples indicated are for reference only. Program may appropriately define levels)**

Target may be stated in terms of percentage of students getting more than class average marks in each of the associated COs in the assessment parameters (mid exams, quiz, assignments, mini projects, major project and comprehensive viva etc. as mapped with the PO Example

Mid Exam 1 addresses CO1 and CO2 distributed between assignment, quiz and descriptive exam out of maximum 25 marks. Examples related to attainment levels Vs. targets:

**Attainment Level 1**: 50% students scoring more than 60% marks (target) out of the relevant maximum marks. **Attainment Level 2**: 60% students scoring more than 60% marks (target) out of the relevant maximum marks. **Attainment Level 3**: 70% students scoring more than 60% marks (target) out of the relevant maximum marks.

Similar targets and achievement are to be stated for mini project, seminar, major project, comprehensive viva, lab internal and lab external. Course Outcome Attainment:

For example:
Attainment through University Examination: Substantial i.e. 3 Attainment through Internal Assessment: Moderate i.e. 2

Assuming 75% weightage to University examination and 25% weightage to Internal assessment, the attainment calculations will be (75% of University level) + (25% of Internal level) i.e. 75% of 3 + 25% of 2 = 2.25 + 0.5 = 2.75

Measurement of Course attainment levels for Internal & External Examinations: DIRECT METHOD

| | **ACADEMIC YEAR** | **TARGET** | |
|---|---|---|---|
| CAY: | 2020-2021 | Competence 35% Threshold Target | |
| CAYm1 | 2019-2020 | Competence 35% Threshold Target | |
| CAYm2 | 2018-2019 | Competence 35% Threshold Target | |
| CAYm3 | 2017-2018 | Competence 35% Threshold Target | |
| **FOR INTERNAL EXAMS** | | | |
| **ATTAINMENT LEVEL** | **MID EXAM (DESCRIPTIVE + QUIZ + ASSIGNMENT)** | | |
| **0** | < 50% students got target | | |
| 1 | 50 % to 59% students got more than target | | |
| 2 | 60 % to 69% students got more than target | | |
| 3 | ≥70% students got more than target | | |
| **FOR EXTERNAL EXAMS** | | | |
| **ATTAINMENT LEVEL** | **CAY(20-21)** | **CAYm1** | **CAYm2** |
| 0 | < 35% students got target | < 35% students got target | < 35% students got target |

| | | | |
|---|---|---|---|
| 1 | 35 % to 44% students got more than target | 35 % to 44% students got more than target | 35 % to 44% students got more than target |
| 2 | 45 % to 54% students got more than target | 45 % to 54% students got more than target | 45 % to 54% students got more than target |
| 3 | ≥ 55 % students got more than target | ≥ 55 % students got more than target | ≥ 55 % students got more than target |

**FOR EXTERNAL LABS**

| ATTAINMENT LEVEL | TARGET-6 (CGPA) CAYM2 (18-19) | TARGET-7 (CGPA) CAYM1 (19-20) | TARGET-8 (CGPA) CAY(20-21) |
|---|---|---|---|
| 0 | < 50% students got target | < 50% students got target | < 50% students got target |
| 1 | 50 % to 59% students got more than target | 50 % to 59% students got more than target | 50 % to 59% students got more than target |
| 2 | 60 % to 69% students got more than target | 60 % to 69% students got more than target | 60 % to 69% students got more than target |
| 3 | ≥ 70% students got more than target | ≥ 70% students got more than target | ≥ 70% students got more than target |

A. **CO attainment calculation of a course(sample)**

**CO ATTAINMENTS 2020-2021**

# NAWAB SHAH ALAM KHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, OSMANIA UNIVERSITY, Hyderabad

## DEPARTMENT OF COMPUTER SCIENCE ENGINEERING

B.E. II YEAR, III SEM - ATTAINMENT CALCULATIONS - Academic Year: 2020-21

Subje: DATABASE MANAGEMENT SYSTEMS  Subject Code: PC233CS  Faculty: ISHRATH NOUSHEEN

| S.No. | Hall Ticket No | CIE -1 | | | | | | | | | | | CIE -2 | | | | | | | | | | | CIE | | SEE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | ASG-1 (5M) | ASG-2 (5 M) | Part-1 Q1-abcd (6 M) | | Q 2 (7 M) | Q 3 (7 M) | BEST OF Q2&Q3 CO1 | Q 4 (7 M) | Q 5 (7 M) | BEST OF Q4&Q5 CO2 | CIE-1 TOTAL (30 M) | ASG-1 (5M) | ASG-2 (5 M) | Part-1 Q1abcd (6 M) | | Q 2 (7 M) | Q 3 (7 M) | BEST OF Q2&Q3 CO3 | Q 4 (7 M) | Q 5 (7 M) | BEST OF Q4&Q5 CO4 | CIE-2 TOTAL (30 M) | Average CIE (30 M) | TOTAL Marks (100 M) | End Exam (70 M) |
| | | CO1 | CO2 | CO1 | CO2 | CO1 | CO1 | | CO2 | CO2 | | | CO3 | CO4 | CO3 | CO4 | CO3 | CO3 | | CO4 | CO4 | | | | | |
| 1 | 161019733001 | 5 | 5 | 3 | 3 | 7 | | 7 | 6 | | 6 | 29 | 5 | 5 | 3 | 3 | | 5 | 5 | 5 | | 5 | 26 | 28 | 49 | 22 |
| 2 | 161019733002 | 5 | 5 | 3 | 3 | | 7 | 7 | | 4 | 4 | 27 | 5 | 5 | 3 | 3 | | 7 | 7 | | 6 | 6 | 29 | 28 | 99 | 71 |
| 3 | 161019733003 | 5 | 5 | 3 | 3 | 7 | | 7 | | 4 | 4 | 27 | 5 | 5 | 3 | 3 | 6 | | 6 | 5 | | 5 | 27 | 27 | 39 | 12 |
| 4 | 161019733004 | 5 | 5 | 3 | 3 | 4 | | 4 | | 4 | 4 | 24 | 5 | 5 | 3 | 3 | 7 | | 7 | 5 | | 5 | 28 | 26 | 69 | 43 |
| 5 | 161019733005 | 5 | 5 | 3 | 3 | 7 | | 7 | | 3 | 3 | 26 | 5 | 5 | 3 | 3 | | 6 | 6 | 5 | | 5 | 27 | 27 | 69 | 43 |
| 6 | 161019733006 | 5 | 5 | 3 | 3 | 5 | | 5 | | 5 | 5 | 26 | 5 | 5 | 3 | 3 | | 7 | 7 | | 6 | 6 | 29 | 28 | 69 | 42 |
| 7 | 161019733007 | 5 | 5 | 3 | 3 | 6 | | 6 | | 5 | 5 | 27 | 5 | 5 | 3 | 3 | | 7 | 7 | | 6 | 6 | 29 | 28 | 59 | 31 |
| 8 | 161019733008 | 5 | 5 | 3 | 3 | 4 | | 4 | | 4 | 4 | 24 | 5 | 5 | 3 | 3 | 6 | | 6 | 6 | | 6 | 28 | 26 | 59 | 33 |
| 9 | 161019733009 | 5 | 5 | 3 | 3 | | 5 | 5 | | 5 | 5 | 26 | 5 | 5 | 3 | 3 | 7 | | 7 | 7 | | 7 | 30 | 28 | 69 | 41 |
| 10 | 161019733010 | 5 | 5 | 3 | 3 | | 4 | 4 | | 4 | 4 | 24 | 5 | 5 | 3 | 3 | 5 | | 5 | 5 | | 5 | 26 | 25 | 54 | 29 |
| 11 | 161019733011 | 5 | 5 | 3 | 3 | | 5 | 5 | | 4 | 4 | 25 | 5 | 5 | 3 | 3 | 5 | | 5 | 5 | | 5 | 26 | 26 | 59 | 34 |
| 12 | 161019733012 | 5 | 5 | 3 | 3 | | 5 | 5 | | 5 | 5 | 26 | 5 | 5 | 3 | 3 | 6 | | 6 | 6 | | 6 | 28 | 27 | 54 | 27 |
| 13 | 161019733013 | 5 | 5 | 3 | 3 | 5 | | 5 | | 6 | 6 | 27 | 5 | 5 | 3 | 3 | | 7 | 7 | | 6 | 6 | 29 | 28 | 84 | 56 |
| 14 | 161019733014 | 5 | 5 | 3 | 3 | | 4 | 4 | 4 | | 4 | 24 | 5 | 5 | 3 | 3 | 6 | | 6 | | 6 | 6 | 28 | 26 | 84 | 58 |
| 15 | 161019733016 | 5 | 5 | 3 | 3 | | 6 | 6 | | 5 | 5 | 27 | 5 | 5 | 3 | 3 | | 5 | 5 | 6 | | 6 | 27 | 27 | 69 | 42 |
| 16 | 161019733017 | 5 | 5 | 3 | 3 | | 5 | 5 | | 5 | 5 | 26 | 5 | 5 | 3 | 3 | 5 | | 5 | 7 | | 7 | 28 | 27 | 59 | 32 |
| 17 | 161019733018 | 5 | 5 | 3 | 3 | | 6 | 6 | | 5 | 5 | 27 | 5 | 5 | 3 | 3 | | 6 | 6 | | 5 | 5 | 27 | 27 | 59 | 32 |
| 18 | 161019733019 | 5 | 5 | 3 | 3 | | 6 | 6 | 5 | | 5 | 27 | 5 | 5 | 3 | 3 | | 5 | 5 | 5 | | 5 | 26 | 27 | 54 | 28 |
| 19 | 161019733020 | 5 | 5 | 3 | 3 | | 5 | 5 | | 5 | 5 | 26 | 5 | 5 | 3 | 3 | 4 | | 4 | | 7 | 7 | 27 | 27 | 59 | 33 |
| 20 | 161019733021 | 5 | 5 | 3 | 3 | | 6 | 6 | | 5 | 5 | 27 | 5 | 5 | 3 | 3 | | 5 | 5 | 5 | | 5 | 26 | 27 | 69 | 43 |
| 21 | 161019733022 | 5 | 5 | 3 | 3 | 6 | | 6 | 5 | | 5 | 27 | 5 | 5 | 3 | 3 | 5 | | 5 | | 7 | 7 | 28 | 28 | 69 | 42 |
| 22 | 161019733023 | 5 | 5 | 3 | 3 | 6 | | 6 | | 5 | 5 | 27 | 5 | 5 | 3 | 3 | | 5 | 5 | 5 | | 5 | 26 | 27 | 49 | 23 |
| 23 | 161019733024 | 5 | 5 | 3 | 3 | | 5 | 5 | | 6 | 6 | 27 | 5 | 5 | 3 | 3 | 5 | | 5 | | 5 | 5 | 26 | 27 | 54 | 28 |
| 24 | 161019733025 | 5 | 5 | 3 | 3 | 6 | | 6 | | 6 | 6 | 28 | 5 | 5 | 3 | 3 | | 6 | 6 | | 5 | 5 | 27 | 28 | 54 | 27 |
| 25 | 161019733026 | 5 | 5 | 3 | 3 | | 5 | 5 | | 4 | 4 | 25 | 5 | 5 | 3 | 3 | | 5 | 5 | 5 | | 5 | 26 | 26 | 54 | 29 |

| A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z | AA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 24 | 161019733025 | 5 | 5 | 3 | 3 | 6 | | 6 | | 6 | 6 | 28 | 5 | 5 | 3 | 3 | | 6 | 6 | | 5 | 5 | 27 | 28 | 54 | 27 |
| 25 | 161019733026 | 5 | 5 | 3 | 3 | | 5 | 5 | | 4 | 4 | 25 | 5 | 5 | 3 | 3 | | 5 | 5 | 5 | | 5 | 26 | 26 | 54 | 29 |
| 26 | 161019733027 | 5 | 5 | 3 | 3 | | 6 | 6 | | 5 | 5 | 27 | 5 | 5 | 3 | 3 | | 6 | 6 | | 6 | 6 | 28 | 28 | 49 | 22 |
| 27 | 161019733028 | 5 | 5 | 3 | 3 | | 6 | 6 | | 6 | 6 | 28 | 5 | 5 | 3 | 3 | 6 | | 6 | | 5 | 5 | 27 | 28 | 49 | 22 |
| 28 | 161019733029 | 5 | 5 | 3 | 3 | | 3 | 3 | | 4 | 4 | 23 | 5 | 5 | 3 | 3 | 3 | | 3 | | 3 | 3 | 22 | 23 | 54 | 32 |
| 29 | 161019733030 | 5 | 5 | 3 | 3 | 6 | | 6 | | 5 | 5 | 27 | 5 | 5 | 3 | 3 | | 5 | 5 | | 5 | 5 | 26 | 27 | 39 | 13 |
| 30 | 161019733032 | 5 | 5 | 3 | 3 | | 5 | 5 | 4 | | 4 | 25 | 5 | 5 | 3 | 3 | 6 | | 6 | | 5 | 5 | 27 | 26 | 49 | 23 |
| 31 | 161019733033 | 5 | 5 | 3 | 3 | | 5 | 5 | | 6 | 6 | 27 | 5 | 5 | 3 | 3 | | 6 | 6 | | 7 | 7 | 29 | 28 | 69 | 41 |
| 32 | 161019733034 | 5 | 5 | 3 | 3 | 5 | | 5 | 6 | | 6 | 27 | 5 | 5 | 3 | 3 | | 6 | 6 | | 5 | 5 | 27 | 27 | 54 | 27 |
| 33 | 161019733035 | 5 | 5 | 3 | 3 | | 6 | 6 | | 6 | 6 | 28 | 5 | 5 | 3 | 3 | | 6 | 6 | | 7 | 7 | 29 | 29 | 49 | 21 |
| 34 | 161019733036 | 5 | 5 | 3 | 3 | | 4 | 4 | | 4 | 4 | 24 | 5 | 5 | 3 | 3 | 6 | | 6 | | 5 | 5 | 27 | 26 | 69 | 44 |
| 35 | 161019733037 | 5 | 5 | 3 | 3 | | 6 | 6 | | 5 | 5 | 27 | 5 | 5 | 3 | 3 | | 5 | 5 | | 5 | 5 | 26 | 27 | 59 | 33 |
| 36 | 161019733038 | 5 | 5 | 3 | 3 | 4 | | 4 | 4 | | 4 | 24 | 5 | 5 | 3 | 3 | 5 | | 5 | | 5 | 5 | 26 | 25 | 59 | 34 |
| 37 | 161019733039 | 5 | 5 | 3 | 3 | | 5 | 5 | | 5 | 5 | 26 | 5 | 5 | 3 | 3 | 6 | | 6 | | 5 | 5 | 27 | 27 | 54 | 28 |
| 38 | 161019733040 | 5 | 5 | 3 | 3 | 5 | | 5 | | 5 | 5 | 26 | 5 | 5 | 3 | 3 | | 5 | 5 | 5 | | 5 | 26 | 26 | 49 | 23 |
| 39 | 161019733041 | 5 | 5 | 3 | 3 | | 6 | 6 | | 5 | 5 | 27 | 5 | 5 | 3 | 3 | | 5 | 5 | | 5 | 5 | 26 | 27 | 54 | 28 |
| 40 | 161019733042 | 5 | 5 | 3 | 3 | 5 | | 5 | 6 | | 6 | 27 | 5 | 5 | 3 | 3 | | 6 | 6 | | 6 | 6 | 28 | 28 | 69 | 42 |
| 41 | 161019733043 | 5 | 5 | 3 | 3 | 5 | | 5 | 4 | | 4 | 25 | 5 | 5 | 3 | 3 | | 5 | 5 | | 5 | 5 | 26 | 26 | 49 | 24 |
| 42 | 161019733044 | 5 | 5 | 3 | 3 | | 6 | 6 | 6 | | 6 | 28 | 5 | 5 | 3 | 3 | 5 | | 5 | 5 | | 5 | 26 | 27 | 59 | 32 |
| 43 | 161019733045 | 5 | 5 | 3 | 3 | | 5 | 5 | | 5 | 5 | 26 | 5 | 5 | 3 | 3 | | | 0 | | | 0 | 16 | 21 | 59 | 38 |
| 44 | 161019733046 | 5 | 5 | 3 | 3 | 5 | | 5 | | 4 | 4 | 25 | 5 | 5 | 3 | 3 | | 5 | 5 | | 5 | 5 | 26 | 26 | 39 | 14 |
| 45 | 161019733047 | 5 | 5 | 3 | 3 | 7 | | 7 | | 6 | 6 | 29 | 5 | 5 | 3 | 3 | | 6 | 6 | | 7 | 7 | 29 | 29 | 59 | 30 |
| 46 | 161019733048 | 5 | 5 | 3 | 3 | 5 | | 5 | 4 | | 4 | 25 | 5 | 5 | 3 | 3 | 6 | | 6 | | 5 | 5 | 27 | 26 | 54 | 28 |
| 47 | 161019733049 | 5 | 5 | 3 | 3 | | 6 | 6 | | 5 | 5 | 27 | 5 | 5 | 3 | 3 | | 5 | 5 | | 6 | 6 | 27 | 27 | 59 | 32 |
| 48 | 161019733050 | 5 | 5 | 3 | 3 | | 6 | 6 | 5 | | 5 | 27 | 5 | 5 | 3 | 3 | | 6 | 6 | 6 | | 6 | 28 | 28 | 49 | 22 |
| 49 | 161019733051 | 5 | 5 | 3 | 3 | 3 | | 3 | | 4 | 4 | 23 | 5 | 5 | 3 | 3 | 6 | | 6 | | 5 | 5 | 27 | 25 | AB | 0 |
| 50 | 161019733052 | 5 | 5 | 3 | 3 | | 6 | 6 | | 5 | 5 | 27 | 5 | 5 | 3 | 3 | | 7 | 7 | | 7 | 7 | 30 | 29 | 59 | 31 |
| 51 | 161019733053 | 5 | 5 | 3 | 3 | | 6 | 6 | | 7 | 7 | 29 | 5 | 5 | 3 | 3 | | 6 | 6 | | 5 | 5 | 27 | 28 | 39 | 11 |
| 52 | 161019733054 | 5 | 5 | 3 | 3 | | 5 | 5 | | 6 | 6 | 27 | 5 | 5 | 3 | 3 | 5 | | 5 | | 5 | 5 | 26 | 27 | 59 | 33 |
| 53 | 161019733055 | 5 | 5 | 3 | 3 | | 6 | 6 | | 6 | 6 | 28 | 5 | 5 | 3 | 3 | | 6 | 6 | | 7 | 7 | 29 | 29 | 54 | 26 |
| 54 | 161019733056 | 5 | 5 | 3 | 3 | | 7 | 7 | 5 | | 5 | 28 | 5 | 5 | 3 | 3 | | 7 | 7 | | 7 | 7 | 30 | 29 | 54 | 25 |
| 55 | 161019733057 | 5 | 5 | 3 | 3 | 5 | | 5 | 6 | | 6 | 27 | 5 | 5 | 3 | 3 | | | 0 | 5 | | 5 | 21 | 24 | 59 | 35 |
| 56 | 161019733058 | 5 | 5 | 3 | 3 | | 5 | 5 | | 5 | 5 | 26 | 5 | 5 | 3 | 3 | | 5 | 5 | | 5 | 5 | 26 | 26 | 54 | 28 |
| 57 | 161019733059 | 5 | 5 | 3 | 3 | | 6 | 6 | | 5 | 5 | 27 | 5 | 5 | 3 | 3 | | 6 | 6 | 5 | | 5 | 27 | 27 | 59 | 32 |
| 58 | 161019733060 | 5 | 5 | 3 | 3 | 6 | | 6 | | 6 | 6 | 28 | 5 | 5 | 3 | 3 | | 5 | 5 | | 5 | 5 | 26 | 27 | 59 | 32 |
| 59 | 245219733005 | 5 | 5 | 3 | 3 | | 6 | 6 | | 5 | 5 | 27 | 5 | 5 | 3 | 3 | | 6 | 6 | | 6 | 6 | 28 | 28 | 54 | 27 |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 57 | 161019733059 | 5 | 5 | 3 | 3 | | 6 | 6 | | 5 | 5 | 27 | 5 | 5 | 3 | 3 | | 6 | 6 | 5 | | 5 | 27 | 27 | 59 | 32 |
| 58 | 161019733060 | 5 | 5 | 3 | 3 | 6 | | 6 | | 6 | 6 | 28 | 5 | 5 | 3 | 3 | | 5 | 5 | | 5 | 5 | 26 | 27 | 59 | 32 |
| 59 | 245219733005 | 5 | 5 | 3 | 3 | | 6 | 6 | | 5 | 5 | 27 | 5 | 5 | 3 | 3 | | 6 | 6 | | 6 | 6 | 28 | 28 | 54 | 27 |
| 60 | 161019733301 | 5 | 5 | 3 | 3 | | 6 | 6 | 5 | | 5 | 27 | 5 | 5 | 3 | 3 | | 7 | 7 | 6 | | 6 | 29 | 28 | AB | 0 |
| 61 | 161019733302 | 5 | 5 | 3 | 3 | 5 | | 5 | | 6 | 6 | 27 | 5 | 5 | 3 | 3 | 5 | | 5 | | 5 | 5 | 26 | 27 | 59 | 33 |
| 62 | 161019733303 | 5 | 5 | 3 | 3 | | 5 | 5 | | 6 | 6 | 27 | 5 | 5 | 3 | 3 | | 6 | 6 | 6 | | 6 | 28 | 28 | 59 | 32 |
| 63 | 161019733304 | 5 | 5 | 3 | 3 | | 5 | 5 | | 5 | 5 | 26 | 5 | 5 | 3 | 3 | | 6 | 6 | | 6 | 6 | 28 | 27 | 59 | 32 |
| 64 | 161019733305 | 5 | 5 | 3 | 3 | 6 | | 6 | | 5 | 5 | 27 | 5 | 5 | 3 | 3 | | 5 | 5 | | 5 | 5 | 26 | 27 | 54 | 28 |
| 65 | 161019733306 | 5 | 5 | 3 | 3 | 6 | | 6 | 6 | | 6 | 28 | 5 | 5 | 3 | 3 | 5 | | 5 | | 5 | 5 | 26 | 27 | 54 | 27 |
| **Average Marks** | | **5** | **5** | **3** | **3** | **5.42** | **5.44** | **5.43** | **5.06** | **5.02** | **5.03** | **26.5** | **5** | **5** | **3** | **3** | **5.46** | **5.77** | **5.48** | **5.45** | **5.57** | **5.45** | **26.9** | **26.7** | **58** | **30.3** |

**CIE (Mid Exam) CO Wise Percentage**

| COURSE OUTCOME | CO Wise Sum | CO Wise Percentage % |
|---|---|---|
| C01 | 13.43 | 89.54 |
| C02 | 13.03 | 86.87 |
| C03 | 13.48 | 89.85 |
| C04 | 13.45 | 89.64 |
| **Average** | **13.35** | **88.97** |

**CIE - CO Wise Sum Formula**

| |
|---|
| C01 = ASG(C01) + Q1(C01) + BestOfQ2&Q3(C01) |
| C02 = ASG(C02) + Q1(C02) + BestOfQ4&Q5(C02) |
| C03 = ASG(C03) + Q1(C03) + BestOfQ2&Q3(C03) |
| C04 = ASG(C04) + Q1(C04) + BestOfQ4&Q5(C04) |

**CIE - CO Wise Percentage**

| |
|---|
| C01 % = {C01 SUM/total C01 Marks(15)}*100 |
| C02 % = {C02 SUM/total C02 Marks(15)}*100 |
| C03 % = {C03 SUM/total C03 Marks(15)}*100 |
| C04 % = {C04 SUM/total C04 Marks(15)}*100 |

| | |
|---|---|
| Average Marks | 30.31 |
| tudent Count >Avg | 48 |
| Total Students | 65 |
| Percentage | 73.846 |

**SEE (End Exam) CO Wise Percentage**

| | | |
|---|---|---|
| C01-C04 | 30.31 | 73.85 |

**SEE - CO Wise Percentage**

| |
|---|
| C01-C04 = End Exam Avg Marks |

**SEE - CO Wise Percentage**

| |
|---|
| C01-C04 % = (End Exam Avg Marks/70)*100 |

| CO ATTAINMENT | Internal Marks % | Internal Attainment | External Marks % | External Attainment | Direct Attainment |
|---|---|---|---|---|---|
| CO1 | 90 | 3 | 73.9 | 3 | 3 |
| CO2 | 87 | 3 | 73.9 | 3 | 3 |
| CO3 | 90 | 3 | 73.9 | 3 | 3 |
| CO4 | 90 | 3 | 73.9 | 3 | 3 |
| **Average** | | | | | **3** |

**INTERNAL EXAM ATTAINMENT LEVEL SCALE**

| | | |
|---|---|---|
| Attainment Levels | 0 | <=49 |
| | 1 | 50-59 |
| | 2 | 60-69 |
| | 3 | >=70 |

**EXTERNAL EXAM / FINAL ATTAINMENT LEVEL SCALE**

| | | |
|---|---|---|
| Attainment Levels | 0 | <=39 |
| | 1 | 40-49 |
| | 2 | 50-59 |
| | 3 | >=60 |

**Direct Attainment %**

| |
|---|
| C01=(C01IntAtn*0.30+C01ExtAtn*0.70) |
| C02=(C02IntAtn*0.30+C02ExtAtn*0.70) |
| C03=(C03IntAtn*0.30+C03ExtAtn*0.70) |
| C04=(C04IntAtn*0.30+C04ExtAtn*0.70) |

**CO-PO Matrix**

| Course | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 | PSO3 | Attainment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CO1 | 2 | 2 | | | | | | | | | | 1 | 2 | | | 3 |
| CO2 | 2 | | | | 2 | | | | | 2 | | 2 | 1 | | | 3 |
| CO3 | 2 | | 2 | 1 | 2 | 2 | 2 | | 2 | | 2 | | 3 | 2 | 2 | 3 |
| CO4 | 2 | 2 | 2 | 2 | | | | | | | | 2 | | | | 3 |

**Final Attainment %**

| |
|---|
| C01 = (DIRECT ATTAINMENT*0.8) + (INDIRECT ATTAINMENT*0.2) |
| C02 = (DIRECT ATTAINMENT*0.8) + (INDIRECT ATTAINMENT*0.2) |
| C03 = (DIRECT ATTAINMENT*0.8) + (INDIRECT ATTAINMENT*0.2) |
| C04 = (DIRECT ATTAINMENT*0.8) + (INDIRECT ATTAINMENT*0.2) |

**CO-PO Matrix**

| Course | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 | PSO3 | Attainment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CO1 | 2 | 2 | | | | | | | | | | 1 | 2 | | | 3 |
| CO2 | 2 | | | | 2 | | | | | 2 | | 2 | 1 | | | 3 |
| CO3 | 2 | | 2 | 1 | 2 | 2 | 2 | | 2 | | 2 | | 3 | 2 | 2 | 3 |
| CO4 | 2 | 2 | 2 | 2 | | | | | | | | 2 | | | | 3 |
| Avera | 2 | 2 | 2 | 1.5 | 2 | 2 | 2 | | 2 | 2 | 2 | 1.67 | 2 | 2 | 2 | 3 |

**Final Attainment %**

| |
|---|
| C01 = (DIRECT ATTAINMENT*0.8) + (INDIRECT ATTAINMENT*0.2) |
| C02 = (DIRECT ATTAINMENT*0.8) + (INDIRECT ATTAINMENT*0.2) |
| C03 = (DIRECT ATTAINMENT*0.8) + (INDIRECT ATTAINMENT*0.2) |
| C04 = (DIRECT ATTAINMENT*0.8) + (INDIRECT ATTAINMENT*0.2) |

**Course PO Attainments**

| | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 | PSO3 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| [illegible] | 2 | 2 | 2 | 1.5 | 2 | 2 | 2 | 0 | 2 | 2 | 2 | 1.67 | 2 | 2 | 2 |
| [illegible] | 2.5 | 2 | 1 | 2.25 | 2.5 | 2.5 | 2.5 | 0 | 2.5 | 2.5 | 2.5 | 2.33 | 2.5 | 2.5 | 2.5 |
| [illegible] | 2.1 | 2 | 1.8 | 1.65 | 2.1 | 2.1 | 2.1 | 0 | 2.1 | 2.1 | 2.1 | 1.8 | 2.1 | 2.1 | 2.1 |

**PO ATTAINMENTS**

| |
|---|
| DIRECT ATTAINMENT (PO1)= (Average of PO1*Average of CO Direct Attainment)/3 |
| Similar for PO2 TO PO12 & PSO1TO PSO3 |
| INDIRECT ATTAINMENT IS OBTAINED FROM COURSE EXIT SURVEY |
| FINAL ATTAINMENT = (DIR ATNM-PO1)*0.8 + (INDIR ATNM-PO1)*0.2 |

**3.3 Attainment of Program Outcomes and Program Specific Outcomes** (50) Total Marks 50.00

**3.3.1 Describe the assessment tools and processes used for measuring the attainment of each of the Program Outcomes and Program Specific Outcomes** (10) Institute Marks : 10.00

DIRECT ATTAINMENT

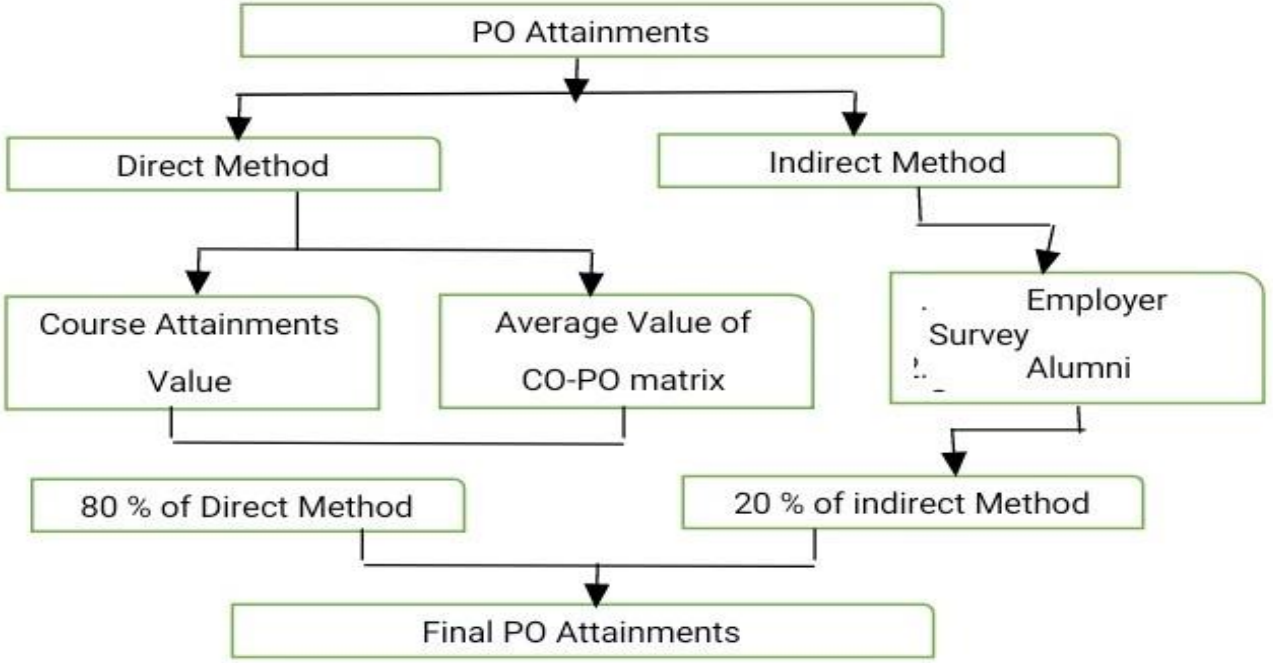



Fig 3.3.1 Flowchart of Program Outcomes

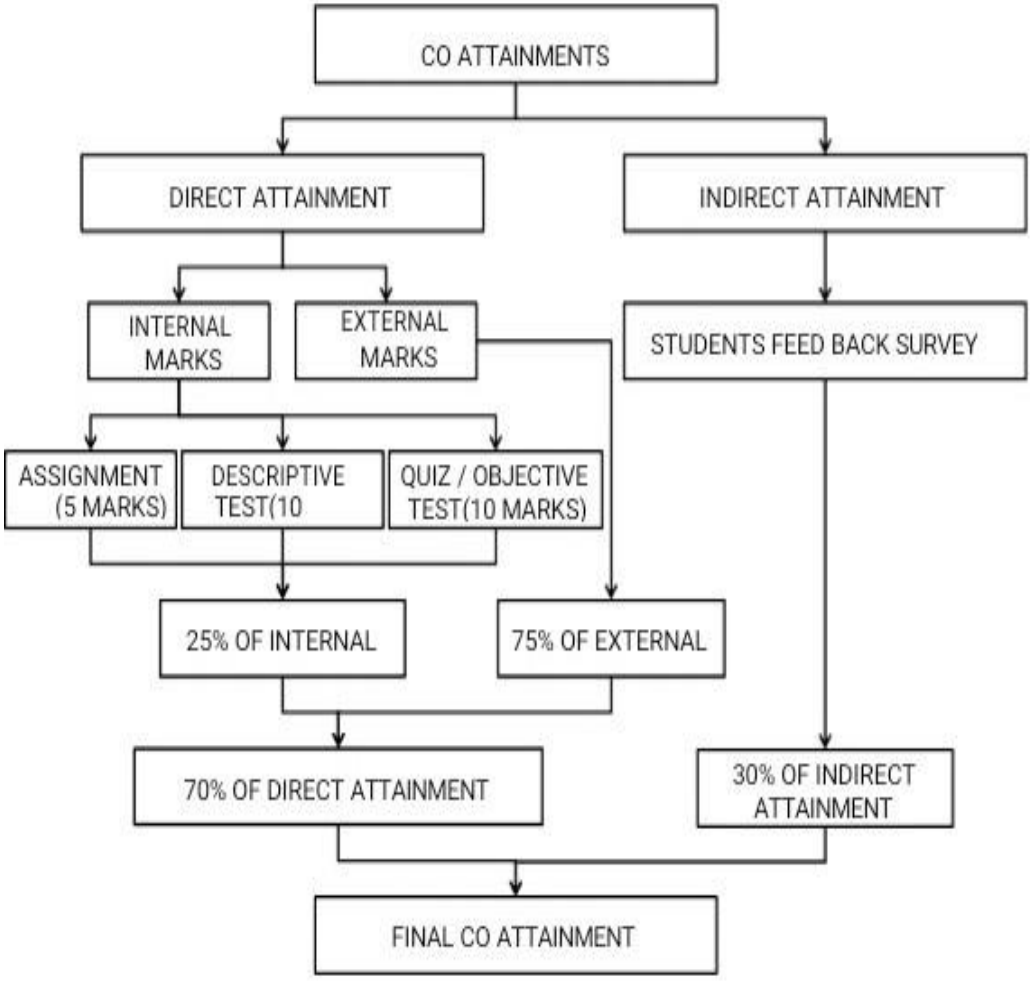



Fig 3.3.2 Flowchart of Program Specific Outcomes

**PROCEDURE FOLLOWED TO MEASURE PO AND PSO ATTAINMENT**

**Assessment tools & processes used for measuring the attainment of each of Program Outcomes and Program Specific Outcomes.**

*The following methods of assessment are identified for assessing the Program Outcomes & Program specific outcomes.*

**LIST OF ASSESSMENT TOOLS AND PROCESS**

**Direct method:**

v. Continuous Internal Evaluation (CIE) tests
v. Semester End examinations
v. Practical tests
v. Project
vi. Seminar Presentations

**Indirect method (Stake Holders):**

v. Employer Survey (Industry Survey)
v. Alumni Survey
v. Graduate Exit Survey

### 3.3.1 b. THE QUALITY/RELEVENCE OF ASSESSMENT TOOLS AND PROCESSES USED

**In Direct** method, for each course CO attainment is calculated based on the student performance in both internal and external examinations. The CO attainment values are used to calculate the attainments of POs and PSOs for that course using CO - PO matrix and CO- PSOs matrix.

**In Indirect** Method survey of various stake holders like Employer, Alumni, and Graduate survey are considered for evaluation.

- **Employer Survey (Industry Survey)**

  The survey provides information about the quality of education provided at institutions, by asking employers to provide feedback about the generic skills, technical skills and work readiness of the graduate employed in their workplace

**Alumni Survey**

The survey asks alumni to evaluate the impact of their undergraduate education on their critical thinking, problem solving, and other learning outcomes.

- **Graduate Exit survey**

  The survey is conducted by the department from Students who are finally graduated and ready for job or higher studies. This survey consist of four parts.

- Part I is based on student observation(s) regarding education skills (all courses delivered by faculty as well as technician, presentations, availability of teaching and non-teaching staff of the institute).
- Part II Question(s) based on Program Educational Objectives like students satisfaction level.
- Part III: Question(s) based on Program Outcomes Assessment like knowledge attained after completion of program.
- Part IV is based on Comment(s) if any for better improvement of the institute for future.

**3.3.2 Provide results of evaluation of PO&PSO** (40)

Institute Marks : 40.00

PO Attainment

| Subject Code | Course code | SUBJECT | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BS102MT | C111 | Mathematics - I | 3.00 | 2.00 | 1.00 | 1.50 | 1.33 | 1.75 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 1.50 |
| BS105CH | C112 | Chemistry | 1.00 | 1.33 | 3.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 1.00 |
| | C113 | ESSENCE OF INDIAN TRADITIONAL KNOWLEDGE | 1.50 | 2.00 | 1.50 | 1.33 | 1.50 | 2.00 | 1.50 | 1.75 | 2.00 | 2.25 | 1.00 | 1.25 |
| ES107CS | C113 | Programming for problem Solving | 0.50 | 0.75 | 0.50 | 0.50 | 1.25 | 1.25 | 0.75 | 0 | 1.50 | 0 | 0.75 | 2.00 |
| BS153CH | C114 | Chemistry Lab | 1.00 | 1.33 | 3.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 1.00 |
| ES155CS | C115 | Programming for problem Solving Lab | 0.50 | 0.75 | 0.50 | 0.50 | 1.25 | 1.25 | 0.75 | 0 | 1.50 | | 0.75 | 2.00 |
| ES157ME | C116 | Workshop / Manufacturing Process | 3.00 | 2.75 | 1.75 | 2.00 | 1.25 | 1.25 | 1.00 | 0.00 | 2.75 | 0.00 | 0.00 | 3.00 |
| HS101EG | C121 | English | 1.67 | 1.00 | 1.33 | 1.33 | 1.00 | 1.50 | 1.25 | 1.67 | 1.25 | 2.25 | 1.50 | 1.75 |
| BS103MT | C122 | Mathematics - II | 3.00 | 2.50 | 2.00 | 1.00 | 1.67 | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 1.75 |
| BS104PH | C123 | Physics | 2.00 | 1.00 | 0.00 | 1.50 | 0.00 | 1.00 | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 1.50 |
| | C124 | Indian Constitution | 2.33 | 2.33 | 1.67 | 1.67 | 1.67 | 1.50 | 1.75 | 1.67 | 1.50 | 2.25 | 1.50 | 1.75 |
| ES106EE | C125 | Basic Electrical Engineering | 1.75 | 1.75 | 1.25 | 1.75 | 1.75 | 1.50 | 1.50 | 0 | 1.75 | 1.00 | 1.33 | 2.50 |
| HS151EG | C126 | English Lab | 0.50 | 0.75 | 0.50 | 0.50 | 1.25 | 1.25 | 0.75 | 1.25 | 1.50 | 2.75 | 0.75 | 2.00 |
| BS152PH | C127 | Physics Lab | 1.33 | 1.50 | 1.50 | 1.00 | 1.50 | 1.00 | 2.00 | 1.50 | 2.00 | 1.00 | 1.00 | 1.00 |
| ES154EE | C128 | Basic Electrical Engineering Lab | 1.75 | 1.75 | 1.25 | 1.75 | 1.75 | 1.50 | 1.50 | 0 | 1.75 | 1.00 | 1.33 | 2.50 |
| ES156CE | C129 | Engineering Graphics & Design | 0.50 | 0.75 | 0.50 | 0.50 | 0.75 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ES216EC | C211 | Digital Electronics | 3.00 | 3.00 | 2.00 | 2.00 | 2.50 | 1.50 | 2.67 | 0.00 | 1.50 | 1.50 | 2.00 | 3.00 |
| PC221CS | C212 | Data Structures and Algorithm | 1.65 | 1.75 | 1.31 | 1.31 | 1.63 | 1.33 | 2.06 | 0.00 | 1.75 | 1.17 | 1.44 | 2.17 |
| HS204ME | C213 | Operation Research | 2.50 | 2.25 | 2.00 | 2.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.33 | 1.33 | 1.00 | 2.00 |
| ES214EC | C214 | Basic Electronics | 2.25 | 1.5 | 2 | 2 | 1.5 | 1.5 | 2.3 | 0 | 1.5 | 1.3 | 1.5 | 2 |
| PC222CS | C215 | Discrete Mathematics | 2.50 | 2.00 | 2.00 | 2.25 | 1.00 | 1.00 | 1.00 | 0 | 1.50 | 1.50 | 1.00 | 1.50 |
| PC223CS | C216 | Programming Language | 2.00 | 1.75 | 2.25 | 1.25 | 2.00 | 2.50 | 1.75 | 0.00 | 2.00 | 0.00 | 1.67 | 2.00 |
| PC252CS | C217 | Data Structures Algorithm Lab | 2.25 | 1.75 | 1.75 | 1.75 | 1.67 | 2.00 | 1.67 | 0.00 | 2.67 | 0.00 | 2.00 | 1.67 |
| PC253CS | C218 | Advanced Computer Skills Lab | 2.50 | 2.75 | 1.75 | 1.67 | 1.25 | 1.25 | 1.25 | 0.00 | 2.75 | 0.00 | 0.00 | 3.00 |
| ES251EC | C219 | Basic Electronics Lab | 1.75 | 1.50 | 1.33 | 1.50 | 1.50 | 3.00 | 1.67 | 0.00 | 2.00 | 0.00 | 2.00 | 1.50 |
| PC232CS | C221 | Computer Organization | 3.00 | 2.00 | 1.50 | 1.00 | 1.00 | 2.00 | 2.00 | 0.00 | 0.00 | 0.00 | 1.33 | 2.00 |
| HS202CM | C222 | Finance and Accounting | 1.33 | 1.25 | 1.75 | 1.00 | 1.00 | 2.00 | 1.00 | 1.50 | 2.25 | 1.50 | 2.50 | 1.50 |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ES215EC | C223 | Signals & System | 2.00 | 1.75 | 1.50 | 1.33 | 2.00 | 1.50 | 2.33 | 0.00 | 1.33 | 1.33 | 1.50 | 2.00 |
| PC233CS | C224 | Database Management System | 2.00 | 2.00 | 2.00 | 1.50 | 2.00 | 2.00 | 2.00 | 0 | 2.00 | 2.00 | 2.00 | 1.67 |
| PC231CS | C225 | OOPS Using Java | 2.75 | 2.50 | 2.50 | 1.75 | 1.75 | 1.75 | 0.00 | 0.00 | 2.00 | 0.00 | 2.00 | 1.75 |
| HS201EG | C226 | Effective Tech CommIn English | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.33 | 1.00 | 1.00 | 1.00 | 1.50 | 1.00 | 1.33 |
| BS207MT | C227 | Mathematics III | 2.50 | 2.50 | 1.75 | 2.00 | 1.67 | 1.50 | 1.50 | 0 | 2.00 | 1.67 | 1.50 | 1.75 |
| PC261CS | C228 | Computer Organization Lab | 2.50 | 2.75 | 1.75 | 1.67 | 1.25 | 1.25 | 1.00 | 0.00 | 2.75 | 0.00 | 0.00 | 3.00 |
| PC263CS | C229 | Data Base Management Lab | 2.25 | 1.75 | 1.75 | 1.75 | 1.67 | 2.00 | 1.67 | 0.00 | 2.67 | 0.00 | 2.00 | 1.67 |
| PC262CS | C220 | OOPS Using Java Lab | 2.00 | 1.75 | 1.67 | 1.67 | 1.33 | 2.00 | 1.67 | 0.00 | 2.67 | 0.00 | 2.00 | 2.00 |
| CS501PC | C311 | FLAT | 2.50 | 2.00 | 1.50 | 2.00 | 1.00 | 1.00 | 2.50 | 2.00 | 2.00 | 1.50 | 1.00 | 2.50 |
| CS502PC | C312 | Software Engineering | 3.00 | 2.00 | 1.50 | 2.00 | 1.50 | 1.50 | 1.00 | 0.00 | 1.00 | 0.00 | 1.67 | 2.25 |
| CS503PC | C313 | Computer Networks | 3.00 | 2.00 | 1.50 | 1.00 | 1.50 | 1.00 | 1.50 | 0.00 | 2.00 | 0.00 | 2.00 | 1.00 |
| CS504PC | C314 | Web Technologies | 2.00 | 2.00 | 1.50 | 1.50 | 1.00 | 1.00 | 1.50 | 0.00 | 2.00 | 1.50 | 0.00 | 2.75 |
| MC510 | C315 | Intellectual Property Rights | 2.00 | 2.00 | 1.50 | 1.00 | 2.00 | 1.00 | 1.50 | 0.00 | 2.00 | 1.50 | 0.00 | 2.75 |
| CS521PE | C316 | Computer Graphics | 3.00 | 2.00 | 1.50 | 1.00 | 1.00 | 2.00 | 2.00 | 1.00 | 1.00 | 1.00 | 1.33 | 2.00 |
| CS515PE | C317 | Principles of Programming Language | 2.00 | 2.00 | 1.50 | 1.00 | 2.00 | 1.00 | 1.50 | 0.00 | 2.00 | 1.50 | 0.00 | 2.75 |
| CS506PC | C318 | CN & WT Lab | 3.00 | 1.75 | 3.00 | 1.00 | 2.75 | 1.00 | 1.00 | 0.00 | 1.33 | 0.00 | 1.00 | 1.75 |
| EN508HS | C319 | Advanced Communication Skills Lab | 2.33 | 2.50 | 2.50 | 3.00 | 3.00 | 3.00 | 2.50 | 0.00 | 2.00 | 1.33 | 0.00 | 2.00 |
| CS505PC | C3110 | Software Engineering Lab | 2.33 | 2.00 | 1.50 | 0.75 | 1.13 | 0.00 | 0.75 | 0.00 | 2.25 | 1.13 | 1.50 | 1.50 |
| CS601PC | C321 | Cyber Security | 1.50 | 2.00 | 2.00 | 2.00 | 1.00 | 2.00 | 1.00 | 0.00 | 3.00 | 3.00 | 2.00 | 1.00 |
| CS602 PC | C322 | Compiler Design | 2.75 | 3.00 | 2.50 | 2.50 | 2.25 | 0.00 | 1.50 | 0.00 | 1.67 | 0.00 | 1.00 | 2.75 |
| CS603PC | C323 | DAA | 3.00 | 2.67 | 2.00 | 1.00 | 1.00 | 1.00 | 1.50 | 0.00 | 1.50 | 0.00 | 1.50 | 3.00 |
| CS601PC | C324 | Machine Learning | 3.00 | 2.00 | 3.00 | 0.00 | 2.00 | 2.00 | 1.00 | 0.00 | 2.00 | 3.00 | 2.00 | 3.00 |
| CS615PE | C325 | STM | 3.00 | 2.00 | 3.00 | 0.00 | 2.00 | 2.00 | 0.00 | 0.00 | 2.00 | 3.00 | 2.00 | 3.00 |
| CS604PC | C326 | DPPM | 2.00 | 2.00 | 0.00 | 0.00 | 0.00 | 1.00 | 1.50 | 3.00 | 2.00 | 1.50 | 0.00 | 2.75 |
| CS605PC | C327 | Compiler Design Lab | 2.75 | 3.00 | 2.50 | 2.50 | 2.25 | 0.00 | 1.50 | 0.00 | 1.67 | 0.00 | 0.00 | 2.75 |
| CS604PC | C328 | Machine Learning Lab | 3.00 | 2.00 | 3.00 | 0.00 | 2.00 | 2.00 | 0.00 | 0.00 | 2.00 | 3.00 | 2.00 | 3.00 |
| CS615PE | C329 | STM Lab | 2.50 | 1.67 | 1.50 | 1.00 | 3.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CS701PC | C411 | Data Mining | 3.00 | 1.75 | 3.00 | 1.00 | 2.75 | 0.00 | 1.00 | 3.00 | 1.33 | 0.00 | 1.00 | 1.75 |
| CS702PC | C412 | Principles of Programming Language | 2.00 | 1.00 | 1.50 | 2.00 | 1.00 | 3.00 | 0.00 | 0.00 | 2.00 | 1.33 | 1.00 | 1.50 |
| CS721PE | C413 | Python Programming | 2.25 | 2.00 | 2.25 | 1.75 | 1.75 | 2.00 | 0.00 | 2.25 | 2.00 | 2.00 | 2.00 | 2.00 |
| CS734PE | C414 | Software Process and Project Management | 2 | 2.33 | 2 | 1.67 | 2 | 2 | 0 | 2 | 1.5 | 1.33 | 1.25 | 2 |
| CS743PE | C415 | Blockchain Technology | 2.50 | 2.50 | 2.00 | 2.75 | 2.00 | 2.00 | 2.00 | 0.00 | 1.25 | 0.00 | 1.00 | 1.25 |
| CS703PC | C416 | Data Mining Lab | 3.00 | 3.00 | 3.00 | 3.00 | 2.00 | 0.00 | 0.00 | 0.00 | 3.00 | 0.00 | 2.00 | 2.50 |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CS751PC | C417 | Python Programming Lab | 1.75 | 2.00 | 2.00 | 1.50 | 2.50 | 1.75 | 2.50 | 0.00 | 2.00 | 1.50 | 2.00 | 1.50 |
| CS705PC | C418 | Industry Oriented Mini Project | 2.50 | 2.50 | 2.00 | 2.75 | 2.00 | 1.75 | 0.00 | 0.00 | 1.67 | 2.00 | 1.75 | 1.25 |
| CS706PC | C419 | Seminar | 2.50 | 2.50 | 2.00 | 2.75 | 2.00 | 2.00 | 1.00 | 0.00 | 1.67 | 0.00 | 1.75 | 1.25 |
| CE833OE | C421 | Environmental Impact Assessment | 2.31 | 2.00 | 1.78 | 1.50 | 1.45 | 1.98 | 1.00 | 1.80 | 2.50 | 1.50 | 2.00 | 2.50 |
| CS862PE | C422 | Modern Software Engineering | 1.71 | 2.31 | 2.40 | 1.67 | 2.09 | 1.90 | 1.89 | 2.05 | 1.45 | 2.31 | 2.30 | 1.56 |
| CS864PE | C423 | Computer Forensics | 2.67 | 2.67 | 2.00 | 2.33 | 1.33 | 1.67 | 0.00 | 0.00 | 1.50 | 1.50 | 1.50 | 1.75 |
| CS801PC | C424 | Major Project | 2.00 | 1.75 | 2.00 | 2.25 | 2.67 | 1.00 | 2.00 | 1.00 | 2.00 | 0.00 | 1.00 | 2.25 |
| | | TOTAL | 145.92 | 130.6 | 119.74 | 99.40 | 106.54 | 95.72 | 80.45 | 0 | 114.46 | 64.77 | 77.91 | 129.56 |
| | | AVERAGE | 2.18 | 1.95 | 1.84 | 1.58 | 1.64 | 1.60 | 1.49 | 0 | 1.82 | 1.70 | 1.53 | 1.99 |

**PO Attainment Level**

| Course | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CO Attainment | **2.18** | **1.95** | **1.84** | **1.58** | **1.64** | **1.60** | **1.49** | **0** | **1.82** | **1.70** | **1.53** | **1.99** |
| Direct Attainment | **1.83** | **1.61** | **1.53** | **1.38** | **1.32** | **1.39** | **1.33** | **1.72** | **1.57** | **1.41** | **1.42** | **1.61** |
| Indirect Attainment | 1.94 | 1.87 | 1.72 | 1.76 | 1.78 | 1.58 | 1.56 | 1.42 | 1.76 | 1.50 | 1.62 | 1.77 |

PSO Attainment

| Course | PSO1 | PSO2 | PSO3 |
|---|---|---|---|
| C111 | 1.75 | 1 | 0.00 |
| C112 | 0 | 0 | 1 |
| C113 | 1.25 | 2 | 1.33 |
| C113 | 1.25 | 0.75 | 1.5 |
| C114 | 0 | 0 | 1 |
| C115 | 1.25 | 0.75 | 1.5 |
| C116 | 1.00 | 1.00 | 1.33 |
| C121 | 1 | 1 | 0 |
| C122 | 1.00 | 2.00 | 0.00 |
| C123 | 1.00 | 1.00 | 1.00 |

| | | | |
|---|---|---|---|
| C124 | 2.00 | 2.00 | 0.00 |
| C125 | 1.00 | 0.00 | 0.00 |
| C126 | 1.25 | 0.75 | 1.5 |
| C127 | 1.3 | 1.5 | 1 |
| C128 | 1.00 | 0.00 | 0.00 |
| C129 | 0.75 | 0.50 | 0.00 |
| C211 | 2.00 | 2.00 | 2.00 |
| C212 | 1.2 | 1.3 | 1.5 |
| C213 | 1.25 | 1.50 | 1.00 |
| C214 | 2 | 1.75 | 1.75 |
| C215 | 2.25 | 2.25 | 2.50 |
| C216 | 1.33 | 2.00 | 1.50 |
| C217 | 1.75 | 2.00 | 2.00 |
| C218 | 1.00 | 1.00 | 1.33 |
| C219 | 1.75 | 1.50 | 2.00 |
| C221 | 1.00 | 1.50 | 1.00 |
| C222 | 1 | 1.5 | 1.33 |
| C223 | 1.75 | 1.75 | 1.75 |
| C224 | 2.00 | 2.00 | 2.00 |
| C225 | 2 | 1.75 | 2 |
| C226 | 1.00 | 0 | 1.00 |
| C227 | 1.00 | 2.00 | 1.50 |
| C228 | 1.00 | 1.00 | 1.33 |
| C229 | 1.75 | 2.00 | 2.00 |
| C220 | 1.67 | 2.00 | 2.00 |
| C311 | 2.00 | 2.00 | 2.00 |
| C312 | 1.33 | 3.00 | 2.00 |
| C313 | 1.00 | 1.00 | 2.00 |
| C314 | 3.00 | 3.00 | 1.50 |
| C315 | 3.00 | 3.00 | 1.50 |
| C316 | 1.00 | 2.00 | 1.00 |
| C317 | 3.00 | 3.00 | 1.50 |
| C318 | 1.33 | 3.00 | 1.00 |

| | | | |
|---|---|---|---|
| C319 | 1.33 | 2.50 | 1.50 |
| C3110 | 1.50 | 1.50 | 1.13 |
| C321 | 1.00 | 2.00 | 1.00 |
| C322 | 3.00 | 2.67 | 2.00 |
| C323 | 1.67 | 2.00 | 1.00 |
| C324 | 2.33 | 2.75 | 2.50 |
| C325 | 1.00 | 2.00 | 1.00 |
| C326 | 3.00 | 3.00 | 1.50 |
| C327 | 3.00 | 2.67 | 2.00 |
| C328 | 2.33 | 2.75 | 2.50 |
| C329 | 1.33 | 3.00 | 2.00 |
| C411 | 1.33 | 3.00 | 2.00 |
| C412 | 1.33 | 2.50 | 0.00 |
| C413 | 2.00 | 2.00 | 2.00 |
| C414 | 2.00 | 2.00 | 2.00 |
| C415 | 1.50 | 2.00 | 1.25 |
| C416 | 1.33 | 3.00 | 2.00 |
| C417 | 2.25 | 1.75 | 2.75 |
| C418 | 1.50 | 2.00 | 1.25 |
| C419 | 1.50 | 2.00 | 1.25 |
| C421 | 1.33 | 3.00 | 2.00 |
| C422 | 1.90 | 2.10 | 1.45 |
| C423 | 1.75 | 2.00 | 1.75 |
| C424 | 1.33 | 3.00 | 2.00 |
| Total | 103.84 | 122.27 | 94.99 |
| Average | 1.60 | 1.97 | 1.61 |

**PSO Attainment Level**

| Course | PSO1 | PSO2 | PSO3 |
|---|---|---|---|
| CO Attainment | 1.60 | 1.97 | 1.61 |
| Direct Attainment | 1.45 | 1.68 | 1.34 |
| Indirect Attainment | 1.72 | 1.79 | 1.65 |

## 4 STUDENTS' PERFORMANCE (150)

Total Marks 101.87

**Table 4.1**

| Item (Information to be provided cumulatively for all the shifts with explicit headings, wherever applicable) | 2021-22(CAY) | 2020-21 (CAYm1) | 2019-20 (CAYm2) | 2018-19 (CAYm3) | 2017-18(CAYm4) | 2016-17(CAYm5) | 2015-16(CAYm6) | 2014-15 (CAYm7) | 2013-14 (CAYm8) |
|---|---|---|---|---|---|---|---|---|---|
| Sanctioned intake of the program(N) | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 |
| Total number of students admitted in first year minus number of students migrated to other programs/ institutions plus<br>No. of students migrated to this program (N1) | 58 | 60 | 60 | 59 | 60 | 59 | 54 | 30 | 55 |
| Number of students admitted in 2nd year in the same batch via lateral entry (N2) | 6 | 6 | 6 | 1 | 0 | 0 | 0 | 1 | 0 |
| Separate division students, If applicable (N3) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total number of students admitted in the programme (N1 + N2 + N3) | 64 | 66 | 66 | 60 | 60 | 59 | 54 | 31 | 55 |

**Table 4.2**

| Year of entry | Total No of students admitted in the program (N1 + N2 +N3) | Number of students who have successfully graduated without backlogs in any semester/ year of study (Without Backlog means no compartment or failures in any semester/year of study) | | | |
|---|---|---|---|---|---|
| | | I year | II year | III year | IV year |
| 2021-22 (CAY) | 64 | 0 | 0 | 0 | 0 |
| 2020-21 (CAYm1) | 66 | 54 | 0 | 0 | 0 |
| 2019-20 (CAYm2) | 66 | 40 | 39 | 0 | 0 |
| 2018-19 (CAYm3) | 60 | 20 | 5 | 5 | 0 |
| 2017-18 (CAYm4) | 60 | 9 | 4 | 4 | 1 |
| 2016-17 (CAYm5) | 59 | 1 | 1 | 1 | 0 |
| 2015-16 (LYG) | 54 | 6 | 5 | 5 | 5 |
| 2014-15 (LYGm1) | 31 | 1 | 1 | 1 | 1 |

**Table 4.3**

| Year of entry | Total No of students admitted in the program (N1 + N2 + N3) | Number of students who have successfully graduated in stipulated period of study)[Total of with Backlog + without Backlog] | | | |
|---|---|---|---|---|---|
| | | I year | II year | III year | IV year |
| 2021-22 (CAY) | 64 | 0 | 0 | 0 | 0 |
| 2020-21 (CAYm1) | 66 | 58 | 56 | 0 | 0 |
| 2019-20 (CAYm2) | 66 | 40 | 39 | 38 | 0 |
| 2018-19 (CAYm3) | 60 | 53 | 53 | 50 | 0 |
| 2017-18 (CAYm3) | 60 | 52 | 50 | 40 | 0 |
| 2016-17 (CAYm5) | 59 | 26 | 26 | 26 | 22 |
| 2015-16 (LYG) | 54 | 44 | 44 | 44 | 30 |
| 2014-15 (LYGm1) | 31 | 30 | 30 | 30 | 25 |

**4.1 Enrolment Ratio** (20) Total Marks 20.00

| | N (From Table 4.1) | N1 (From Table 4.1) | Enrollment Ratio [(N1/N)*100] |
|---|---|---|---|
| 2021-22 (CAY) | 60 | 58 | 96.00 |
| 2020-21 (CAYm1) | 60 | 60 | 100.00 |
| 2019-20 (CAYm2) | 60 | 60 | 100.00 |
| 2018-19 (CAYm3) | 60 | 59 | 98.33 |

Average [ (ER1 + ER2 + ER3) / 3 ] : 98.66

Assessment : 20.00

**4.2 Success Rate in the stipulated period of the program** (40) Total Marks 12.55

**4.2.1 Success rate without backlogs in any semester / year of study** (25) Institute Marks : 1.25

| Item | Latest Year of Graduation, LYG(2017-18) | Latest Year of Graduation minus 1, LYG(2016-17) | Latest Year of Graduation minus 2, LYGm1(2015-16) | Latest Year of Graduation minus 2, LYGm3(2014-15) |
|---|---|---|---|---|
| X<br>Number of students admitted in the corresponding First year + admitted in 2nd year via lateral entry and separated division, if applicable | 60.00 | 59.00 | 54.00 | 31.00 |

| | | | | |
|---|---|---|---|---|
| Y<br>Number of students who have graduated without backlogs in the stipulated period | 6.00 | 6.00 | 5.00 | 1.00 |
| Success Index [ SI = Y / X ] | 0.1 | 0.1 | 0.09 | 0.03 |

Average SI [ (SI1 + SI2 + SI3) / 3 ] : 0.09

Assessment [25 * Average SI] : 2.25

**4.2.2 Success rate in stipulated period** (15)

Institute Marks : 11.30

| Item | Latest Year of Graduation, LYG (2017-18) | Latest Year of Graduation minus 1, LYG (2016-17) | Latest Year of Graduation minus 2, LYGm1 (2015-16) | Latest Year of Graduation minus 2, LYGm3 (2014-15) |
|---|---|---|---|---|
| X<br>Number of students admitted in the corresponding First year + admitted in 2nd year via lateral entry and separated division, if applicable | 60.00 | 59.00 | 54.00 | 31.00 |
| Y<br>Number of students who have graduated in the stipulated period | 46.00 | 32.00 | 30.00 | 25.00 |
| Success Index [ SI = Y / X ] | 0.76 | 0.54 | 0.56 | 0.81 |

Average SI[ ( SI1 + SI2 + SI3) / 3 ]: 0.63

Assessment [15 * Average SI] : 9.45

**Note :** If 100% students clear without any backlog then also total marks scored will be 40 as both 4.2.1 & 4.2.2 will be applicable simultaneously.

**4.3 Academic Performance in Third Year** (15)

Total Marks 11.46

Institute Marks : 11.46

| Academic Performance | CAYm(2018-19) | CAYm1 (2018-19) | CAYm2 (2017-18) | CAYm3 (2016-17) |
|---|---|---|---|---|
| Mean of CGPA or mean percentage of all successful students(X) | | 8.26 | 7.79 | 8.14 |
| Total number of successful students(Y) | | 67.00 | 47.00 | 42.00 |
| Total number of students appeared in the examination(Z) | | 67.00 | 47.00 | 42.00 |
| API [ X*(Y/Z) ]: | | 8.26 | 7.79 | 8.14 |

Average API [ (AP1 + AP2 + AP3)/3 ] : 8 .06

Assessment [1.5 * Average API] : 12.095

**4.4 Academic Performance in Second Year** (15)

Total Marks 10.66

Institute Marks : 10.66

| Academic Performance | CAY(2018-19) | CAYm1 (2018-19) | CAYm2 (2017-18) | CAYm3 (2016-17) |
|---|---|---|---|---|
| Mean of CGPA or mean percentage of all successful students(X) | 8.5 | 8.68 | 8.33 | 6.27 |

| | | | | |
|---|---|---|---|---|
| Total number of successful students (Y) | 60 | 67.00 | 47.00 | 42.00 |
| Total number of students appeared in the examination (Z) | 60 | 67.00 | 47.00 | 42.00 |
| API [ X * (Y/Z) ] | 8.5 | 8.68 | 8.01 | 6.27 |

Average API [ (AP1 + AP2 + AP3)/3 ] : 7.653

Assessment [ 1.5 * Average API ] : 11.48

**4.5 Placement, Higher Studies and Entrepreneurship** (40)

Total Marks 27.20

Institute Marks : 27.20

| **Item** | **LYG (2017-18) P1** | **LYG (2016-17) P2** | **LYGm1 (2015-16) P3** |
|---|---|---|---|
| Total No of Final Year Students(N) | 47.00 | 36.00 | 44.00 |
| No of students placed in the companies or government sector(X) | 36.00 | 20.00 | 18.00 |
| No of students admitted to higher studies with valid qualifying scores(GATE or equivalent State or National Level tests, GRE, GMAT etc.) (Y) | 7.00 | 6.00 | 6.00 |
| No of students turned entrepreneur in engineering/technology (Z) | 1.00 | 1.00 | 1.00 |
| x + y + z = | 44.00 | 27.00 | 25.00 |
| Placement Index [ (X+Y+Z)/N ] : | 0.93 | 0.75 | 0.57 |

Average Placement [ (P1 + P2 + P3)/3 ]: 0.75 Assessment [ 40 * Average Placement] : **30**

**Program Name :**
**Assessment Year Name : CAY**

| S.No | Roll Number | Candidate Name | Company | Reference Number | Designation | Salary Package |
|---|---|---|---|---|---|---|
| 1 | 17RT1A0509 | MOHAMMED ABDUL QAVI | Euthissa Care Technology Pvt Ltd | ECT/NSAKCET/M754 | Assistant Software Developer | Rs: 2,50,000/- per annum |
| 2 | 17RT1A0532 | Mohd Asfaar uddin | Euthissa Care Technology Pvt Ltd | ECT/NSAKCET/M757 | Assistant Software Developer | Rs: 2,50,000/- per annum |

| | | | | | | |
|---|---|---|---|---|---|---|
| 3 | 17RT1A0538 | Mohsin Syed Hussain | Euthissa Care Technology Pvt Ltd | ECT/NSAKCET/M758 | Assistant Software Developer | Rs: 2,50,000/- per annum |
| 4 | 17RT1A0543 | Saifan khan | Euthissa Care Technology Pvt Ltd | ECT/NSAKCET/S761 | Assistant Software Developer | Rs: 2,50,000/- per annum |
| 5 | 17RT1A0549 | SYED KHADEER PASHA | Euthissa Care Technology Pvt Ltd | ECT/NSAKCET/S763 | Assistant Software Developer | Rs: 2,50,000/- per annum |
| 6 | 18RT5A0501 | MOHAMMED NIYAMATH KHAN | Euthissa Care Technology Pvt Ltd | ECT/NSAKCET/M755 | Assistant Software Developer | Rs: 2,50,000/- per annum |
| 7 | 17RT1A0527 | Mohammed Wasif | Euthissa Care Technology Pvt Ltd | ECT/NSAKCET/M756 | Assistant Software Developer | Rs: 2,50,000/- per annum |
| 8 | 17RT1A0501 | Abdul Arbaaz | Pie Infocomm | PIE/JSD/NSAK1001 | Junior Software Developer | Rs: 4,50,000/- per annum |
| 9 | 17RT1A0507 | MD Waseem Akram | Pie Infocomm | PIE/JSD/NSAK1007 | Junior Software Developer | Rs: 4,50,000/- per annum |
| 10 | 17RT1A0511 | Mohammed Aleemuddin | Pie Infocomm | PIE/JSD/NSAK1011 | Junior Software Developer | Rs: 4,50,000/- per annum |
| 11 | 17RT1A0508 | Mohammed Imran | Path Creators Solutions Pvt. Ltd | PCSTECH/HYD0608 | Network (Analyst-DC-Ops) | Rs: 2,70,000/- per annum |
| 12 | 17RT1A0512 | Mohammed Anwar Shareef | Path Creators Solutions Pvt. Ltd | PCSTECH/HYD0612 | Network (Analyst-DC-Ops) | Rs: 2,70,000/- per annum |
| 13 | 17RT1A0514 | Mohd Ata Ur Rahman | Unisys | HR/UNISYS/14/2021 | Associate Application Test Engineer | Rs: 4,80,000/- per annum |
| 14 | 17RT1A0521 | Mohammed Naveed Uddin | Unisys | HR/UNISYS/21/2021 | Associate Application Test Engineer | Rs: 4,80,000/- per annum |
| 15 | 17RT1A0547 | Shaik Aslam | Unisys | HR/UNISYS/47/2021 | Associate Application Test Engineer | Rs: 4,80,000/- per annum |
| 16 | 17RT1A0559 | Mohammed Furkhan Ahmed | Unisys | HR/UNISYS/59/2021 | Associate Application Test Engineer | Rs: 4,80,000/- per annum |

| | | | | | | |
|---|---|---|---|---|---|---|
| 17 | 17RT1A0554 | Syeda Kaunain Fatima | Verinite Technologies Pvt Ltd | VTPL/SA2021/1107 | Software Associate | Rs: 3,00,000/- per annum |
| 18 | 17RT1A0555 | Tayyab Begum | Verinite Technologies Pvt Ltd | VTPL/SA2021/1109 | Software Associate | Rs: 3,00,000/- per annum |
| 19 | 17RT1A0521 | Mohammed Muzammil | Demand Farm | SA/NSAKCET24/2021 | Solutions Engineer | Rs: 4,80,000/- per annum |
| 20 | 17RT1A0531 | Mohd Arsalaan Uddin Ahmed | Demand Farm | SA/NSAKCET31/2021 | Solutions Engineer | Rs: 4,80,000/- per annum |
| 21 | 17RT1A0553 | Syed Zubair Ahmed | Demand Farm | SA/NSAKCET53/2021 | Solutions Engineer | Rs: 4,80,000/- per annum |
| 22 | 17RT1A0534 | MOHD FAIZAN | Euthissa Care Technology Pvt Ltd | ECT/NSAKCET/M734 | Assistant Software Developer | Rs: 2,50,000/- per annum |
| 23 | 17RT1A0536 | MOHD MANSOOR SOFI | Euthissa Care Technology Pvt Ltd | ECT/NSAKCET/M736 | Assistant Software Developer | Rs: 2,50,000/- per annum |
| 24 | 17RT1A0539 | NABEEL KHAN | Euthissa Care Technology Pvt Ltd | ECT/NSAKCET/M739 | Assistant Software Developer | Rs: 2,50,000/- per annum |
| 25 | 17RT1A0540 | NASRIN BANU | Euthissa Care Technology Pvt Ltd | ECT/NSAKCET/S740 | Assistant Software Developer | Rs: 2,50,000/- per annum |
| 26 | 17RT1A0541 | QAMAR BEGUM | Euthissa Care Technology Pvt Ltd | ECT/NSAKCET/S741 | Assistant Software Developer | Rs: 2,50,000/- per annum |
| 27 | 17RT1A0542 | QUDSIA FATIMA BAQRI | Euthissa Care Technology Pvt Ltd | ECT/NSAKCET/M742 | Assistant Software Developer | Rs: 2,50,000/- per annum |
| 28 | 17RT1A0544 | SANA BEGUM MOHD | Euthissa Care Technology Pvt Ltd | ECT/NSAKCET/M744 | Assistant Software Developer | Rs: 2,50,000/- per annum |
| 29 | 17RT1A0545 | **SANA HUSSAIN** | Pie Infocomm | PIE/JSD/NSAK1045 | Junior Software Developer | Rs: 4,50,000/- per annum |

| | | | | | | |
|---|---|---|---|---|---|---|
| 30 | 17RT1A0546 | **SARA FATIMA FAHEEM** | Pie Infocomm | PIE/JSD/NSAK1046 | Junior Software Developer | Rs: 4,50,000/- per annum |
| 31 | 17RT1A0556 | ZAIN BASHEER UDDIN | Pie Infocomm | PIE/JSD/NSAK1056 | Junior Software Developer | Rs: 4,50,000/- per annum |
| 32 | 17RT1A0548 | SUMAIYA KINZA | Path Creators Solutions Pvt. Ltd | PCSTECH/HYD0648 | Network (Analyst-DC-Ops) | Rs: 2,70,000/- per annum |
| 33 | 17RT1A0552 | SYED NOMAN ABRAR | Path Creators Solutions Pvt. Ltd | PCSTECH/HYD0652 | Network (Analyst-DC-Ops) | Rs: 2,70,000/- per annum |
| 34 | 17RT1A0550 | SYED KHAJA | Unisys | HR/UNISYS/50/2021 | Associate Application Test Engineer | Rs: 4,80,000/- per annum |
| 35 | 17RT1A0557 | MOHAMMED ABDUL SUFIYAN | Unisys | HR/UNISYS/57/2021 | Associate Application Test Engineer | Rs: 4,80,000/- per annum |
| 36 | 17RT1A0558 | MOHD ASJAD | Unisys | HR/UNISYS/58/2021 | Associate Application Test Engineer | Rs: 4,80,000/- per annum |

**Assessment Year Name : CAYm1**

| S.No | Roll Number | Candidate Name | Company Name | Reference Number |
|---|---|---|---|---|
| 1 | 16RT1A0501 | Abdul Abrar Salam Qureshi | nQuantum | NQSD/QT501/2020 |
| 2 | 16RT1A0505 | Habeeb Fatima | nQuantum | NQSD/QT505/2020 |
| 3 | 16RT1A0540 | Salma Begum | nQuantum | NQSD/QT540/2020 |
| 4 | 16RT1A0518 | Mohammed faiyaz | nQuantum | NQSD/QT518/2020 |
| 5 | 16RT1A0519 | Mohammed Fazil Quddus | nQuantum | NQSD/QT519/2020 |
| 6 | 16RT1A0523 | Mohammed Misbah Uddin | nQuantum | NQSD/QT523/2020 |
| 7 | 16RT1A0539 | Sabir Ahmed Chowdhary | nQuantum | NQSD/QT539/2020 |
| 8 | 16RT1A0550 | Syed Abdullah Alhasni | nQuantum | NQSD/QT550/2020 |
| 9 | 16RT1A0552 | Syed Aqib Uddin | nQuantum | NQSD/QT552/2020 |
| 10 | 16RT1A0557 | Syeda sumaiya saima | nQuantum | NQSD/QT557/2020 |
| 11 | 16RT1A0541 | Samar Shareef | Armentum | ARMKC/JWEBL10/2020 |

| | | | | |
|---|---|---|---|---|
| 12 | 16RT1A0524 | Mohammed Mohiuddin Siddiqui | Magneq Software | Trainee/MS0021/2021 |
| 13 | 16RT1A0529 | Mohammed Waheed ullah | Magneq Software | Trainee/MS0026/2021 |
| 14 | 16RT1A0534 | Mohd Ismail Ali | Magneq Software | Trainee/MS0028/2021 |
| 15 | 16RT1A0555 | Sultan Sultan Ahmed | nQuantum | NQSD/QT555/2020 |
| 16 | 16RT1A0544 | Shaik Aijaz | nQuantum | NQSD/QT544/2020 |
| 17 | 16RT1A0538 | Saba Begum | nQuantum | NQSD/QT538/2020 |
| 18 | 16RT1A0517 | Mohammed Bin Saleh Basalam | nQuantum | NQSD/QT517/2020 |
| 19 | 16RT1A0507 | M A Rahman Qureshi | nQuantum | NQSD/QT507/2020 |
| 20 | 16RT1A0514 | Mohammed Awaiz Ali | nQuantum | NQSD/QT514/2020 |

**Assessment Year Name : CAYm2**

| S.No | Student Name | Enrollment No | Employee Name | Appointment No |
|---|---|---|---|---|
| 1 | ABDAN ZAFAR BARKAATH | 15RT1A0501 | ABDAN ZAFAR BARKAATH | CS/OL/023/2019 |
| 2 | AFIF UNISSA BEGUM | 15RT1A0503 | AFIF UNISSA BEGUM | ITSC/GETOL1023/2019 |
| 3 | AMTULLA AFIFA MAHEEN | 15RT1A0506 | AMTULLA AFIFA MAHEEN | C4I/TSEOL/0022/2019 |
| 4 | HABEEB FATIMA | 15RT1A0509 | HABEEB FATIMA | GS/WD0024/2019 |
| 5 | KHAJA WALIUDDIN ADIL | 15RT1A0512 | KHAJA WALIUDDIN ADIL | GS/WD0025/2019 |
| 6 | MOHAMMAD BASIL MIRZA | 15RT1A0516 | MOHAMMAD BASIL MIRZA | CS/OL029/2019 |
| 7 | MOHAMMED ABDUL QADEER QURAISHI | 15RT1A0518 | MOHAMMED ABDUL QADEER QURAISHI | ITSC/GETOL1023/2019 |
| 8 | MOHAMMED AMANUDDIN | 15RT1A0520 | MOHAMMED AMANUDDIN | CSOL010/2019 |
| 9 | MOHAMMED SHAMAIR SHAREEF | 15RT1A0525 | MOHAMMED SHAMAIR SHAREEF | CSOL011/2019 |
| 10 | MOHAMMED UMAIR SHAREEF | 15RT1A0527 | MOHAMMED UMAIR SHAREEF | C4I/SE0040/2019 |
| 11 | MOHD NIZAMUDDIN | 15RT1A0528 | MOHD NIZAMUDDIN | C4I/SE0041/2019 |
| 12 | MOHD SAAD AHMED | 15RT1A0529 | MOHD SAAD AHMED | CS/OL026/2019 |
| 13 | MUJAHED ALI SHAH | 15RT1A0534 | MUJAHED ALI SHAH | C4I/TSEOL0023/2019 |
| 14 | SYED ABBU TURAB | 15RT1A0542 | SYED ABBU TURAB | CS/OL/028/2019 |
| 15 | SYED ZEESHAN | 15RT1A0549 | SYED ZEESHAN | C4I/TSEOL0021/2019 |

| | | | | |
|---|---|---|---|---|
| 16 | SYEDA NAILA IRFAN | 15RT1A0550 | SYEDA NAILA IRFAN | ITSC/GETOL1021/2019 |
| 17 | TABEEBA FATIMA | 15RT1A0551 | TABEEBA FATIMA | C4I/TSEOL0024/2019 |
| 18 | ZAIB UNNISA | 15RT1A0553 | ZAIB UNNISA | GS/WD0026/2019 |

**Assessment Year Name : CAYm3**

| S.No | Student Name | Enrollment No | Employee Name | Appointment No |
|---|---|---|---|---|
| 1 | JUWERIA FAROOQUI | 14RT1A0501 | JUWERIA FAROOQUI | CSOL15/2018 |
| 2 | SYED MUZAFFER ALI | 14RT1A0502 | SYED MUZAFFER ALI | CSOL12/2018 |
| 3 | SUMERA MAHEREEN | 14RT1A0503 | SUMERA MAHEREEN | C4I/SE0018/2018 |
| 4 | MOHD MAHMOODUULLAH KHAN | 14RT1A0505 | MOHD MAHMOODUULLAH KHAN | CSOL16/2018 |
| 5 | SYEDA AMREEN BANU | 14RT1A0507 | SYEDA AMREEN BANU | CSOL13/2018 |
| 6 | MD SAQUIB AHMED JUNIADI | 14RT1A0508 | MD SAQUIB AHMED JUNIADI | C4I/SE0019/2018 |
| 7 | S M AZAM AHMED | 14RT1A0514 | S M AZAM AHMED | SOLIXSOFTECH/HR/OL/SEP-19/NO.177 |
| 8 | NABIHA ALI | 14RT1A0520 | NABIHA ALI | CSOL17/2018 |
| 9 | MOHD ARBAZ UDDIN | 14RT1A0521 | MOHD ARBAZ UDDIN | C4I/SE0020/2018 |
| 10 | SYED MUBASHIR ALI RAZVI | 14RT1A0524 | SYED MUBASHIR ALI RAZVI | C4I/SE0021/2018 |
| 11 | MOHD UZAIR | 14RT1A0529 | MOHD UZAIR | SKH/SD1151/2018 |
| 12 | JAVAD KHAN | 14RT1A0527 | JAVAD KHAN | SKH/SD1152/2018 |
| 13 | HAJEERA NOUSHEEN | 14RT1A0526 | HAJEERA NOUSHEEN | SKH/SD1153/2018 |
| 14 | KHAJA GOUSEUDDIN | 14RT1A0512 | KHAJA GOUSEUDDIN | ITSC/TSFD1143/2018 |

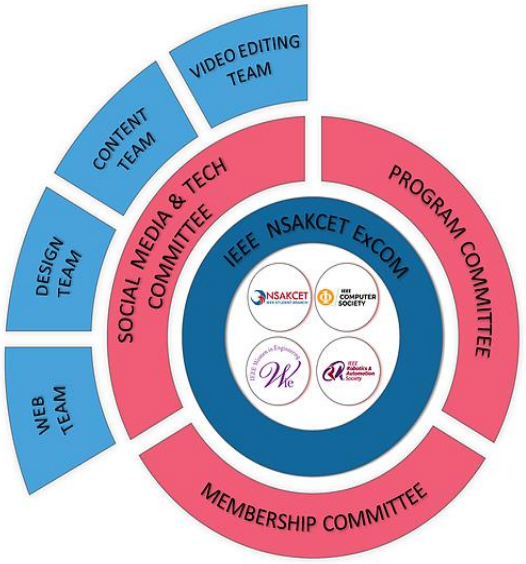
**4.6** **Professional Activities** (20)

Total Marks 20.00

**4.6.1** **Professional societies / chapters and organizing engineering events** (5)

Institute Marks : 5.00

**IEEE Student Branch of Nawab Shah Alam Khan College of Engineering and Technology** was established in March 2020. It is a student community that strives to inform, learn, entertain, and inspire action through the events and experiences we create. It promotes student empowerment, develop professional skills, and foster technological innovations and build networks. This community consists of amateurs to experts, who understand the potential of volunteering and how priceless volunteers are! The website link is https://www.ieeensakcet.com



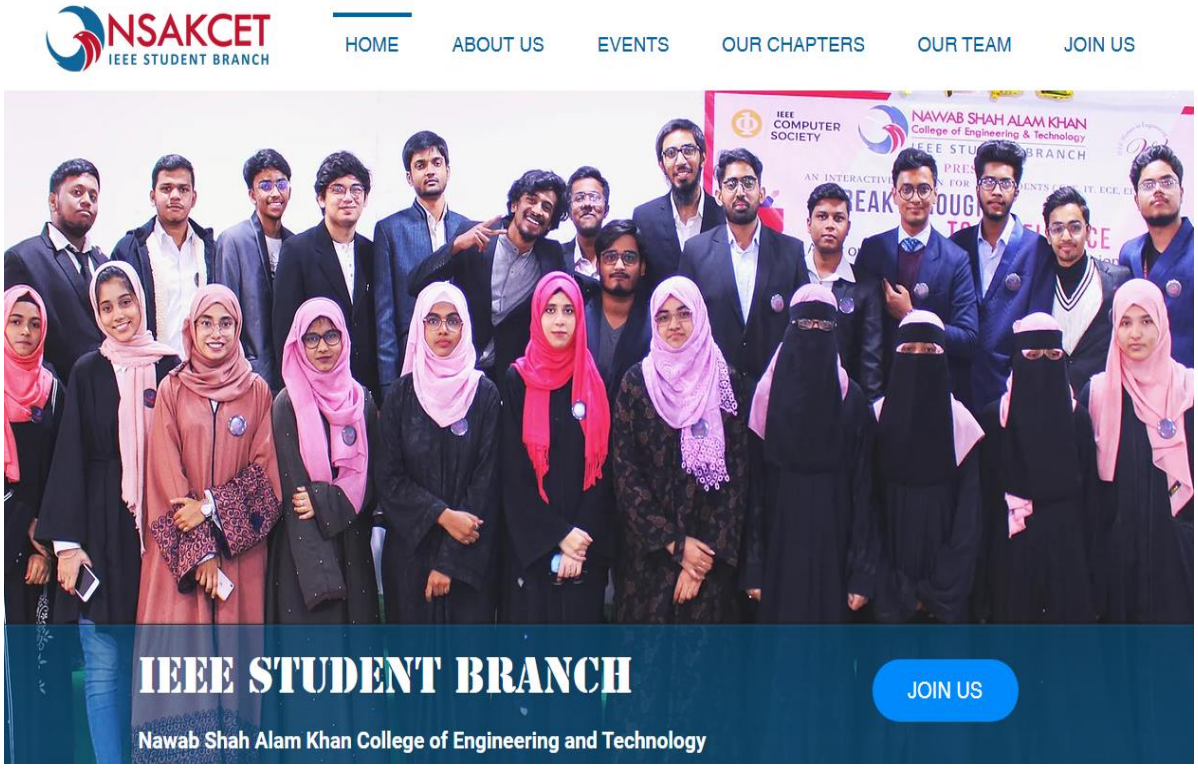

**Executive Committee (ExCOM)**

*Comprises of faculty advisors and core student members who hold officer positions and maintain the workflow.*

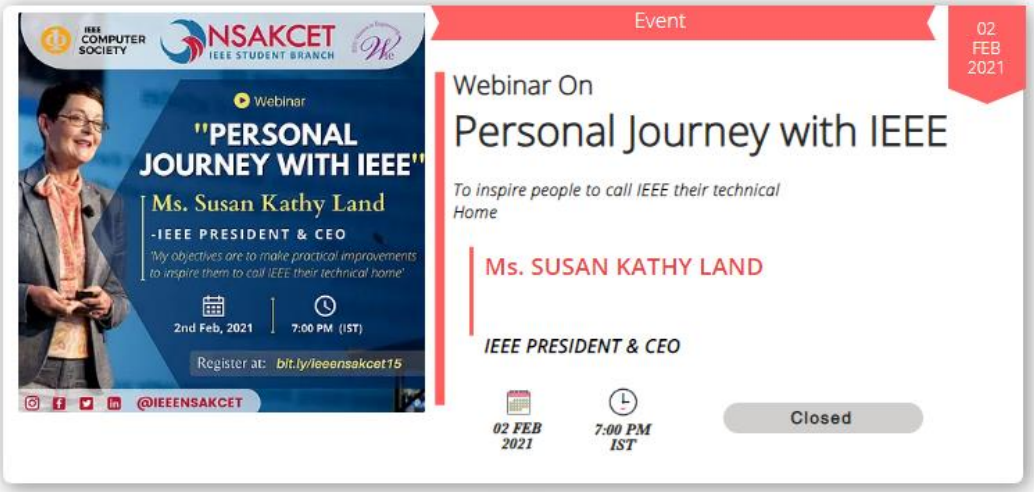
**Program Committee**

**Membership Committee**

**Social Media and Tech Committee**



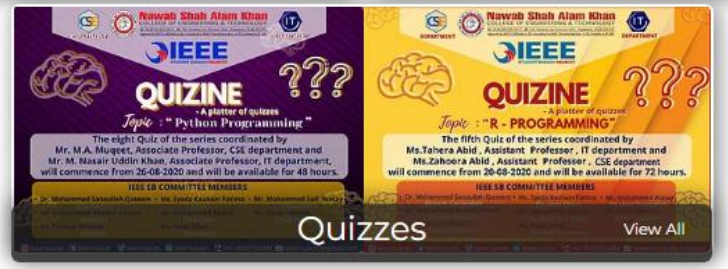
# LATEST EVENTS










# OUR CHAPTERS

IEEE COMPUTER SOCIETY

IEEE Women in Engineering

IEEE Robotics & Automation Society

| 40+ | 20+ | 5 | 3 |
|---|---|---|---|
| Student Members | Events | Professional Members | Chapters |

**Department of Computer Science & Engineering**

**List of Online events conducted by the department during the Pandemic during 2021-20**

| S.NO | NAME OF THE EVENT | DATE & YEAR |
|---|---|---|
| 1 | Webinar on Digital Marketing As A Career | 04 Jun 2021 |
| 2 | Webinar on Gender Barriers and Leadership | 12 Jun 2021 |
| 3 | Webinar on Insights on Data Science | 14 Jun 2021 |
| 4 | Webinar on Define Success for yourself and achieve it with High Performance Habits | 20 Jun 2021 |
| 5 | Webinar on How to start a career in cyber security and awareness on cyber crimes | 25 Jun 2021 |
| 6 | Webinar on Data Science Applications and Opportunities | 27 Jun 2021 |
| 7 | Webinar on Insights on Blockchain and Career Opportunities | 01 Jul 2021 |
| 8 | Webinar on An IoT Forecast That's Sunny And Clear (No Clouds) | 06 Jul 2021 |
| 9 | QUIZINE 2020 - A Platter of Quizzes \| E-Quiz#1 on "DATA STRUCTURES" | 08 Jul 2021 |
| 10 | QUIZINE 2020 - A Platter of Quizzes \| E-Quiz#2 on "BLOCKCHAIN TECHNOLOGY" | 15 Jul 2020 |
| 11 | QUIZINE 2020 - A Platter of Quizzes \| E-Quiz#3 on "ARTIFICIAL INTELLIGENCE" | 22 Jul 2020 |
| 12 | Webinar on Confidence and Procrastination | 24 Jul 2020 |
| 13 | WORLD LATEST DART HAND ON SESSION | 27 JULY 2020 |
| 14 | QUIZINE 2020 - A Platter of Quizzes \| E-Quiz#4 on "WEB TECHNOLOGIES & CYBER SECURITY" | 29 Jul 2020 |
| 15 | Webinar on Mechanical Engineering Challenges for the 21st Century | 05 Aug 2020 |
| 16 | EMERGING TRENDS IN COMPUTER SCIENCE AND APPLICATIONS | 05 TO 09 AUG 20 |
| 17 | QUIZINE 2020 - A Platter of Quizzes \| E-Quiz#5 on "C LANGUAGE" | 07 Aug 2020 |
| 18 | QUIZINE 2020 - A Platter of Quizzes \| E-Quiz#6 on "CONSTITUTION OF INDIA" | 12 Aug 2020 |
| 19 | Webinar on Entrepreneurship in the post covid world | 13 Aug 2020 |
| 20 | QUIZINE 2020 - A Platter of Quizzes \| E-Quiz#7 on "R PROGRAMMING" | 20 Aug 2020 |
| 21 | Webinar on 5G & 6G Service Network Outlook | 24 Aug 2020 |
| 22 | QUIZINE 2020 - A Platter of Quizzes \| E-Quiz#8 on "PYTHON PROGRAMMING" | 26 Aug 2020 |
| 23 | ARTIFICIAL intelligence USING PYTHON | 14 TO 19 SEPT 20 |
| 24 | Webinar on Extending your Reality - A conversation around XR and entrepreneurship | 27 Sep 2020 |
| 25 | WEB DEVELOPMENT | 13 DEC 2020 |
| 26 | Seminar on Breakthrough Excellence | 07 Jan 2021 |
| 27 | Webinar on Personal Branding, How to stand out and Differentiate yourself | 30 Jan 2021 |
| 28 | Webinar on Personal Journey with IEEE | 02 Feb 2021 |

**List of event conducted in college**

| S.NO | Name of the Event | Date | Year |
|---|---|---|---|
| 1 | Guest Lecture on Cloud Computing by Dr. P. V Sudha | Dec-16-2021 | 2021 |
| 2 | Webinar on Career Opportunity by Mr. Aravind Vorungati | Jan-1-2021 | 2021 |
| 3 | Techno vision 2020 | 26-02-2020 | 2020 |
| 4 | Career Guidance Workshop | 14-02-2020 | 2020 |
| 5 | Graduation day | 28-11-2019 | 2019 |
| 6 | Guest Lecture On “Machine Learning“ | 24-09-2019 | 2019 |
| 7 | One day workshop on<br>*Data science* using Machine learning and Python | 06-08-2019 | 2019 |
| 8 | CRT Program | 23-07-2019 | 2019 |
| 9 | C Programming | 15-02-2018<br>To<br>15-03-2018 | 2018 |
| 10 | Linux, Python and Free<br>Software | 27-07-2018<br>to<br>28-07-2018 | 2018 |
| 11 | Guest Lecture On<br>Database<br>Management Systems | 22-02-2018 | 2018 |
| 12 | Fundamental Of Andriod App development | 16-10-2017<br>To<br>17-1-2017 | 2017 |
| 13 | IT WORKSHOP | 07-03-2017<br>To<br>07-04-2017 | 2017 |
| 12 | C Programming | 3-02-2017<br>To<br>3-03-2017 | 2017 |
| 13 | 2-Days workshop on Android Development | 10/09/ 16<br><br>TO 11/9/16 | 2016 |
| 14 | Adobe Device Days (Mobile Application Workshop ) | 24/1/2014<br><br>TO 25/1/2014 | 2014 |
| 15 | Cyber Security Workshop | 10/9/2013<br>TO 11/9/2013 | 2013 |

**4.6.2**

**Publication of technical magazines, newsletters, etc.** (5)

Institute Marks : 5.00


DEBUG
COMPUTER SCIENCE ENGINEERING
DEPARTMENT MAGAZINE
2018-19
Nawab Shah Alam Khan
COLLEGE OF ENGINEERING & TECHNOLOGY


COMPUTER SCIENCE ENGINEERING DEPARTMENT
MAGAZINE
DEBUG
2019-20
Nawab Shah Alam Khan
COLLEGE OF ENGINEERING & TECHNOLOGY

# Nawab Shah Alam Khan
COLLEGE OF ENGINEERING & TECHNOLOGY

Approved by AICTE | Permitted by Govt. of Telangana | Affiliated to OU

EAMCET Code : NAWB | PGECET Code : NAWB1 | POLYCET Code : NAWB | ECET Code : NAWB

TECH DIARIES 2019 SEPTEMBER

## OUTSTANDING FEATURES

- College campus in city center
- Modern and beautiful buildings with an attractive elevation
- Digitally enabled spacious classrooms
- Beautifully landscaped Campus
- Well qualified, knowledgeable and experienced faculty
- Modern, well - equipped laboratories and Library.
- Modern English language lab equipped with self learning software
- High configuration, latest computer systems
- 100 Mbps dedicated bandwidth internet connection
- State-of-the-art seminar hall
- Full-fledged Training, Placements & Industrial Relations Department
- Effective "In - House Training" imparted to the students to make them industry ready.
- Regular guest lectures, FDP & workshops by dignitaries from corporate, companies, Industries & Academia
- Ample space and facilities to play indoor and outdoor games
- HT, dedicated 200KVA power generator
- ATMs & Bank Counter
- Disabled friendly campus
- Bus Depot, Railway Station & Metro Railway Station - 400 meters away.

TECH DIARIES 2019 SEPTEMBER

Nawab Shah Alam Khan
COLLEGE OF ENGINEERING & TECHNOLOGY
Approved by AICTE | Permitted by Govt. of Telangana | Affiliated to OU
EAMCET Code : NAWB | PGECET Code : NAWB1 | POLYCET Code : NAWB | ECET Code : NAWB

**Contact us:**
16-4-1/A, Subedar Ameer Ali Khan Road,
New Malakpet,Hyderabad - 500 024, Telangana, INDIA.
info@nsakcet.ac.in | www.nsakcet.ac.in | Ph : 040-2452 5075
Mobile : 98496 50796 | 98853 60757 | 79893 28768

**4.6.3** **Participation in inter-institute events by students of the program of study** (10) Institute
Marks : 10.00


**Participation in inter-institutes events by students of the program of study.**

| SI.NO. | NAME OF THE STUDENT | YEAR | ACHIEVEMENT |
|---|---|---|---|
| 1 | Mohammed Ata Ur Rahman Shahzad | 2021 | Certificate of participation for Accepted paper titled “Blockchain breakthrough in Education System – A proposed solution to the Pandemic problem“ in **International Conference on “Inter-disciplinary Academic Research and Innovation” (IARI) held on 11-7-2021**. |
| 2 | a) Intesar Hussain<br>b) Md Aftab Alam<br>c) Md Afzal Ali<br>d) Lubna Mushtaq<br>e) Saifan Khan | 2020 | Certificate of participation in HACK REVOLUTION |
| 3 | Md Aftab Alam | 2020 | Certificate of Appreciation. |
| 4 | a) Mohammed Altaf<br>b) Mohammed Inayath Ullah | 2019 | Certificate of Appreciation. |
| 5 | Mannan Nazeer | 2019 | Certificate of Appreciation. |
| 6 | Mohammed Khaja Moinuddin | 2019 | Certificate of Appreciation. |
| 7 | a) Mohd Faiyaz<br>b) Mohammed Abbas | 2018 | Certificate of participation in Block Chain,ALIENS FEST 3.0 |

| | | | |
|---|---|---|---|
| 8 | a) Mohd Faiyaz<br>b) Mohammed Abbas | 2018 | Certificate of participation in AI with ML workshop |
| 9 | Md. Sameer Quadri | 2018 | Certificate of participating in Android development workshop, NSAKCET. |
| 10 | Mannan Nazeer, Intesar Hussain<br>Aizaz Ahmed khan, Mohd Abdul<br>A. Majeed<br>M.A. Aqeeb<br>Javeed<br>Md Afzal Ali<br>Tarique Masood<br>Mohammed Arshad | 2017 | Certificate of Appreciation. |
| 11 | Mannan Nazeer | 2017 | Got 2nd prize in Technical Exhibition at NIET. |
| 12 | Intesar Hussain | 2017 | Got 1stprize in Technical Exhibition at NIET. |
| 14 | Md Aftab Alam | 2016 | Certificate of completion in Android development workshop |
| 15 | Mannan Nazeer | 2016 | Certificate of Appreciation of Two day workshop on Applications of Basics Sciences in Engineering. |
| 16 | Md. Sameer Quadri | 2014 | Certificate of performance in C programming quiz compilation. |

## 5 FACULTY INFORMATION AND CONTRIBUTIONS (200) Total Marks 186.15

CAY:2021-2022

**Faculty List – (AY:2021- 2022)**

| S.No | Name | PAN No | Qualification | Area of Specialization | Designation | Date of Joining | Date on which Designated as Professor/Associate Professor | Currently Associated (Y/N) | Nature of Association(regular/Contract/Adjunct) | If contractual mention full time or Part time | Date of Leaving(In case Currently Associated is "No") |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Dr.SYED ABDUL SATTAR | AQYPD0669G | ME/M. Tech and PhD | CSE | Principal & Professor | 8/17/2016 | 8/17/2016 | Y | Regular | | |
| 2 | Dr. MOHAMMAD SANAULLAH QASEEM | AACPQ0299B | ME/M. Tech and PhD | DATA MINING | HOD & Professor | 7/14/2018 | 7/14/2018 | y | Regular | | |
| 3 | Dr. P. NAGA PRASAD | AMKPP1860B | M.Sc.PhD | CSE | Professor | 3/29/2010 | 3/29/2010 | y | Regular | | |
| 4 | Dr. MOHAMMED WAHEED UDDIN HUSSAIN | ABEPH8623H | ME/M. Tech and PhD | CSE | Professor | 12/11/2014 | 12/11/2015 | N | Regular | | 26 March 2020 |
| 5 | Dr. MOHAMMED KHAJA NIZAMUDDIN | ACZPN5040J | ME/M. Tech and PhD | CSE | Associate Professor | 7/1/2017 | 7/1/2019 | N | Regular | | 26 November 2019 |
| 6 | Dr.RIYAZODDIN SIDDIQUI | APOPS1557B | ME/M. Tech and PhD | Computer Vision | Professor | 3/11/2020 | 3/11/2020 | Y | Regular | | |
| 7 | Mr.MOHAMMED KHALEEL AHMED | ATKPA6188J | ME/M. Tech | CSE | Associate Professor | 11/2/2013 | 10-Jul-18 | Y | Regular | | |
| 8 | Ms.SYEDA FARHATH BEGUM | BNBPB5819B | ME/M. Tech | CSE | Associate Professor | 10/15/2012 | 1-Nov-17 | Y | Regular | | |
| 9 | Ms.WASEEMA MASOOD | ABAPW4095Q | ME/M. Tech | CSE | Associate Professor | 1/7/2013 | 10-Jul-18 | Y | Regular | | |
| 10 | Ms.FIRDOUS REHANA | DIFPR7228R | ME/M. Tech | CSE | Assistant Professor | 8/20/2014 | | Y | Regular | | |
| 11 | Mr.M.A.MUJEEEB | CMNPM5395K | ME/M. Tech | CSE | Assistant Professor | 4/10/2015 | | N | Regular | | 26 November 2019 |
| 12 | Ms.ISHRATH NOUSHEEN | AJZPN4819N | ME/M. Tech | CSE | Assistant Professor | 4/15/2015 | | Y | Regular | | |
| 13 | Mr.MOHAMMED ABDUL RAWOOF | AXIPR9560K | ME/M. Tech | CSE | Assistant Professor | 4/10/2015 | | Y | Regular | | |
| 14 | Ms.MUNAWAR KHATOON | GEZPK3245G | ME/M. Tech | CSE | Assistant Professor | 10/7/2017 | | Y | Regular | | |
| 15 | Mr. MOHAMMED KHAJA IFTEQUAR ALI KHAN | BXHPK9804K | ME/M. Tech | CSE | Assistant Professor | 10/7/2017 | | Y | Regular | | |
| 16 | Mr.ABDUL MUQEETH | BKRPM1272N | ME/M. Tech | CSE | Assistant Professor | 10/7/2017 | | Y | Regular | | |
| 17 | Ms.ASMA MEHDIA | BCOPM4326A | ME/M. Tech | CSE | Assistant Professor | 11/1/2019 | | Y | Regular | | |
| 18 | Ms.BUSHRA KHATOON | CDDPB6030P | ME/M. Tech | CSE | Assistant Professor | 11/1/2019 | | Y | Regular | | |
| 19 | Ms.FARHA NAZNEEN | AYDPN1750F | ME/M. Tech | CSE | Assistant Professor | 11/1/2019 | | Y | Regular | | |
| 20 | Ms. AIZAZ SULTANA | DXPPS0919M | ME/M. Tech | CSE | Assistant Professor | 12/11/2016 | | Y | Regular | | |
| 20 | Ms. SYEDA ARSHIA LATEEF | ANTPL0262B | ME/M. Tech | CSE | Assistant Professor | 1/7/2017 | | Y | Regular | | |
| 22 | Ms. ZAHOORA ABID | AWSPA0264G | ME/M. Tech | CSE | Assistant Professor | 15-04-2015 | | Y | Regular | | |
| 23 | Mr. MOHD KHAJA MOIZUDDIN | ANHPM8628C | ME/M. Tech | CSE | Assistant Professor | 29-12-2021 | | Y | Regular | | |
| 24 | Ms. SYEDA NISHAT FATIMA | ACJPF2542F | ME/M. Tech | CSE | Assistant Professor | 12th Nov,2021 | | Y | Regular | | |
| 25 | Ms. JUVERIA FATIMA | AFVPF4186Q | ME/M. Tech | CSE | Assistant Professor | 21/10/2021 | | Y | Regular | | |

Institute Marks :

CAYm1

## Faculty List – (AY:2020-2021)

| S.No | Name | PAN No | Qualification | Area of Specialization | Designation | Date of Joining | Date on which Designated as Professor/Associate | Currently Associated(Y/N) | Nature of Association(regular/Contract/Adjunct) | If contractual mention full time or Part time | Date of Leaving(In case Currently Associated is "No") |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Dr.SYED ABDUL SATTAR | AQYPD0669G | ME/M. Tech and PhD | CSE | Principal & Professor | 8/17/2016 | 8/17/2016 | Y | Regular | | |
| 2 | Dr. MOHAMMAD SANAULLAH QASEEM | AACPQ0299B | ME/M. Tech and PhD | DATA MINING | HOD & Professor | 7/14/2018 | 7/14/2018 | y | Regular | | |
| 3 | Dr. P. NAGA PRASAD | AMKPP1860B | M.Sc.PhD | CSE | Professor | 3/29/2010 | 3/29/2010 | y | Regular | | |
| 4 | Dr. MOHAMMED WAHEED UDDIN | ABEPH8623H | ME/M. Tech and PhD | CSE | Professor | 12/11/2014 | 12/11/2015 | N | Regular | | 26 March 2020 |
| 5 | Dr. MOHAMMED KHAJA NIZAMUDDIN | ACZPN5040J | ME/M. Tech and PhD | CSE | Associate Professor | 7/1/2017 | 7/1/2019 | N | Regular | | 26 November 2019 |
| 6 | Dr.RIYAZODDIN SIDDIQUI | APOPS1557B | ME/M. Tech and PhD | Computer Vision | Professor | 3/11/2020 | 3/11/2020 | Y | Regular | | |
| 7 | Mr.MOHAMMED KHALEEL AHMED | ATKPA6188J | ME/M. Tech | CSE | Associate Professor | 11/2/2013 | 10-Jul-18 | Y | Regular | | |
| 8 | Ms.SYEDA FARHATH BEGUM | BNBPB5819B | ME/M. Tech | CSE | Associate Professor | 10/15/2012 | 1-Nov-17 | Y | Regular | | |
| 9 | Ms.WASEEMA MASOOD | ABAPW4095Q | ME/M. Tech | CSE | Associate Professor | 1/7/2013 | 10-Jul-18 | Y | Regular | | |
| 10 | Ms.FIRDOUS REHANA | DIFPR7228R | ME/M. Tech | CSE | Assistant Professor | 8/20/2014 | | Y | Regular | | |
| 11 | Mr.M.A.MUJEEEB | CMNPM5395K | ME/M. Tech | CSE | Assistant Professor | 4/10/2015 | | N | Regular | | 26 November 2019 |
| 12 | Ms.ISHRATH NOUSHEEN | AJZPN4819N | ME/M. Tech | CSE | Assistant Professor | 4/15/2015 | | Y | Regular | | |
| 13 | Mr.MOHAMMED ABDUL RAWOOF | AXIPR9560K | ME/M. Tech | CSE | Assistant Professor | 4/10/2015 | | Y | Regular | | |
| 14 | Ms.MUNAWAR KHATOON | GEZPK3245G | ME/M. Tech | CSE | Assistant Professor | 10/7/2017 | | Y | Regular | | |
| 15 | Mr. MOHAMMED KHAJA IFTEQUAR ALI KHAN | BXHPK9804K | ME/M. Tech | CSE | Assistant Professor | 10/7/2017 | | Y | Regular | | |
| 16 | Mr.ABDUL MUQEETH | BKRPM1272N | ME/M. Tech | CSE | Assistant Professor | 10/7/2017 | | Y | Regular | | |
| 17 | Ms.ASMA MEHDIA | BCOPM4326A | ME/M. Tech | CSE | Assistant Professor | 11/1/2019 | | Y | Regular | | |
| 18 | Ms.BUSHRA KHATOON | CDDPB6030P | ME/M. Tech | CSE | Assistant Professor | 11/1/2019 | | Y | Regular | | |
| 19 | Ms.FARHA NAZNEEN | AYDPN1750F | ME/M. Tech | CSE | Assistant Professor | 11/1/2019 | | Y | Regular | | |
| 20 | AIZAZ SULTANA | DXPPS0919M | ME/M. Tech | CSE | Assistant Professor | 12/11/2016 | | Y | Regular | | |
| 20 | SYEDA ARSHIA LATEEF | ANTPL0262B | ME/M. Tech | CSE | Assistant Professor | 1/7/2017 | | Y | Regular | | |
| 22 | ZAHOORA ABID | AWSPA0264G | ME/M. Tech | CSE | Assistant Professor | 15-04-2015 | | Y | Regular | | |

| Name | PAN No. | University Degree | Date of Receiving Degree | Area of Specialization | Research Paper Publications | Ph.D Guidance | Faculty receiving Ph.D during the assessmentyear | Current Designation | Date (Designated as Prof/Assoc. Prof.). | Initial Date of Joining | Association Type | At present working with the Institution(Yes/No) | In case of NO, Date of Leaving | IS HOD? |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DR. MOHAMMAD SANAULLAH QASEEM | AACPQ0299B | ME/M. Tech and PhD | 10/01/2015 | DATA MINING | 22 | 0 | 0 | Professor | 14/07/2018 | 14/07/2018 | Regular | Yes | | Yes |
| SYEDA FARHATH BEGUM | BNBPB5819B | M.E/M.Tech | 10/10/2012 | CSE | 13 | 0 | 0 | Associate Professor | 15/10/2012 | 15/10/2012 | Regular | Yes | | No |
| WASEEMA MASOOD | ABAPW4095Q | M.E/M.Tech | 09/11/2012 | CSE | 3 | 0 | 0 | Associate Professor | 01/07/2013 | 01/07/2013 | Regular | Yes | | No |
| FIRDOUS REHANA | DIFPR7228R | M.E/M.Tech | 30/12/2013 | CSE | 4 | 0 | 0 | Assistant Professor | | 20/08/2014 | Regular | Yes | | No |
| ISHRATH NOUSHEEN | AJZPN4819N | M.E/M.Tech | 02/05/2013 | CSE | 3 | 0 | 0 | Assistant Professor | | 15/04/2015 | Regular | Yes | | No |
| MUNAWAR KHATOON | GEZPK3245G | M.E/M.Tech | 05/02/2013 | CSE | 1 | 0 | 0 | Assistant Professor | | 10/07/2017 | Regular | Yes | | No |
| MOHAMMED KHAJA IFTEQUAR ALI KHAN | BXHPK9804K | M.E/M.Tech | 03/02/2014 | CSE | 1 | 0 | 0 | Associate Professor | 30/10/2017 | 10/07/2017 | Regular | Yes | | No |
| ABDUL MUQEETH | BKRPM1272N | M.E/M.Tech | 07/10/2013 | CSE | 1 | 0 | 0 | Assistant Professor | | 10/07/2017 | Regular | Yes | | No |
| MOHAMMED ABDULRAWOOF | AXIPR9560K | M.E/M.Tech | 01/05/2015 | CSE | 4 | 0 | 0 | Assistant Professor | | 10/06/2015 | Regular | Yes | | No |
| M A MUJEEB | CMNPM5395K | M.E/M.Tech | 02/09/2013 | CSE | 0 | 0 | 0 | Assistant Professor | | 03/04/2015 | Regular | No | 15/08/2019 | No |
| MOHAMMED IRSHAD | BSCPM1299J | M.E/M.Tech | 23/03/2015 | CSE | 0 | 0 | 0 | Assistant Professor | | 27/04/2015 | Regular | No | 20/05/2017 | No |
| MOHD SHOEB | DTGPS5542M | M.E/M.Tech | 04/06/2016 | CSE | 0 | 0 | 0 | Assistant Professor | | 04/07/2016 | Regular | No | 06/05/2017 | No |
| SYED ABDUL SAMAD | EFOPS4175F | M.E/M.Tech | 02/02/2015 | CSE | 1 | 0 | 0 | Assistant Professor | | 26/05/2016 | Regular | No | 01/12/2017 | No |
| DR. MOHAMMED KHAJA NIZAMUDDIN | ACZPN5040J | ME/M. Tech and PhD | 14/10/2013 | CSE | 7 | 0 | 0 | Professor | 02/10/2017 | 10/07/2017 | Regular | No | 26/08/2019 | No |
| Dr. MOHAMMED WAHEED UDDIN HUSSAIN | ABEPH8623H | ME/M. Tech and PhD | 09/12/2015 | CSE | 5 | 0 | 0 | Professor | 04/07/2016 | 11/12/2014 | Regular | No | 26/03/2020 | No |
| SAMEERA FATIMA | ACAPF2141B | M.E/M.Tech | 04/09/2014 | CSE | 0 | 0 | 0 | Assistant Professor | | 01/10/2014 | Regular | No | 13/06/2018 | No |
| Dr. MOHAMMED ZUBER | CSZPM6860R | ME/M. Tech and PhD | 22/02/2013 | CSE | 0 | 0 | 0 | Professor | 22/12/2015 | 22/12/2015 | Regular | No | 18/05/2019 | No |
| Dr. P. NAGA PRASAD | AMKPP1860B | M.Sc. andPhD | 05/07/1994 | CSE | 0 | 0 | 0 | Professor | 29/03/2010 | 29/03/2010 | Regular | Yes | | No |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MOHAMMED KHALEELAHMED | ATKPA6188J | M.E/M.Tech | 22/01/2013 | CSE | 27 | 0 | 0 | Associate Professor | 22/01/2013 | 10/01/2011 | Regular | Yes | | No |
| AIZAZ SULTANA | DXPPS0919M | M.E/M.Tech | 09/11/2009 | CSE | 0 | 0 | 0 | Assistant Professor | | 12/11/2016 | Regular | Yes | | No |
| AFSHA NISHATH | AYFPN1016Q | M.E/M.Tech | 22/03/2016 | CSE | 0 | 0 | 0 | Assistant Professor | | 04/04/2016 | Regular | No | 26/12/2017 | No |
| CHANDRA NAIK M | AFMPN8656E | ME/M. Tech and PhD | 29/09/2015 | CSE | 0 | 0 | 0 | Professor | 11/07/2016 | 11/07/2016 | Regular | No | 07/06/2018 | No |
| IJTEBA SULTANA | GBTPS8931J | M.E/M.Tech | 23/03/2016 | CSE | 0 | 0 | 0 | Assistant Professor | | 04/04/2016 | Regular | No | 13/06/2018 | No |
| MOHAMMED IRSHAD | BSCPM1299J | M.E/M.Tech | 23/03/2015 | CSE | 0 | 0 | 0 | Assistant Professor | | 06/04/2015 | Regular | No | 20/11/2017 | No |
| ZAHOORA ABID | AWSPA0264G | M.E/M.Tech | 27/11/2014 | CSE | 2 | 0 | 0 | Assistant Professor | | 01/04/2015 | Regular | Yes | | No |
| SYEDA ARSHIYA LATEEF | ANTPL0262B | M.E/M.Tech | 16/02/2017 | CSE | 1 | 0 | 0 | Assistant Professor | | 01/03/2017 | Regular | Yes | | No |
| ASMA MEHDIA | BCOPM4326A | M.E/M.Tech | 10/10/2014 | CSE | 04 | 0 | 0 | Assistant Professor | | 23/02/2020 | Regular | Yes | | No |
| Dr. RIYAZODDIN SIDDIQUI | APOPS1557B | M.E/M.Tech AND Ph.D | 10/01/2016 | Computer Vision | 45 | 02 | 0 | Professor | | 11/04/2020 | Regular | Yes | | No |
| BUSHRA KHATOON | CDDPB6030P | M.E/M.Tech | 11\02\2020 | CSE | 0 | 0 | 0 | Assistant Professor | | 11/02/2020 | Regular | Yes | | No |
| DR. SYED ABDUL SATTAR | AQYPD0669G | M.E/M.Tech AND Ph.D | 07/04/2007 | CSE | 278 | 34 | 5 | Professor | | 17/08/2016 | Regular | Yes | | No |
| FARHA NAZNEEN | AYBPN1750F | M.E/M.Tech | 01/11/2019 | CSE | 3 | 0 | 0 | Assistant Professor | | 01/11/2019 | Regular | Yes | | No |
| MOHD KHAJA MOIZUDDIN | ANHPM8628C | M.E/M.Tech | | CSE | 5 | 0 | 0 | Assistant Professor | | 30-12-2021 | Regular | Yes | | No |
| SYEDA NISHAT FATIMA | ACJPF2542F | M.E/M.Tech | | CSE | | 0 | 0 | Assistant Professor | | 30-12-2021 | Regular | Yes | | No |
| Ms. JUVERIA FATIMA | AFVPF4186Q | M.E/M.Tech | | CSE | | 0 | 0 | Assistant Professor | | 30-12-2021 | Regular | Yes | | No |

## 5.1 Student-Faculty Ratio (20)

Total Marks 20.00

Institute Marks : 20.00

UG

**No. of UG Programs in the Department** 1

| B.TECH | | | | | | |
|---|---|---|---|---|---|---|
| Year of Study | CAY (2020-21) | | CAYm1 (2019-20) | | CAYm2 (2018-19) | |
| | Sanction Intake | Actual admitted through lateral entry students | Sanction Intake | Actual admitted through lateral entry students | Sanction Intake | Actual admitted through lateral entry students |
| 2nd Year | 60 | 6 | 60 | 6 | 60 | 1 |
| 3rd Year | 60 | 6 | 60 | 1 | 60 | 0 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 4th Year | 60 | 1 | 60 | 0 | 60 | 0 |
| **Sub-Total** | **180** | **13** | **180** | **7** | **180** | **1** |
| **Total** | **192** | | **186** | | **181** | |

| | | | |
|---|---|---|---|
| Grand Total | 192 | 187 | 181 |

PG

**No. of PG Programs in the Department** 1

| M.TECH | | | |
|---|---|---|---|
| **Year of Study** | **CAY(2020-21)** | **CAYm1(2019-20)** | **CAYm2 (2018-19)** |
| | **Sanction Intake** | **Sanction Intake** | **Sanction Intake** |
| 1st Year | 18 | 18 | 18 |
| 2nd Year | 18 | 18 | 18 |
| **Total** | **36** | **36** | **36** |

| | | | |
|---|---|---|---|
| Grand Total | 36 | 36 | 36 |

## SFR

**No. of UG Programs in the Department** 1

**No. of PG Programs in the Department** 1

| **Description** | **CAY(2020-21)** | | **CAYm1 (2019-20)** | | **CAYm2 (2018-19)** | |
|---|---|---|---|---|---|---|
| Total No. of Students in the Department(S) | 228 **students** | **Sum total of all (UG+PG)** | 223 **students** | **Sum total of all (UG+PG)** | 217 **students** | **Sum total of all (UG+PG)** |
| No. of Faculty in the Department(F) | 16 | **F1** | 16 | **F2** | 15 | **F3** |
| Student Faculty Ratio(SFR) | 14.25 | **SFR1=S1/F1** | 13.9 | **SFR2=S2/F2** | 14.46 | **SFR3=S3/F3** |
| Average SFR | 14.9 | **SFR=(SFR1+SFR2+SFR3)/3** | | | | |
| **F=Total Number of Faculty Members in the Department (excluding first year faculty)** | | | | | | |

**Note:** 75% should be Regular/full time faculty and the remaining shall be Contractual Faculty/Adjust Faculty/Resource persons from industry as per AICTE norms and standards. The contractual faculty will be considered for assessment only if a faculty is drawing asalary as prescribed by the concerned State Government for the contractual faculty in the respective cadre.

5.1.1. Provide the information about the regular and contractual faculty as per the format mentioned below:

| | Total number of regular faculty in the department | Total number of contractual faculty in the department |
|---|---|---|
| CAY(2020-21) | 19 | 0 |
| CAY(2019-20) | 19 | 0 |
| CAYm1(2018-19) | 18 | 0 |

**5.2 Faculty Cadre Proportion** (25)

Total Marks 25.00

Institute Marks : 25.00

| Year | Professors | | Associate Professors | | Assistant Professors | |
|---|---|---|---|---|---|---|
| | Required F1 | Available | Required F2 | Available | Required F3 | Available |
| CAY(2020-21) | 1.00 | 4.00 | 2.00 | 4.00 | 7.00 | 11.00 |
| CAYm1(2019-20) | 1.00 | 4.00 | 2.00 | 4.00 | 7.00 | 11.00 |
| CAYm2(2018-19) | 1.00 | 5.00 | 2.00 | 4.00 | 7.00 | 09.00 |
| Average Numbers | 1.00 | 4.3 | 2.00 | 4.0 | 7.00 | 10.33 |

Cadre Ratio Marks [ (AF1 / RF1) + [(AF2 / RF2) * 0.6] + [ (AF3 / RF3) * 0.4] ] * 12.5 : 7 6 .1

**5.3 Faculty Qualification** (25)

Total Marks 21.15

Institute Marks : 21.15

| | X | Y | F | FQ = 2.5 x [(10X + 4Y) / F )] |
|---|---|---|---|---|
| 2020-21(CAY) | 4 | 15 | 12.00 | 20.83 |
| 2019-20(CAYm1) | 4 | 15 | 11.00 | 22.53 |
| 2018-19(CAYm2) | 4 | 13 | 10.00 | 23.00 |

Average Assessment : 2 1 . 3 8

**5.4 Faculty Retention** (25)

Total Marks 20.00

Institute Marks : 20.00

| Description | 2018-19 | 2019-20 | 2020-21 |
|---|---|---|---|
| No of Faculty Retained | 16 | 14 | 16 |
| Total No of Faculty | 18 | 19 | 19 |
| % of Faculty Retained | 88 | 73 | 84 |

Average : 81.6 Assessment Marks : 20.00

**5.5 Innovations by the Faculty in Teaching and Learning** (20)

Total Marks 20.00

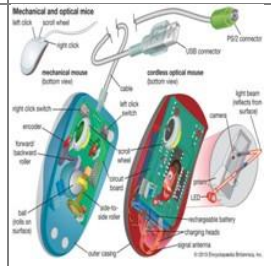
Institute Marks : 20.00

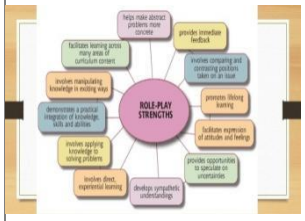
**Innovations by the Faculty in Teaching and Learning**

The teaching/learning process is given immense importance in the institute and motivates the faculty to adopt innovative processes in Teaching and Learning process. These innovative teaching approaches which are a combination of the traditional lecture method alongwith other methods helps the young minds to increase their learning capacity.

Following are the best and innovative practices undertaken by the faculty members for improving teaching and learning experience

- Usage of ICT infrastructure to prepare computer aided
- teaching and learning material. Conduct of Student Seminars.
- Conduct of Assignments, tutorials, Class room tests and Group discussions on Case studies.
- Conduct of add on courses like C Programming , Soft Computing , Spoken English to acquire additional knowledge.
- Establishing MOUs with industry and academia so as to conduct certification programmes like **CISCO,HACKATHON,WORKSHOPS** etc which helps the students to bridge the gap between the industry requirements and the concepts they obtained as a part of thecore curriculum.
- Through Organizing Industrial/Educational tours and visits to various companies, industries help students to
- gain real experience about the outside world. Conduct of Co curricular activities like TECHNO FEST, TECHNO VISION, to build competitive and organizational skills in the students.
- Conduct of remedial /backlog classes and special classes for slow learners so as to improve the learning skills of the student.
- Deputation of students to conferences, seminars and workshops which inturn helps the students to acquire paper presentation
- /preparation, communication and event participation skills. To teach content beyond the syllabus and to encourage Peer teaching to enable students to attain self learning skills.
- Lifelong learning skills and interest in research activities can be developed in students through Eminent Scientists and experts lectures.

| S.No | Innovative Practices | Goals | Context |
|---|---|---|---|
| 1. | Case Study Demonstration | Case studies involve in-depth research into a given subject, in order to understand its functionality and successes. | 1. A case study is a research method to gain a better understanding of a subject or process.<br>2. Students are given a case study to conduct the investigation and reports are made to generate by the students after investigation. |
| 2. | Demonstration through working model/computer Peripherals |  | The students of second year were taken to ITWS lab to explain about the principles of working of **computer peripheral** devices namely **input-output device** Also, they were shown different types of storage and. equipment of modern digital computer systems. |

| | | | |
|---|---|---|---|
| 3. | Computer Day | The Department operates on the computer and digital gadgets. | 1. Computer Day is observed to promote the awareness about the computer and electronic devices.<br>2. It is indeed vital to educate students about digital literacy.<br>3. The celebration of Computer Day encourages Students to use them efficiently with a range of skills ranging from primary use to the programming level and advanced problem-solving.<br>5. Take this Day as the best opportunity to learn in detail about the computer and its related technology. |
| 4. | Role Play |  | 1. Role play is an educational technique in which people spontaneously act-out problem of human relations and analyses the enactment with the help of other role players and observers.<br>2. Role playing is effective when the topic involves person to person communication or interactions.<br>3.Role play can allow everyone to participate. |

**The Best and Innovative Practices are mentioned below in table**:

| Sr. No | Best & Innovative Practices | Goals | Context |
|---|---|---|---|
| 1. | Power Point Presentations | To enhance the overall comprehension of students and allows teachers to present their lessons in a more dynamic way. | ➢ It provides the ability to equip presentations with different types of media<br>- including images, sounds, animations, and much more.<br>➢ This enhances the students abilities to retain what is being taught, especially to those who are visual learners. |

| | | | |
|---|---|---|---|
| 2. | Student Seminars | The overall objective of this activity is to motivate students for self Study and Group Study | ➢ This best practice enhances the Listening ability, communication skill, Time Management skill and Team Leadership quality of students builds up.<br>➢ Student takes responsibility while working in a team and learn to deal with conflicting opinions.<br>➢ Sharing of Knowledge uplifts while preparing. |
| 3. | Group Discussion | To develop skills in interpersonal communication and in expressing views in a clear and concise manner. | ➢ Learn from other peoples experiences and background knowledge.<br>➢ Gain perspective and point of view which increases the listening and interpersonal skill. |
| 4. | Sessional and pre-university examination | To broaden knowledge, create competitions, develop personality and confidence, enhance learning | ➢ Balanced and fair evaluation of individual student.<br>➢ Accurate judgment to classify weak and strong students. |
| 5. | Contents beyond syllabus | To bridge the gap between syllabus & recent trends in Engineering & Technology | ➢ Students shall be encouraged to work with innovative ideas and shall focus on current technological trends to do their Seminars and Projects. |
| 6 | Open ended experiments (Extended Lab hours) | To inculcate self-thinking and encouragement to develop their own experiments related to their topic of study. | ➢ Students are expected to formulate their own strategies, with appropriate reasoning, knowledge background and logical justification.<br>➢ Develop self-directed, reflective, lifelong learners who can integrate knowledge, think critically and work collaboratively. |

**Web Based Learning Process**

Web-based learning teaching learning approach (WBTLA) has increasingly become dominant in the educational landscape, in higher education institutions. It provides teachers, lecturers and students with a new and wide range of teaching-learning experience such as accessing information at any time and place, online presentation of information, interactive task-based activities, effective dissemination of information, and long distance education that is less possible in traditional classrooms. The students are able to learn better, which would make them more motivated to pay more attention to the information presented and retain the information better.

**Goals**

- Students can quick understood the given topic
- Increase the student understanding level
- Enhance student pass percentage in academics
- Giving tips for on campus placement competition

**Methods**

- Use of digital data.
- Use of online tools.

| *S.No* | *Name of the faculty* | *Subject* | *Year-semester* | *A.Y.* |
|---|---|---|---|---|
| 1 | Ms.Firdous Rehana | Web Technology | III-I | 2019-20 |
| 2 | Ms. Munawar Khatoon | Design & Analysis Of Algorithms | II-II | 2019-20 |

**2. Flipped Learning Process:**

Flipped classroom is an idea to reverse the instructional practice of the traditional classroom. Instead of entering the classroom with a clean slate, learners go through prior online training. This way learner will get direct instruction moves from the group learning space to the individual learning space, and the resulting group space is transformed into a dynamic, interactive learning environment.

**Goals**

- To make the **classroom** an active **learning** environment.
- To enable students to learn at their own pace, and.
- To give the instructor more time to teach each student individually, rather than the class as a whole.

**Methods**

- Students will prepare the question from given data by faculty.
- Use of research online tools.

| *S.No* | *Name of the faculty* | *Subject* | *Year-semester* | *A.Y.* |
|---|---|---|---|---|
| 1 | Ms. Syeda Farhath Begum | Data structure through C++ | III-II | 2019-20 |
| 2 | Ms.Firdous Rehana | Programming Languages | II-I | 2019-20 |
| 3 | Ms.Firdous Rehana | Programming for Problem solving | I-I | 2019-20 |

**3. Virtual Reality:**

**VR in the Classroom** Allows All Students the Opportunity to Explore. When **virtual reality** tools were first introduced into the **classroom**, the technology was marketed as a way to go beyond the walls of a school and take students places they would otherwise not be able to go.

GOALS:

- Explore the depth of the subject.
- **Allow students to share their world with others by creating their own VR content.**

| *S.No* | *Name of the faculty* | *Subject* | *Year-semester* | *A.Y.* |
|---|---|---|---|---|
| 1 | Mr. Mohammed Khaleel Ahmed | Computer Networks | III-II | 2018-2019 |
| 2 | Mrs. Waseema Masood | Computer Forensic | III-I | 2018-2019 |

**4. Laboratory Improvement for Future Trends (LIFT):**

Laboratory instruction is considered essential because it provides training in observation, supplied detailed information, and aroused pupils' interest. Keeping this in the view, LIFT has been introduced to provide practical hands on experience for each student by making them with good exposure to different experiments and uplift the knowledge levels of student in various fields with different applications.

**Goals:**

- LIFT programme is to innovate, modify the existing facilities in labs
- To create awareness among the students and develop Industry –Institution interactions and reach the standards in laboratories.

| *S.No* | *Name of the Laboratory* | *Year-Semester* |
|---|---|---|
| 1 | Data structures Lab | II – I |
| 2 | Operating System Lab | III – I |
| 3 | Compiler Design Lab | III – I |
| 4 | Case Tools Lab | IV – I |
| 5 | Software Testing Lab | III – I |
| 6 | Linux Programming Lab | IV – I |
| 7 | Data Mining & Ware housing Lab | IV – I |

| S.No | Name of the Laboratory | Year-Semester |
|---|---|---|
| 8 | Database Management System Lab | II –II |
| 9 | Java Programming Lab | II –II |
| 10 | Case Tools and Web Technologies Lab | III –II |
| 11 | Advanced Communication Skills Lab | III –II |

**5. Rebus learning Process:**

**Rebus teaching learning** that combines the use of illustrated pictures with individual letters to depict words or phrases. The students will able to learn the subject through pictures. Students are able to grab the technical words and phrases with rebus learning.

| S.No | Name of the Laboratory | Year-Semester |
|---|---|---|
| 1 | Cryptography and network security | III – I |
| 2 | Operating System Lab | III – I |
| 3 | Compiler Design Lab | III – I |

**5.6 Faculty as participants in Faculty development/training activities/STTPs** (15)

Total Marks 15.00

Institute Marks : 15.00

| Name of the faculty | Max 5 Per Faculty | | | | |
|---|---|---|---|---|---|
| | 2020-2021 | 2019-2020 | 2018-19 (CAYm1) | 2017-18 (CAYm2) | 2016-17 (CAYm3) |
| Dr. MOHAMMAD SANAULLAH QASEEM | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| Mr. MOHAMMED KHALEEL AHMED | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| Ms. SYEDA FARHATH BEGUM | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 |

| | | | | | |
|---|---|---|---|---|---|
| Ms. WASEEMA MASOOD | 5.00 | 5.00 | 5.00 | 3.00 | 5.00 |
| Mr. ABDUL RAWOOF | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| Ms. FIRDOUS REHANA | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| Ms. ISHRATH NOUSHEEN | 5.00 | 5.00 | 0.00 | 0.00 | 5.00 |
| Ms. ZAHOORA ABID | 5.00 | 5.00 | 0.00 | 5.00 | 5.00 |
| DR.RIYAZODDIN SIDDIQUI | 5.00 | 5.00 | 0.00 | 0.00 | 0.00 |
| MR.ABDUL MUQEETH | 5.00 | | | | |
| MS.ASMA MEHDIA | 5.00 | 5.00 | 0.00 | 0.00 | 0.00 |
| DR SYED ABDUL SATTAR | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| FARHA NAZNEEN | 3.00 | 3.00 | 0 | 0 | 0 |
| Sum | 55 | 50 | 30.00 | 33.00 | 40.00 |
| RF = Number of Faculty required to comply with 20:1 Student Faculty Ratio as per 5.1 | 11.0 | 11.0 | 11.10 | 10.85 | 10.80 |
| Assessment [3*(Sum / 0.5RF)] | 30 | 27.27 | 16.22 | 18.25 | 22.22 |

Average assessment over 3 years: 18.90

**5.7 Research and Development** (30)

Total Marks 25.00

**5.7.1 Academic Research** (10)

Institute Marks : 10.00

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

| S.NO | NAME OF THE FACULTY | CONFERENCE | JOURNALS | TOTAL |
|---|---|---|---|---|
| 1 | Dr. MOHAMMAD SANAULLAH QASEEM | 12 | 12 | 24 |
| 2 | Dr. MOHAMMED WAHEEDUDDIN HUSSAIN | 3 | 2 | 5 |
| 3 | Dr. M.K.NIZAMUDDIN | 4 | 3 | 7 |
| 4 | Mr. MOHAMMED KHALEEL AHMED | 1 | 13 | 14 |
| 5 | Mr. M.K.IFTEQUAR ALI KHAN | 0 | 1 | 1 |
| 6 | Ms. SYEDA FARHATH BEGUM | 3 | 10 | 13 |
| 7 | Ms. WASEEMA MASOOD | 1 | 4 | 5 |
| 8 | Mr. ABDUL RAWOOF | 1 | 3 | 4 |
| 9 | Ms. FIRDOUS REHANA | 2 | 2 | 4 |

| | | | | |
|---|---|---|---|---|
| 10 | Ms. ISHRATH NOUSHEEN | 0 | 4 | 4 |
| 11 | Ms. ZAHOORA ABID | 0 | 3 | 3 |
| 12 | Ms.MUNAWAR KHATOON | 0 | 1 | 1 |
| 13 | Mr.ABDUL MUQEETH | 0 | 1 | 1 |
| 14 | Mr.SYED ABDUL SAMAD | 1 | 0 | 1 |
| 15 | Ms.ARSHIYA LATEEF | 0 | 1 | 1 |
| 16 | Dr. SYED ABDUL SATTAR | 122 | 165 | 288 |

**Books and Patents**

| S.NO | NAME OF THE FACULTY | BOOKS PUBLISHED / CHAPTER | PUBLISHER | ISBN |
|---|---|---|---|---|
| 1 | Dr. MOHAMMED WAHEEDUDDIN HUSSAIN | Bioinformatics | Ukaaz Publications | 8188279625 |
| 2 | DR. MOHAMMAD SANAULLAH QASEEM | A Survey on Deceptive Phishing Attacks in Social Networking Environments - Advances in Intelligent Systems and Computing | SPRINGER | Springer Nature, Vol. 1090, pp. 443-453, March 2020, ISSN: 2194-5357 |
| 3 | DR. MOHAMMAD SANAULLAH QASEEM | Strategies and Tools for Effective Suspicious Event Detection from Video: A Survey Perspective (COVID-19) | SPRINGER | In: Chaurasia M.A., Mozar S. (eds) Contactless Healthcare Facilitation and Commodity Delivery Management During COVID 19 Pandemic. Advanced Technologies and Societal Change. Springer, Singapore. pp 79-94, November 2021, ISBN 978-981-16-5411-4 |

**Patents**

| S.NO | Title | Patent Details | Owner(s) | Domestic / International |
|---|---|---|---|---|
| 1 | A System For Service Providing Using Block-Chain | **Patent number:** 2021101316<br><br>Date submitted: 13/03/2021 | Dr K.Shashidhar, Arun kumar , Madupu Ravirala, Gopinath Maheswara Reddy Sura, Dr. Mohammad Sanaullah Qaseem, Firdous Rehana, Dr. Arun Singh Chouhan Qazi Mohammed Abdul Basheer, Ms Syeda Farhath Begum, Ms Waseema Masood, Ms Farheen Sultana, Dr Sandeep P, DR Mohammed Abdul Bari, Chinna Narasimhulu C | Australian |
| 2 | Recognizing Parking Spots And Distinguishing Inhabitance Utilizing Vision-Based IoT | **Patent number: 202141019090**<br>Date submitted: 26/4/2021 | Mohamed Yousuff A R, Dr. Dundati Karunakar Reddy, Telugu Maddileti, M Banu Prakash, Kongala Raju, S Siva Reddy, V. Sabitha, Dr. Mohammad Sanaullah Qaseem, Firdous Rehana, Syeda Farhath Begum, Farheen Sultana, D. Naresh | Indian |
| 3 | Utilization of Internet of Things to optimize the Human task in an Industry 4.0 context | Patent number: 2021104364,<br>Date submitted: 21/07/2021 | Dr. Dundati Karunakar Reddy, Mr. Ashwala Mohan, Dr. K.Shashidhar, Mr. C.Hari Prasad, Mrs. K. Lavanya, Dr. Amairullah Khan Lodhi, Mrs. B.Madhavi, Dr. Mazher Sarfaraz Khan, Mrs. Priyadarsini R, Dr. T.K.Shaik Shavali, Dr. Shahanawaj Ahamad, Mrs. Syeda Husna Mehanoor, Mr. O.Ravinder, **Dr.** Mohammad Sanaullah Qaseem, Mr. K.Raju, Mrs. K.Suseela, Dr. Raja Rao Cheela, Ms. Syeda Farhath Begum | Australian |
| 4 | Detection of the Fake Drugs Using Block Chain Technology | Patent number:202121048976<br>Date submitted: 26/10/2021 | Dr. Ahmed Sajjad Khan, Muzaffar Khan, Imtiyaz Khan, Dr. Khalid Mohiuddin, Dr. Mohammed Khaja Nizamuddin, **Dr. Mohammad Sanaullah Qaseem**, Syeda Farhath Begum, Firdous Rehana, Farheen Sultana, Asma Mehdia, Waseema Masood, Dr. Mohd Akbar | Indian |

Ph.D. guided / Ph.D. awarded during the assessment period while working in the institute:

| S.NO | Name of the faculty | Name of the students | Enrollment number | Year of registration | University name | Title |
|---|---|---|---|---|---|---|
| 1. | Dr. Syed Abdul Sattar | Sameena Banu | | | **GITAM University, Vishakhapatnam** | Development of region based interactive Image segmentation Algorithms in **2017** |
| 2 | Dr. Syed Abdul Sattar | Md. Sirajuddin | | | **GITAM University, Vishakhapatnam** | Performance Enhancement Of 802.11(WLAN's) For Voice Transmission, in **2017** |
| 3 | Dr. Syed Abdul Sattar | Mohd Abdul Khader Jilani | | | Rayalaseema University, Kurnool | Empirical study of Component Based Software Development Techniques. In **2017** |
| 4 | Dr. Syed Abdul Sattar | Mahabubul Haq Atif | | | Rayalaseema University, Kurnool | Design of Energy Aware Routing Protocol with Enhanced Security for MANETs. (PP.COMP.SCI & ENG.0434), 2019 |
| 5 | Dr. Syed Abdul Sattar | Mohammed Khaja Nizamuddin | | | Rayalaseema University, Kurnool | Adaptive Unconventional Concurrency Control Protocols for Transaction in Mobile Database Systems 2017 |
| 6 | Dr. Syed Abdul Sattar | Abdullah Akber, | | | JNTUH Hyderabad | Design of Fault Tolerant SIP Application Server Farms with Focus on Load Balancing and Security. **2017** |
| 7 | Dr. Syed Abdul Sattar | Rajeshwari Mahesh Goudar | | | JNTUK, Kakinada | Remote Monitoring of Computer Network Through Mobile Device. **2019** |
| 8 | Dr. Syed Abdul Sattar | M Amer Lodhi | | | **VIGNAN University.** Guntur, A.P | Energy Efficient and Secure Intrusion Detection System Algorithm for Wireless Sensor Networks |

**5.7.2 Sponsored Research** (5) Institute Marks :

**2020-21 (CAY)**

| Project Title | Duration | Funding Agency | Amount |
|---|---|---|---|
| Website Design & Development | 1 Year | Internal NSAKCET BoG | 4 Lakh |
| | | | |

**2019-20 (CAYm1)**

| Project Title | Duration | Funding Agency | Amount |
|---|---|---|---|
| System Maintenance | 2 Year | Internal NSAKCET BoG | 5 Lakh |
| | | | |

**2018-19 (CAYm2)**

| Project Title | Duration | Funding Agency | Amount |
|---|---|---|---|
| Content Designing | 3 Year | Internal NSAKCET BoG | 4 Lakh |
| | | | |

Cumulative Amount(X + Y + Z) =

The CSE Department has applied for a DST project and submitted research proposal under CSRI Cognitive Science Research **Initiative** Scheme worth Rs. **1,19, 80,720/-** on **January 30, 2021**

The project proposal entitled "**Quantifying the Human Behavior from Perceptual** Face **Emotions"** testing the proposal submission submitted by you for financial support to this Department.
Acknowledgement of Project Under Consideration with the File Number: DST/CSRI/2021/251 received

This project will be considered under KIRAN Division and Cognitive Science Research **Initiative** Schemewhich is being handled by the following officer:

Programme Officer : Dr. Dr Vandana Singh , Scientist - 'E', Email Id: vandana.singh@nic.in

The Principal investigator Dr. Riyazoddin Siddiqui

And Co investigators Dr. Mohammad Sanaullah Qaseem

Dr. Syed Abdul Sattar

7/7/2021 Gmail - Acknowledgement of Project Under Consideration & Reference File No.

Gmail S Riyazoddin <sriyazoddin4@gmail.com>

**Acknowledgement of Project Under Consideration & Reference File No.**

pmso.dst@nic.in <pmso.dst@nic.in> Wed, Jul 7, 2021 at 6:48 PM
To: sriyazoddin4@gmail.com

Department of Science & Technology

Subject: Acknowledgement of Project Under Consideration & Reference File No.

Dear Dr. M Riyazoddin S

Online Project Management System

onlinedst.gov.in | Email: pmso.dst@nic.in

This refers to the project proposal entitled **Quantifying the Human Behavior from Perceptual** Face **Emotions** testing the proposal submission submitted by you for financial support to this Department.

Acknowledgement of Project Under Consideration with the File Number: DST/CSRI/2021/251

This project will be considered under KIRAN Division and Cognitive Science Research **Initiative** Scheme which is being handled by the following officer:

Programme Officer : Dr. Dr Vandana Singh , Scientist - 'E', Email Id: vandana.singh@nic.in

Please mention the above FILE NUMBER and TITLE OF THE PROJECT in all future correspondences with DST. You can access this project account at **onlinedst.gov.in** using the Principal Investigator (PI) username and password.

Regards
Administrator
e-PMS

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### 5.7.3 Development Activities (10)

Institute Marks : 10.00

**Product Development**

The following Products / Projects / Applications have been developed by students:

| S.NO | Products/Projects/Applications Developed |
|---|---|
| 1. | Student Online Feedback Analysis System |
| 2. | Concept A298 |
| 3. | Link up Application |
| 4. | RFID in Health care |
| 5 | Pitch –in App |
| 6 | Snake Game in C |
| 7 | Tic Tac Toe in c |
| 8. | Home Automation using Arduino |
| 9. | Web application using JavaScript & PHP for Different applications. |
| 10. | Developed web applications using Android and JAVA |
| 11. | Blind Stick |
| 12. | Character Detection based on Machine Learning |
| 13. | Using Machine Learning Method in Detection of Rumours in Social Media |
| 14. | NSAKCET Virtual Library |
| 15. | COVID 19 TRACKER |

**Research laboratories**

| S.No | Software Description |
|---|---|
| 1 | Microsoft e- Licensed |
| 2 | Window Server |
| 3 | MS Office |
| 4 | SQL Server |
| 5 | Windows XP |
| 6 | Linux ,NS2 |
| 7 | Arduino Board |
| 8 | Mat Lab |
| 9 | My Eclipse, Net-beans IDE |
| 10 | Apache Tomcat |
| 11 | Linux |
| 12 | Jupyter Notebook /Anaconda / Python3.8. |

| | |
|---|---|
| 13 | Weka 3 - Data Mining with Open Source Machine Learning Software |
| 14. | Android Visual Studio |
| 15. | Sublime |
| 16. | Open Office, Adobe Reader |
| 17. | Oracle DBA |
| 18. | Rational Rose, Star Rose |

**Instructional materials**

| S.No | Details |
|---|---|
| 1 | Smart Class(Multimedia Projector) |
| 2 | Lab Manual/Course Files |
| 3 | NPTEL videos |
| 4 | Assignments |
| 5 | PPT |
| 6. | Google Classroom |
| 7. | MS Teams |

**Working models/ charts/ monogrammed**

| S. No | Details |
|---|---|
| 1 | Animations |
| 2 | Lab Description Charts |
| 3 | Lab Manuals |
| 4. | Peripherals' of Computer |

### 5.7.4 Consultancy (from Industry) (5)

Institute Marks : 5.00

**2020-21 (CAY)**

| Project Title | Duration | Funding Agency | Amount |
|---|---|---|---|
| Examination Management System | 1 year (Extension) | Anwarul Uloom College | 5,00,000.00 |
| | | | Total Amount (X): 5,00,000.00 |

**2019-20 (CAYm1)**

| Project Title | Duration | Funding Agency | Amount |
|---|---|---|---|
| Examination Management System | 3 years | Anwarul Uloom College | 5,00,000.00 |
| | | | Total Amount (Y): 5,00,000.00 |

**2018-19 (CAYm2)**

| Project Title | Duration | Funding Agency | Amount |
|---|---|---|---|
| Examination Management System | 3 years | Anwarul Uloom College | 5,00,000.00 |
| Fee Management System | 1 year | Anwarul Uloom College | 6,50,000.00 |
| | | | Total Amount (Z): 11,50,000.00 |

**2017-18 (CAYm3)**

| Project Title | Duration | Funding Agency | Amount |
|---|---|---|---|
| Examination Management System | 3 years | Anwarul Uloom College | 5,00,000.00 |
| | | | Total Amount(W): 5,00,000.00 |

Cumulative Amount(X + Y + Z) = Rs. 21,50,000.00

**5.8 Faculty Performance Appraisal and Development System (FPADS)** (30) Total Marks 30.00

Institute Marks : 30.00

Faculty members of Higher Educational Institutions today have to perform a variety of tasks pertaining to diverse roles. In addition to instruction, Faculty members need to innovate and conduct research for their self-renewal, keep abreast with changes in technology, and develop expertise for effective implementation of curricula. They are also expected to provide services to the industry and community for understanding and contributing to the solution of real life problems in industry.

Another role relates to the shouldering of administrative responsibilities and cooperation with other Faculty, Heads-of-Departments and the Head of Institute. An effective performance appraisal system for Faculty is vital for optimizing the contribution of individual Faculty to institutional performance.

An Appraisal mainly focuses on

1. Teaching, Learning and Evaluation related activities.
2. Co-curricular ,Profession related Activities
3. Research and Related Activities.

Faculty Performance Appraisal System The ultimate aim of appraisal of faculty performance is to ensure that the programme objectives are served best. The following methods

are practiced in the college, among other informal ways: The various assessment processes are designed to achieve the following objectives with respect to faculty:

a. Awareness of the various activities expected to be carried out by them.
b. Awareness of the ideas / parameters involved and methods of assessment
c. To have feedback on their performance in various rolls
d. To become aware of weakness and consciously work on them for improvement
e. To reward faculty who do well and counsel those who fare poorly
f. For teachers to point out improvements required in facilities and other requirements to meet student needs better.
g. Toassessthesuitabilityofateacherforasubjectorothercurricular/cocurricularactivitiesand to take corrective measures in time.

**NAWABSHAH ALAM KHAN COLLEGE OF ENGINEERING & TECHNOLOGY PERFORMANCE APPRAISAL REPORT :**

| S.No | NAME | | PARTICULARS |
|---|---|---|---|
| 1 | Name of the employee | : | |
| 2 | Designation | : | |
| 3 | Department | : | |
| 4 | Date of birth & age | : | |
| 5 | Highest educational qualification | : | |
| 6 | Date of joining – i) In the institution | : | |
| | ii) In the Present Post | : | |

| S.No | Item Name | Maximum Points | Points Obtained |
|---|---|---|---|
| 1 | **Academic Performance:** | 30 | |
| | Course Pass percentage : 100 % - 30 | | |
| | 90 to < 100% 25 | | |
| | 80 to <90% 20 | | |
| | 70 to < 80% --15 | | |
| | 60 to < 70% --10 | | |
| | 50 to < 60 %---5 | | |
| | %---5 < 50 % -- 0 | | |
| | Example: | | |
| | Subject1 : 30 | | |
| | Subject2 : 20 | | |
| | Average Points : 50/2 : 25 | | |
| | No marks for Lab Courses | | |
| 2 | **Research Publications in Journals/Conferences:** | 10 | |
| | 1 SCI Indexed Publication/international conferences : 10/ 5 | | |

| | | | |
|---|---|---|---|
| | National | | |
| | 1 Publication having ISSN/ Conferences reputed : 5/3 National | | |
| 3 | **FDPs attended:** | 10 | |
| | 6 Days programme : 5 | | |
| | 2 to 5 Days Programme : 3 | | |
| 4 | **Improvement in Teaching Learning Process:** | 20 | |
| | lecture, online MOOCs, online notesuploading | | |
| 5 | **Technical Programs organized (FDP/Workshops)** | 10 | |
| 6 | **HOD recommendation (Ex: Dept. responsibilty,NBA,NAAC coordinationetc.)** | 20 | |

| |
|---|
| **HOD Remarks** |
| **HOD** |
| **Principal Remarks** |
| **Principal** |

**Faculty Promotion list (2020-2021):**

| S.NO | Name of the Faculty | Date of Joining | Designation |
|---|---|---|---|
| 1. | Ms.Aizaz Sultana | 12-11-2016 | Assistant Professor |

**Faculty Promotion list (2019-2020):**

| S.NO | Name of the Faculty | Date of Joining | Designation |
|---|---|---|---|
| 1 | Dr.Khaja Nizam Uddin | 1July 2017 | Associate Professor |
| 2 | Mr.Mohammed Khaja Iftequar Ali Khan | 10 July 2017 | Assistant Professor |

**Faculty Promotion list (2018-2019):**

| S.NO | Name of the Faculty | Date of Joining | Designation |
|---|---|---|---|
| 1 | Mr.Mohammed Khaleel Ahmed | 11 February 2013 | Assistant Professor |
| 2 | Ms.Waseema Masood | 1 July 2013 | Assistant Professor |

**Faculty Award List (2018-2019)**:

| | Name of the Faculty | Date of Joining | Designation | Award |
|---|---|---|---|---|
| 1 | Mr. Mohammed Khaleel Ahmed | 10/01/2011 | Associate Professor | Rs. 2000/-<br>Techno Fest-2K18-Coordinator |
| 2 | Ms. Syeda Farhath Begum | 10/09/2012 | Associate Professor | Rs. 2000/-<br>Job Mela -2017-Dept Coordinator |
| 3 | Ms. Firdous Rehana | 20/08/2014 | Assistant Professor | Rs. 1000/-<br>Job Mela -2017-Dept Co-Coordinator |

**Faculty Award List (2019-2020)**:

| S. NO | Faculty Name | Date of Joining the Institution | Designation | Award |
|---|---|---|---|---|
| 1 | Dr. Mohammed S. Qaseem | 14/07/2018 | Professor | Rs. 5000/-<br>NAAC Accreditation work |
| 2 | Mr. Mohammed Khaleel Ahmed | 10/01/2011 | Associate Professor | Rs. 3000/-<br>NAAC Criteria –I Incharge |
| 3 | Mr. Mohammed Khaleel Ahmed | 10/01/2011 | Associate Professor | Rs. 2000/-<br>Graduation Day-Convener |

**Faculty Award List (2020-2021)**:

| S. NO | Faculty Name | Date of Joining the Institution | Designation | Award |
|---|---|---|---|---|
| 1 | Ms.Syeda Farhath Begum | 15/10/2012 | Associate Professor | Best Teacher award /Best Result |
| 2 | Ms.Ishrath Nausheen | 15/042015 | Assistant Professor | 2nd Best Result Award |

**Faculty Award List (2017-2018)**:

| | Name of the Faculty | Date of Joining | Designation | Award |
|---|---|---|---|---|
| 1 | Mr. Mohammed Khaleel Ahmed | 10/01/2011 | Associate Professor | Rs. 2000/-<br>Techno Fest-2K18-Coordinator |
| 2 | Ms. Syeda Farhath Begum | 10/09/2012 | Associate Professor | Rs. 2000/-<br>Job Mela -2017-Dept Coordinator |
| 3 | Ms. Firdous Rehana | 20/08/2014 | Assistant Professor | Rs. 1000/-<br>Job Mela -2017-Dept Co-Coordinator |

**Table 5.8.5 Faculty Award List (2017-2018)**

**Faculty Award List (2018-2019)**:

| S. NO | Faculty Name | Date of Joining the Institution | Designation | Award |
|---|---|---|---|---|
| 1 | Dr. Mohammed S. Qaseem | 14/07/2018 | Professor | Rs. 5000/-<br>NAAC Accreditation work |
| 2 | Mr. Mohammed Khaleel Ahmed | 10/01/2011 | Associate Professor | Rs. 3000/-<br>NAAC Criteria –I Incharge |
| 3 | Mr. Mohammed Khaleel Ahmed | 10/01/2011 | Associate Professor | Rs. 2000/-<br>Graduation Day-Convener |

**Table 5.8.6 Faculty Award List (2018-2019)**

**Faculty Award List (2019-2020)**:

| S. NO | Faculty Name | Date of Joining the Institution | Designation | Award |
|---|---|---|---|---|
| 1 | Dr. Mohammed S. Qaseem | 14/07/2018 | Professor | Rs. 3000/-<br>3 week SIP Orientation |
| 2 | Mr. Mohammed Khaleel Ahmed | 10/01/2011 | Associate Professor | Rs. 2000/-<br>3 week SIP Orientation |
| 3 | Mr. Mohammed Khaleel Ahmed | 10/01/2011 | Associate Professor | Rs. 2000/-<br>Graduation Day-Convener |
| 4 | Mr. Mohammed Khaleel Ahmed | 10/01/2011 | Associate Professor | Rs. 2000/-<br>Techno Vision-2020-Coordinator |

**Table 5.8.6 Faculty Award List (2019-2020)**

**5.9 Visiting/Adjunct/Emeritus Faculty etc.** (10)

Total Marks 10.00

Institute Marks : 10.00

Visiting Faculty

| S.No | Name of the faculty | Year |
|---|---|---|
| 1 | Ms.Seema Nasir | 2020-2021 |
| 2 | Ms.Nazneen Begum | 2020-2021 |
| 3 | Ms.Asma Sadiya | 2019-2020 |
| 4 | Ms.Seema Nasir | 2019-2020 |
| 5 | Ms.Nazneen Begum | 2019-2020 |
| 6 | Asma Sadiya | 2018-2019 |
| 7 | Viquar Unnisa | 2018-2019 |
| 8 | Mr.Mohammed Miskeen Ali | 2018-2019 |
| 9 | Mr.Ahmed Shahbaz | 2018-2019 |
| 10 | Dr.Abdul Nabi | 2017-2018 |
| 11 | Dr.Mohammed Sanaullah Qaseem | 2016-2017 |
| 12 | Mr. M. K. Iftequar Ali Khan | 2016-2017 |

## 6 FACILITIES AND TECHNICAL SUPPORT

**Total Marks 80.00**

### 6.1 Adequate and well equipped laboratories, and technical manpower (30)

Total Marks 30.00

Institute Marks : 30.00

| Sl. No | Laboratory Location | Name of the Laboratory | Number of students per setup (batch size) | Name of the important equipment | Weekly utilization status (All the courses for which the lab is utilized) | Technical man power support | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | Name of the technical staff | Designation | Qualification |
| 1 | CSE G104,105 | PPS Lab (Odd Sem)<br>PPS Lab (Even Sem) | 60 | Computer Systems with required Software with additional 15 Systems | 24 | Mr.Mohd Shahed | Instructor | B-Tech |
| 2 | CSE C-301 | IOT Lab(Even) | 30 | Computer Systems with required Softwares | 12 | Mr.Shah Mohammed Taquiuddin | Instructor | B-Tech |
| 3 | CSE C-302 | ML Lab / AI Lab<br>Python Programming Lab / ACS (Odd Sem) | 30 | Computer Systems with required Softwares | 12 | Mr.Shah Mohammed Taquiuddin | Instructor | B-Tech |
| 4 | CSE C-303 | OS Lab(Even)<br>CN lab / Cryptography & Network Security(odd) | 30 | Computer Systems with required Softwares | 12 | Mr.Md Moosa Ahmed | Instructor | B-Tech |
| 5 | CSE C-304 | DBMS(even)<br>WT Lab(odd) | 30 | Computer Systems with required Softwares | 12 | Mr.Md Moosa Ahmed | Instructor | B-Tech |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 6 | CSE C-305 | Linux/CD Lab | 30 | Computer Systems with required Softwares | 12 | Ms.Afreen Sultana | Instructor | B-Tech |
| 7 | CSE C-306 | Java(even sem)<br>C++/DM/DWDM Lab(odd) | 30 | Computer Systems with required Softwares | 12 | Ms.Afreen Sultana | Instructor | B-Tech |
| 8 | CSE C-109A | CO / STM Lab (even)<br>SE Lab(odd) | 30 | Computer Systems with required Softwares | 12 | Mr.Md Waseem Zeeshan | Instructor | B-Tech |
| 9 | CSE C-109B | IT Workshop Lab | 30 | Computer Systems with required Softwares | 12 | Mr.Md Waseem Zeeshan | Instructor | B-Tech |
| 10 | CSE C-109C | Data Advance Algorithms Lab(even)<br>DS / ADS(odd) | 30 | Computer Systems with required Softwares | 12 | Mr.Md Waseem Zeeshan | Instructor | B-Tech |
| 11 | CSE C-109D | Project Lab | 11 | Computer Systems with required Softwares | 12 | Mr.Mohd Shahed | Instructor | B-Tech |

**6.2 Additional facilities created for improving the quality of learning experience in laboratories** (25)

Total Marks 25.00

Institute Marks : 25.00

| S.no | Facility Name | Details | Reasons for creating facility | Utilizations | Areas in which students are expected to have enhanced learning | Relevance to Pos/PSOs |
|---|---|---|---|---|---|---|
| 1 | Computer Peripheral Assembly Lab | Using Scrap / Unused computers | To provide complete picture of hardware devices for better understanding of the subjects | By Students | Real time experience of dissembling, locating the devices, assembling the system | PO1,PO4,PO7 |
| 2 | Internet Facility | Ethernet/ Wi-Fi | Facility to staff and students for enhancing sharing of Teaching Learning resources. | By Students, faculties and staff | More Teaching Learning resource sharing | PO1,PO3,PO4, PO5,PO8, P012 |
| 3 | Smart class facility | Fully equipped shared Smart Class room with LCD projector and software's with the seating capacity of 60. Comfortable desks, chairs and teaching aids. Glass board, Fan, Tube light, chalk board | To provide ICT enabled Teaching Learning | By Students | Better understanding | 1,2,3,4, PO5,PO8, PO9, PO10 |
| 4 | Dept. Library | Having collection of Text Books, Reference Books , Journals, Project / seminar report. | To meet the needs of the students, To provide reference facilities, To refer advanced information for seminar, laboratory, projects, To know about the past research activities undertaken by the students | By Students, faculties and staff | Students and staff can refer text book and have a better understanding , preparing notes | PO1,PO2PO12 |
| 6 | Project Lab | Computers | Doing projects | By students for R&D, Project and to perform experiments beyond curriculum | Real time project works | PO5,PO10, PO12 |
| 7 | Printing | Printer is available in each lab | For taking printouts of lab experiments performed by students, printing of study material related to subject domains | By Students, faculties and staff | To enhance knowledge in all subject related domains | PO1,PO2,PO3,PO4,PO5, PSO1 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 8 | Lab Instructional guide | Lab manual of each lab subject is available in the lab | Lab manual includes guidelines (objective, steps/ algorithms/ flowcharts/pseudo code) to perform the experiment for their better understanding | By the students studying the respective subject and the faculties taking the lab for the first time | Respective subject lab | PO1,PO2,PO3,PO4,PO5, PSO1 |
| 9 | Centralized Computer Center | Computers with internet connection with xerox facility | Facility to students for enhancing Teaching Learning | During college hours | Better understanding | PO1,PO3,PO4, PO5,P012 |

**6.3 Laboratories: Maintenance and overall ambience** (10)

Total Marks 10.00

Institute Marks : 10.00

To maintain the laboratories a departmental committee is constituted headed by the Head of the department. This committee is responsible for maintenance. All the laboratories are maintained periodically. Annual maintenance contract is given to the vendor for smooth maintenance of the laboratory.

**Policy:** Equipment is operated in accordance with manufacturer's instructions and in a way which minimizes the cost of repairs and maintenance.

Procedure:

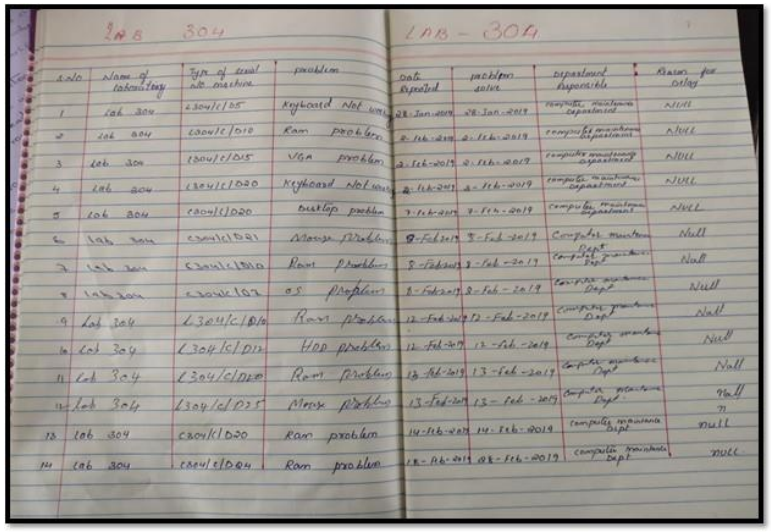
1 Do's and Don'ts and Safety measures rules are displayed in each laboratory.
2 Regular checkup of equipment is carried out before the commencement of the semester
3 Breakdown Maintenance register is kept in the laboratories
4 Well Technical Staff are available for maintenance of Computer and Electronic equipments and software.
5 Servicing of each laboratory is doing frequently.
6 Calibration of the each laboratory is done frequently.
7 Department having internet of 200 Mbps and Wi-Fi of 200 Mbps is maintained for students and Faculty usage.
8 All necessary PC system regular software like Microsoft office, browser, lab software; antivirus software etc, is installed and maintained.

**Overall Ambience**

1. Department has enough labs which are used for all the years on timetable basis to meet the curriculum requirements
2. The courses which have practical work will be provided labs every week.
3. Provides a network of 30 systems in each lab with windows 7 Operating System, Turbo C Compiler and all the required software's
4. Conditions of chairs/benches are in good condition. Chairs are provided for individual students in Labs.
5. Labs are equipped with sufficient hardware and software to run program specific curriculum and off program curriculum.
6. Sufficient laboratory manuals are distributed to students.
7. Sufficient number of windows is available for ventilation and natural light
8. Lighting system is very effective, along with the AC in every corner of the Lab.
9. Cup-boards are available in each lab for students to place their belongings.
10. Each Lab is equipped with white board, computer, Internet, and such other amenities.
11. Hard disc cleanup and defragmentation utilities regularly
12. All computers are checked for applications at start of semester

Exclusively, a project lab has been provided for the students to carry out their mini and major project work

| Sno | Name of the Laboratory | Type and serial number of the Machine | Problem | Date Reported | Problem Solved | Department responsible for clearing the defect | Reasons for delay |
|---|---|---|---|---|---|---|---|
| 1 | CSE C-304 | CSE/ C304/1121<br>CSE/ C304/1125<br>CSE/ C304/1128<br>CSE/ C304/1139<br>CSE/ C304/1145 | Mouse has problem | 1/04/19<br>3/04/19<br>3/04/19<br>5/04/19<br>22/6/19<br>22/6/19<br>22/6/19<br>23/6/19<br>25/7/19 | SOLVED | Computer Maintenance Department | --- |
| 2 | CSE C-305 | CSE/ C305/1195<br>CSE/ C305/1198<br>CSE/ C305/1200<br>CSE/ C305/1215 | No signal, RESET | 22/6/19<br>22/6/19<br>22/6/19<br>28/6/19<br>24/7/19<br>10/8/19 | SOLVED | Computer Maintenance Department | --- |
| 3 | CSE C-306 | CSE/ C306/1221<br>CSE/ C306/1230<br>CSE/ C306/1241<br>CSE/ C306/1249 | Mother Board and HDD not working | 22/7/19<br>22/7/19<br>23/9/19 | SOLVED | Computer Maintenance Department | --- |
| 4 | CSE C-109A | CSE/ C109A/1251<br>CSE/ C109A/1257<br>CSE/C109A/1260<br>CSE/C109A/1265<br>CSE/C109A/1268<br>CSE/C109A/1269<br>CSE/C109A/1270<br>CSE/C109A/1279 | RAM problem, SMPS | 22/7/19<br>26/12/19<br>7/01/20<br>13/1/20<br>28/1/20<br>29/1/20 | SOLVED | Computer Maintenance Department | ---- |



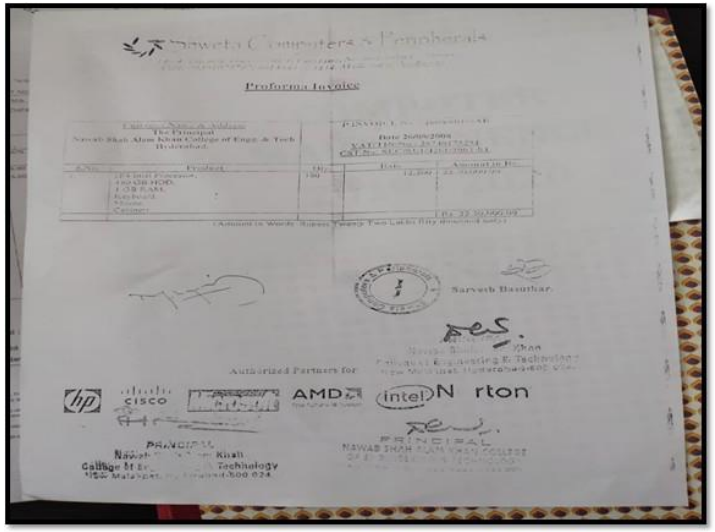
LAB 304

| s.no | Name of laboratory | Type of devel ice machine | problem |
|---|---|---|---|
| 1 | Lab 304 | C304/C/D05 | Keyboard Not working |
| 2 | Lab 304 | C304/C/D10 | Ram problem |
| 3 | Lab 304 | C304/C/D15 | VGA problem |
| 4 | Lab 304 | C304/C/D20 | Keyboard Not working |
| 5 | Lab 304 | C304/C/D20 | Desktop problem |
| 6 | Lab 304 | C304/C/D01 | Mouse Problem |
| 7 | Lab 304 | C304/C/D10 | Ram problem |
| 8 | Lab 304 | C304/C/07 | OS problem |
| 9 | Lab 304 | C304/C/D06 | Ram problem |
| 10 | Lab 304 | C304/C/D12 | HDD problem |
| 11 | Lab 304 | C304/C/D20 | Ram problem |
| 12 | Lab 304 | C304/C/D25 | Mouse problem |
| 13 | Lab 304 | C304/C/D20 | Ram problem |
| 14 | Lab 304 | C304/C/D04 | Ram problem |

LAB - 304

| Date Reported | problem solved | department responsible | Reason for delay |
|---|---|---|---|
| 28-Jan-2019 | 28-Jan-2019 | computer maintenance department | NILL |
| 2-Feb-2019 | 2-Feb-2019 | computer maintenance department | NULL |
| 2-Feb-2019 | 2-Feb-2019 | computer maintenance department | NULL |
| 2-Feb-2019 | 2-Feb-2019 | computer maintenance department | NULL |
| 7-Feb-2019 | 7-Feb-2019 | computer maintenance department | NULL |
| 8-Feb-2019 | 8-Feb-2019 | Computer maintenance Dept | Null |
| 8-Feb-2019 | 8-Feb-2019 | Computer maintenance Dept | Null |
| 8-Feb-2019 | 8-Feb-2019 | Computer maintenance Dept | Null |
| 12-Feb-2019 | 12-Feb-2019 | Computer maintenance Dept | Null |
| 12-Feb-2019 | 12-Feb-2019 | Computer maintenance Dept | Null |
| 13-Feb-2019 | 13-Feb-2019 | Computer maintenance Dept | Null |
| 13-Feb-2019 | 13-Feb-2019 | Computer maintenance Dept | Null |
| 14-Feb-2019 | 14-Feb-2019 | computer maintenance Dept | null |
| 18-Feb-2019 | 18-Feb-2019 | computer maintenance Dept | null |

FIGURE 6.3.1 MAINTENANCE REGISTER



Proforma Invoice

Sarveh Basutkar

Authorized Partners for

PRINCIPAL

PRINCIPAL

FIGURE 6.3.2 PURCHASE ORDER

**6.4 Project laboratories** (5)

Total Marks 5.00

Institute Marks : 5.00

To do projects there is a LAB with 10 systems. The lab will be utilized by all the students who are interested to do the projects. High speed Internet facility is always available to these systems. The systems can support advanced software which are useful in projects.

A dedicated lab is there exclusively for the project works to be carried out by the students. and Wifi facility is provided to both Student and Faculty. who are doing project we are also providing Different Languages Book for reference

**Software Available**

| S.no | Software available | Utilization |
|---|---|---|
| 1 | Turbo C | UG students, PG students, Research Scholars and Faculty |
| 2 | JAVA SE development | UG students, PG students, Research Scholars and Faculty |
| 3 | Microsoft Visual Studio | UG students, PG students, Research Scholars and Faculty |
| 4 | Microsoft SQL Server, MySQL | UG students, PG students, Research Scholars and Faculty |
| 5 | Apache Tomcat | UG students, PG students, Research Scholars and Faculty |
| 6 | Microsoft Windows GNU/Linux | UG students, PG students, Research Scholars and Faculty |
| 7 | Python | UG students, PG students, Research Scholars and Faculty |
| 8 | Visual Paradigm | UG students, PG students, Research Scholars and Faculty |
| 9 | Weka Tools | UG students, PG students, Research Scholars and Faculty |
| 10 | Sublime | UG students, PG students, Research Scholars and Faculty |

**Table 6.4.1 Details of available Software in Project laboratory**

**6.5 Safety measures in laboratories** (10)

Total Marks 10.00

Institute Marks : 10.00

| SNO | NAME OF THE LABORATORY | SAFTEY MEASURES | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | General Rules of Conduct in Laboratories are displayed | Specific Safety Rules for students displayed. | Fire extinguisher | Periodical servicing of the lab equipment | Appropriate storage areas If any problem arises with system report it to the lab in charge | Don't insert floppies, CDs and Pen drives without prior permission | Good Earthing |
| 1 | CSE G104,105 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2 | CSE C-301 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 3 | CSE C-302 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 4 | CSE C-303 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 5 | CSE C-304 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 6 | CSE C-305 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 7 | CSE C-306 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 8 | CSE C-109A | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 9 | CSE C-109B | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 10 | CSE C-109C | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 11 | CSE C-109D | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

**Table 6.4.2 Details of Safety measures in laboratories**

## 7 CONTINUOUS IMPROVEMENT (50)

**Total Marks 50.00**

**7.1 Actions taken based on the results of evaluation of each of the POs & PSOs** (20)

Total Marks 20.00

Institute Marks : 20.00

### POs Attainment Levels and Actions for Improvement- (2020-21)

| POs | Target Level | Attainment Level | Observations |
|---|---|---|---|
| **PO 1 : Engineering Knowledge** | | | |
| PO 1 | 1.6 | 1.78 | Target Achieved |
| 1. Proposed to conduct more workshops, seminars and Project Expos. 2. The remedial classes were conducted for slow learners beyond the regular planned classes. | | | |
| **PO 2 : Problem Analysis** | | | |
| PO 2 | 1.5 | 1.59 | Target Achieved |
| 1. Planning To Improve The Technical Knowledge By Organizing Tech Fests. 2. Special Guest lecture are arranged. | | | |
| **PO 3 : Design/development of Solutions** | | | |
| PO 3 | 1.5 | 1.43 | Target Not Achieved |
| 1. Basic knowledge of addressing modes not well understood. 2. Special classes are conducted. 3. Video lectures are planned for designing aspects. | | | |
| **PO 4 : Conduct Investigations of Complex Problems** | | | |
| PO 4 | 1.5 | 1.41 | Target not Achieved |
| 1. Practical approach of teaching programming to be adapted. 2. More problems will be given for practice | | | |
| **PO 5 : Modern Tool Usage** | | | |
| PO 5 | 1.5 | 1.50 | Target Achieved |
| 1. Practical approach of teaching programming to be adapted. 2. More problems will be given for practice | | | |
| **PO 6 : The Engineer and Society** | | | |
| PO 6 | 1.2 | 1.38 | Target Achieved |
| 1. Students are motivated to participate in the social service club based activities organized by institute. | | | |
| **PO 7 : Environment and Sustainability** | | | |
| PO 7 | 1.4 | 1.41 | Target Achieved |
| 1. More assembly level programming to be taught in tutorial classes | | | |
| **PO 8 : Ethics** | | | |
| PO 8 | 1.5 | 1.51 | Target Achieved |
| 1. Classes related to Professional ethics and Gender sensitization lab associated with their concerned core course of study were conducted as per plan during the respective periods to realize role of engineering ethics and social responsibility. | | | |
| **PO 9 : Individual and Team Work** | | | |
| PO 9 | 1.5 | 1.40 | Target not Achieved |
| 1. Students are grouped to develop the academic final major year and mini projects the team or group efforts was monitored by conducting the reviews. 2. Symposium are conducted in each academic year to develop the leadership and team based skills of students. | | | |
| **PO 10 : Communication** | | | |

| | | | |
|---|---|---|---|
| PO 10 | 1.2 | 1.37 | Target Achieved |
| 1. Seminars, symposiums and conferences of inter college participation are motivated to enhance the aspects of communication/skills. 2. Professional Communication in English and English Language Communication Skills Lab subjects were conducted by faculties. | | | |
| **PO 11 : Project Management and Finance** | | | |
| PO 11 | 1.4 | 1.30 | Target not Achieved |
| 1. Planned and schedule for the student participation in entrepreneurship training programs. 2. Planned to conduct special classes on management related subjects. | | | |
| **PO 12 : Life-long Learning** | | | |
| PO 12 | 1.5 | 1.50 | Target Achieved |
| 1. Increase the facilities to the optimum utilization of Library Resources. | | | |

## PSOs Attainment Levels and Actions for Improvement- (2020-21)

| PSOs | Target Level | Attainment Level | Observations |
|---|---|---|---|
| **PSO 1 : Develop a sound understanding of the concepts and the operational aspects of computer systems.** | | | |
| PSO 1 | 1.5 | 1.49 | Target not achieved. |
| 1.More examples on virtual memory to be practiced by students in extra classes. | | | |
| **PSO 2 : Apply ethical software development practices in providing real time solutions using latest development tools.** | | | |
| PSO 2 | 1.5 | 1.60 | Target achieved. |
| 1. Planning To Improve The Technical Knowledge By Organizing Tech Fests. | | | |
| **PSO 3 : Demonstrate their adaptability to the ever evolving societal needs in multidisciplinary fields.** | | | |
| PSO 3 | 1.4 | 1.35 | Target not achieved. |
| 1.Variety of problems to be solved , to make students understand better. | | | |

7.2 **Academic Audit and actions taken thereof during the period of Assessment** (10) Total Marks 10.00

Institute Marks : 10.00

**A. Academic Audit Assessment**

**Internal Audit**

The detail of various academic activities in the form of documents given below has to be maintained by the entire faculty. These documents shall be made available to the internal auditors as and when required.

1. Course file for each course
2. Counseling records
3. Remedial classes Details
4. Tutorial classes Details
5. Course end Survey(Feedback)
6. Lab Manuals
7. Sample Records

8. Guest lectures
9. Workshops / Industrial visits
10. Faculty publication Details

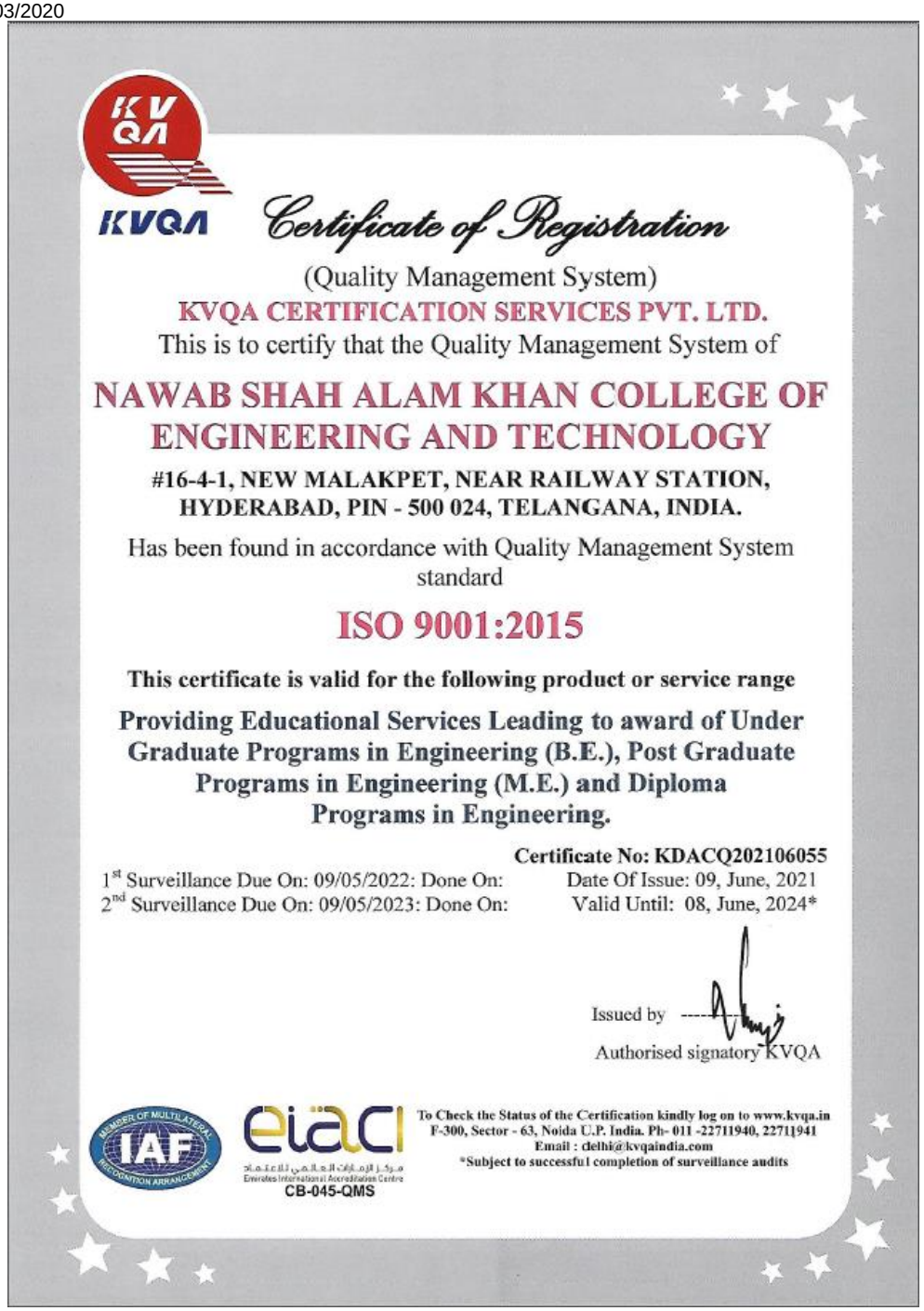
a. Department Vision & Mission
b. List of PEOs ,PSOs and POs
c. Course Out comes & Mapping of course out comes with POs
d. Mapping of course outcomes with PSO's
e. Syllabus copy
f. Individual time table
g. Detailed lecture plan
h. Assignment Questions
i. Sample assignment scripts
j. Unit-wise course material
k. Mid questions with CO mapping
l. Sample mid answer scripts
m. Material collected from Internet/Websites/ PPT's
n. University Questions / Question Bank
o. Advanced topics beyond the syllabus
p. Course attainment value for internal marks
q. Course attainment value for External marks
r. Final course attainment
s. CO to PO attainment
t. Remarks and Recommendations

**External Audit**

Academic Audit has done inviting faculty members from the university and other reputed institutions. Academic Audit is being done once a year for the following:-

1. Faculty
2. Labs
3. Infrastructure
4. MoUs with Industry.

Academic Audit has been done inviting from KVQA Certification Services Pvt. Ltd which has certified that the Quality Management system of NSAKCET is found in accordance with the Quality Management System standard ISO 9001:2015 on 9th June 2021.



KVQA

# Certificate of Registration

(Quality Management System)

**KVQA CERTIFICATION SERVICES PVT. LTD.**

This is to certify that the Quality Management System of

## NAWAB SHAH ALAM KHAN COLLEGE OF ENGINEERING AND TECHNOLOGY

**#16-4-1, NEW MALAKPET, NEAR RAILWAY STATION, HYDERABAD, PIN - 500 024, TELANGANA, INDIA.**

Has been found in accordance with Quality Management System standard

## ISO 9001:2015

**This certificate is valid for the following product or service range**

**Providing Educational Services Leading to award of Under Graduate Programs in Engineering (B.E.), Post Graduate Programs in Engineering (M.E.) and Diploma Programs in Engineering.**

**Certificate No: KDACQ202106055**

1st Surveillance Due On: 09/05/2022: Done On:
2nd Surveillance Due On: 09/05/2023: Done On:

Date Of Issue: 09, June, 2021
Valid Until: 08, June, 2024*

Issued by ----
Authorised signatory KVQA

IAF MEMBER OF MULTILATERAL RECOGNITION ARRANGEMENT

eiaci Emirates International Accreditation Centre

CB-045-QMS

To Check the Status of the Certification kindly log on to www.kvqa.in
F-300, Sector - 63, Noida U.P. India. Ph- 011 -22711940, 22711941
Email : delhi@kvqaindia.com
*Subject to successful completion of surveillance audits

**7.3 Improvement in Placement, Higher Studies and Entrepreneurship** (10) Total Marks 10.00

Institute Marks : 10.00

**The Training and Placement cell**

The Training and Placement cell of the college handles all placement activities. The main mission of the placement cell is to create an extreme sense of confidence in students by counseling, engaging them in a variety of activities, which in turn shall also contribute in honing up their skills: encouraging them to put their best to know how, enabling us to create opportunities and placing them professional enterprises and involve the students in nation building.

Role of Training and Placement cell

Conducted long term and short time training sessions to the students such as Campus Recruitment Training (CRT) classes, Infosys training classes, Tech Mahindra training classes, etc... For improvement in placement of the student's, lectures or training sessions are arranged from the industrial exports.

Online examinations like co-cubes etc. are conducted for the assessment of the students' skills.

Also, mock interview maybe conducted before any campus drive and it includes technical interview, HR interview and group discussion.

Apart from the training provided during the regular course curriculum, the college also provides an extensive training program to prepare the students for the recruitment process in their final year.

Maintaining updated database and job profile, recruitment pattern of the companies and thus helping students analyze and prepare.

Inviting Industry personnel periodically to enrich the knowledge base of students community with the latest technological innovations and industry practices.

Nurturing cordial relationship with the Industries, inviting Organizing campus recruitment drives, organizing

technical seminars, workshops and other technical sessions. The departmental Placement Coordinator will

coordinate with the college TPO for any approved program to be conducted in the departmental level.

| Item | LYG (2017-18) P1 | LYG (2016-17) P2 | LYG (2015-16) P3 | LYGm1 (2014-15) P4 |
|---|---|---|---|---|
| Total No of Final Year Students(N) | 47.00 | 36.00 | 44.00 | 30.00 |
| No of students placed in the companies or government sector(X) | 36.00 | 20.00 | 18.00 | 14.00 |
| No of students admitted to higher studies with valid qualifying scores(GATE or equivalent State or National Level tests, GRE, GMAT etc.) (Y) | 7.0 | 6.00 | 6.00 | 2.00 |
| No of students turned entrepreneur in engineering/technology (Z) | 1.00 | 1.00 | 1.00 | 1.00 |
| x + y + z = | 44.00 | 27.00 | 25.00 | 17.00 |
| Placement Index [ (X+Y+Z)/N ] :<br>Average placement: [I (P1+P2+P3)/3] = 0.6.26 Assessment [40 * avg. placement] = 25.04 | 0.93 | 0.75 | 0.57 | 0.56 |

SOLIX®
*Empowering the Data-driven Enterprise*

SolixSoftech/HR/OL/Sep-19/No.177

15 November 2019

**Mr. S M Azam Ahmed,**
**22-4-57, Gachi Chabutra,**
**Alijah Kotla Yakutpura,**
**Hyderabad, Telangana-500023**

**Dear Azam Ahmed,**

**Sub: Offer of Employment.**

This is with reference to your interaction for a suitable opening with us. We are pleased to offer you an employment with Solix Softech Pvt Ltd. for the position of **"Trainee- Software Engineer (Level – JM1)"** based at our Hyderabad Office. You are required to join us on **2 December 2019**. Incase If you have not joined, as per the specified date of joining, this offer stands cancelled unless otherwise extended in writing by the undersigned. Your CTC Annual package would be **2, 40,000/- (Rupees Two Lakhs Forty Thousand Only).**

This offer has been made based on the information furnished by you at the time of interaction. However, if there is any discrepancy in the documents/certificates furnished by you, we may have the option of withdrawing this offer made to you. This offer is subject to the reference check done by us as provided at the time of joining.

You will be governed by the rules and regulations of the company applicable to you, from time to time. For a detailed employment terms you are requested to go through the Copy of the terms of appointment document available with HR. On the date of your joining you are requested to meet the undersigned at 10 AM to complete the joining formalities at H.No. 12-13-521/5, Lane 13, Street 14, Tarnaka, Secunderabad –17.

You shall be issued an appointment with detailed terms of service on the date of joining. You are requested to submit the documents as per the annexure to this letter at the time of joining.

Upon your joining you are assigned to a supervisory, who would discuss with you the Role & Responsibilities and a detailed Key Result Areas for your Job.

Please sign the duplicate copy of this letter and return to us as a token of acceptance of this Offer within 3 days of receipt of this letter indicating your date of joining the Organization.

We are looking forward for your association in building your career and achieve our organizational goals.

Sincerely,
for **Solix Softech Pvt.Ltd.,**

**P.S.Somayajulu**
**Vice President – India Operations**

Page 1 of 2 Initial _____

Empowering the Data-driven Enterprise

**Solix Softech Private Limited**
(A 100% Subsidiary of Solix Technologies Inc., USA)
H.No. 12-13-521/5, Lane No.13, Street No.14, Tarnaka, Secunderabad -- 500 017.

**7.4 Improvement in the quality of students admitted to the program** (10)

Total Marks 10.00

Institute Marks : 10.00

| Item | 2021-22 | 2020-21 | 2019-20 | 2018-19 |
|---|---|---|---|---|
| National Level Entrance Examination | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 |
| NA | 0 | 0 | 0 | 0 |
| State/ University/ Level Entrance Examination/ Others | 40 | 42 | 40 | 36 |
| | 26369 | 26429 | 41865 | 43390 |
| EAMCET | 95348 | 64122 | 74976 | 93120 |
| Name of the Entrance Examination for Lateral Entry or lateral entry details | 6 | 6 | 6 | 0 |
| ECET | 6085 | 1767 | 458 | 0 |
| | 20390 | 2391 | 1897 | 0 |
| Average CBSE/Any other board result of admitted students(Physics, Chemistry & Maths) | | | | |

## 8 FIRST YEAR ACADEMICS (50) Total Marks 42.57

### 8.1 First Year Student-Faculty Ratio (FYSFR) (5) Total Marks 5.00

Institute Marks : 5.00

| S.No | Name | PAN No | Qualification | Area of Specialization | Designation | Date of Joining | Date on which Designated as Professor/Associate Professor | Currently Associated(Y/N) | Nature of Association(regular/Contract/Adjunct) | If contractual mention Full time or Part time | Date of Leaving (In Case Currently Associated is "No") |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | |
| 1 | FARHEEN SULTANA | DAIPS7511F | M.Sc | PURE MATHEMATICS | Associate Professor | 10-Jan-2009 | 2-Feb-2014 | Yes | Regular | | |
| 2 | M D OSMAN TOUFIQ | CGPPM7630D | M.Phil | APPLIED MATHEMATICS | Associate Professor | 10-Oct-2016 | 10-Oct-2016 | Yes | Regular | | |
| 3 | KHASIM ALI | AQWPK5922F | M.Sc,PhD | A Study on Surface Instailities in Newtonian and NN FLUIDS | Professor | 20-Jul-2017 | 20-Jul-2017 | Yes | Regular | | |
| 4 | BEGUM IMRANA | ATCPB2619R | M.Sc | PURE MATHEMATICS | Assistant Professor | 7-Jan-2015 | 7-Jan-2015 | Yes | Regular | | |
| 5 | RAHEEMA SULTANA | MCIPS0005F | M.Sc | PURE MATHEMATICS | Assistant Professor | 17-Jun-2015 | 17-Jun-2015 | Yes | Regular | | |
| 6 | RIYAZ QURESHI | AAVPQ1033G | M.sc,B.Ed | MATHEMATICS | Assistant Professor | 3-Oct-2020 | 3-Oct-2020 | Yes | Regular | | |
| 7 | MOHAMMED ASADULLAH | ABLPA4490N | M.Sc, PhD | PHYSICS | Professor | 2-Jun-2017 | 2-Jun-2017 | Yes | Regular | | |
| 8 | SHAIK AMER AHMED | HBMPS8856L | M.Sc | PHYSICS | Assistant Professor | 3-Oct-2020 | 3-Oct-2020 | Yes | Regular | | |
| 9 | V. ARUN KUMAR | ARZPV4100E | M.Sc | PHYSICS | Assistant Professor | 3-Oct-2020 | 3-Oct-2020 | Yes | Regular | | |
| 10 | RAJNIKANTH | BKAPT5106P | M.Sc | PHYSICS | Assistant Professor | 3-Oct-2020 | 3-Oct-2020 | Yes | Regular | | |
| 11 | DR MIR MOAZAM ALI | ACQPM2695B | Msc,Ph.D | CHEMISTRY | Professor | 11-Oct-2010 | 11-Oct-2010 | Yes | Regular | | |
| 12 | WAZIDA BEGAM | BNHPB4320B | M.Sc | ORGANIC CHEMISTRY | Assistant Professor | 1-Aug-2011 | 1-Aug-2011 | Yes | Regular | | |
| 13 | SADIA NAUSHEEN | AGZPN1537G | M.Sc ,B.Ed | ORGANIC CHEMISTRY | Assistant Professor | 7-Oct-2013 | 7-Oct-2013 | Yes | Regular | | |
| 14 | MD JAWEED | APRPJ6036P | M.Sc | CHEMISTRY | Assistant Professor | 3-Oct-2020 | 3-Oct-2020 | Yes | Regular | | |
| 15 | SABIHA KHATOON | CMBPK0479C | MA | MASTER OF ARTS IN ENGLISH | Assistant Professor | 25-Aug-2009 | 25-Aug-2009 | Yes | Regular | | |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | ASIMA PARVEEN | CBAPP9085M | MA | ENGLISH | Assistant Professor | 27-Aug-2014 | 27-Aug-2014 | Yes | Regular | | |
| 17 | BIJAPUR ARIFA | CJBPB6310E | MA | ENGLISH | Assistant Professor | 17-Aug-2015 | 17-Aug-2015 | Yes | Regular | | |
| 18 | MUMTAZ JAHAN | CFUPJ6541N | M.A,B.Ed | ENGLISH | Assistant Professor | 3-Oct-2020 | 3-Oct-2020 | Yes | Regular | | |
| 19 | ASMA SADIAH | DVWPS3326H | M.A | POLITICAL SCIENCE | Assistant Professor | 3-Oct-2020 | 3-Oct-2020 | Yes | Regular | | |
| 20 | AZEEZA SHAHEEN | EXTPS2866E | MBA | MASTER OF BUSINESS ADMINISTRATION | Assistant Professor | 30-Jul-2013 | 30-Jul-2013 | Yes | Regular | | |
| 21 | NISAR AHMED | AWGPA9273K | MBA | MASTER OF BUSINESS ADMINISTRATION | Associate Professor | 7-Apr-2014 | 4-Jun-2019 | Yes | Regular | | |
| 22 | MOHD ABDULSATTAR | GGPPS9177D | MBA | MASTER OF BUSINESS ADMINISTRATION | Assistant Professor | 21-Nov-2014 | 21-Nov-2014 | Yes | Regular | | |
| 23 | MUJEEBUDDIN | DISPM7737R | MBA | MASTER OF BUSINESS ADMINISTRATION | Assistant Professor | 25-Jun-2015 | 25-Jun-2015 | Yes | Regular | | |
| 24 | QIZER UNNISA | AFEPU2196L | MBA | MASTER OF BUSINESS ADMINISTRATION | Assistant Professor | 7-Jul-2015 | 7-Jul-2015 | Yes | Regular | | |
| 25 | KHAN FASIUDDIN | CIXPK6584J | MBA | MASTER OF BUSINESS ADMINISTRATION | Associate Professor | 4-Jul-2016 | 4-Jul-2016 | Yes | Regular | | |
| 26 | SAMEER MAJEED | BEJPM3945Q | MBA | MASTER OF BUSINESS ADMINISTRATION | Assistant Professor | 3-Oct-2020 | 3-Oct-2020 | Yes | Regular | | |
| 27 | MOHAMMED TOUFEEQ | ARPPT2500E | M.Tech | STRUCTURAL ENGINEERING | Assistant Professor | 14-Jul-2016 | 14-Jul-2016 | Yes | Regular | | |
| 28 | USAMA BIN AL AMOODI | BVAPA2167G | M.Tech | STRUCTURAL ENGINEERING | Assistant Professor | 1-Sep-2016 | 1-Sep-2016 | Yes | Regular | | |
| 29 | RAZA AHMED | AUUPK5809M | MS | HVAC | Assistant Professor | 7-Jan-2010 | 7-Jan-2010 | Yes | Regular | | |
| 30 | MD MUSHTAQ | ARQPA2573D | M.Tech | PRODUCTION ENGINEERING | Assistant Professor | 1-Mar-2016 | 1-Mar-2016 | Yes | Regular | | |
| 31 | RASHID AHMED SIDDIQUI | DCPPS8793J | M.Tech | CAD/CAM | Assistant Professor | 6-May-21 | | Yes | Regular | | |
| 32 | ZAHOORA ABID | AWSPA0264G | M.Tech | CSE | Assistant Professor | 15-Apr-2015 | 15-Apr-2015 | Yes | Regular | | |
| 33 | AIZAZ SULTANA | DXPPS0919M | M.Tech | CSE | Assistant Professor | 12-Nov-2016 | 12-Nov-2016 | Yes | Regular | | |
| 34 | SYEDA ARSHIA LATEEF | ANTPL0262B | M.Tech | CSE | Assistant Professor | 1-Jul-2017 | 1-Jul-2017 | Yes | Regular | | |
| 35 | UZMA HAROON | BCWPH4275F | M.Tech | COMPUTER SCIENCE | Assistant Professor | 12-Mar-2020 | 12-Mar-2020 | Yes | Regular | | |
| 36 | QAZI MOHAMMED ABDUL BASHEER | EXKPB3072C | M.Tech | IT | Associate Professor | 12-Mar-2020 | 12-Mar-2020 | Yes | Regular | | |
| 37 | FATIMA MOHAMMED | FDWPM4949E | M.E. | EEE | Assistant Professor | 1-Mar-2019 | 1-Mar-2019 | Yes | Regular | | |
| 38 | MAAZ AHMED | EPWPM0663A | M.Tech | EEE | Assistant Professor | 2-Jul-2018 | 2-Jul-2018 | Yes | Regular | | |
| 39 | NASEEB KHATOON | BNNPK9919F | M.E. | EEE | Assistant Professor | 29-Sep-2019 | 29-Sep-2019 | Yes | Regular | | |
| 40 | MD IBRAHIM | DJYPM4701A | M.Tech | EEE/POWER ELECTRONICS & DRIVES | Assistant Professor | 3-Oct-2020 | 3-Oct-2020 | Yes | Regular | | |

**Please provide First year faculty information considering load for the particular program**

| Year | Number Of Students(approved intake strength) N | Number of Faculty members(considering fractional load) F | FYSFR (N/F) | *Assessment=(5*20)/FYSFR(Limited to Max.5) |
|---|---|---|---|---|
| 2017-18(CAYm2) | 600 | 40 | 15 | 6.6 |
| 2018-19(CAYm1) | 600 | 40 | 15 | 6.6 |
| 2019-20(CAY) | 600 | 36 | 16.6 | 6.02 |
| 2020-21(CAY) | 600 | 34 | 17.6 | 5.68 |
| **Average** | 600 | 37.5 | 16.05 | 6.22 |
| | | | | |

**8.2 Qualification of Faculty Teaching First Year Common Courses** (5) Total Marks 2.00

Institute Marks : 2.00

| Year | x (Number Of Regular Faculty with Ph.D) | y (Number Of Regular Faculty with Post graduate Qualification) | RF (Number Of Faculty Members required as per SFR of 20:1 | Assessment Of Faculty Qualification [ (5x + 3y) / RF ] |
|---|---|---|---|---|
| 2017-18 | 2 | 22 | 30 | 2.00 |
| 2018-19 | 2 | 24 | 30 | 2.00 |
| 2019-20 | 2 | 25 | 30 | 2.00 |
| 2020-21 | 2 | 25 | 30 | 2.00 |

Average Assessment: 2.00

**8.3 First Year Academic Performance** (10) Total Marks 5.57

Institute Marks : 5.57

| Academic Performance | 2020-21 | 2019-2020 | 2018-19 |
|---|---|---|---|
| Mean of CGPA or mean percentage of all successful students(X) | 5.14 | 5.96 | 5.85 |
| Total Number of successful students(Y) | 60 | 60 | 47 |
| Total Number of students appeared in the examination(Z) | 60 | 60 | 58 |
| API [X*(Y/Z)] | 5.14 | 5.96 | 4.74 |

Average API[ (AP1+AP2+AP3)/3 ] : 15.84/3

Assessment [ 1.5 * Average API] : 5.28

**8.4 Attainment of Course Outcomes of first year courses** (10) Total Marks 10.00

**8.4.1 Describe the assessment processes used to gather the data upon which the evaluation of Course Outcomes of first year is done** (5) Institute Marks : 5.00

**8.4.1 Describe the assessment processes used to gather the data upon which the evaluation of Course Outcomes of first year is done**

Scheme and Syllabus (Subject wise) is provided by the University. We have developed course outcomes using Bloom taxonomy and consequently assignments tests quiz practical and internal exams and projects are aligned to the COs addressing the same levels of Blooms Taxonomy. Generally 1st unit covers **Remembering level (BTL1) and CO1. The 2nd unit and first half of 3rd Unit cover understanding (BTL2) and CO2**. The remaining part of 3rd unit covers **applying level and analysing level and CO3**, 4th and 5th unit covers **Evaluating and creating level and CO4.**

But it may vary from subject to subject whereas some subjects may cover only four level, some may five or all six levels. For evaluation of COs well defined statistical technique is used to map the question with the CO and mapping with the POs and PSOs. Since the question wise results of students from university are not available, analysis of CO with question is limited to internal examinations, assessment of lab practical, assignments, Quiz only.

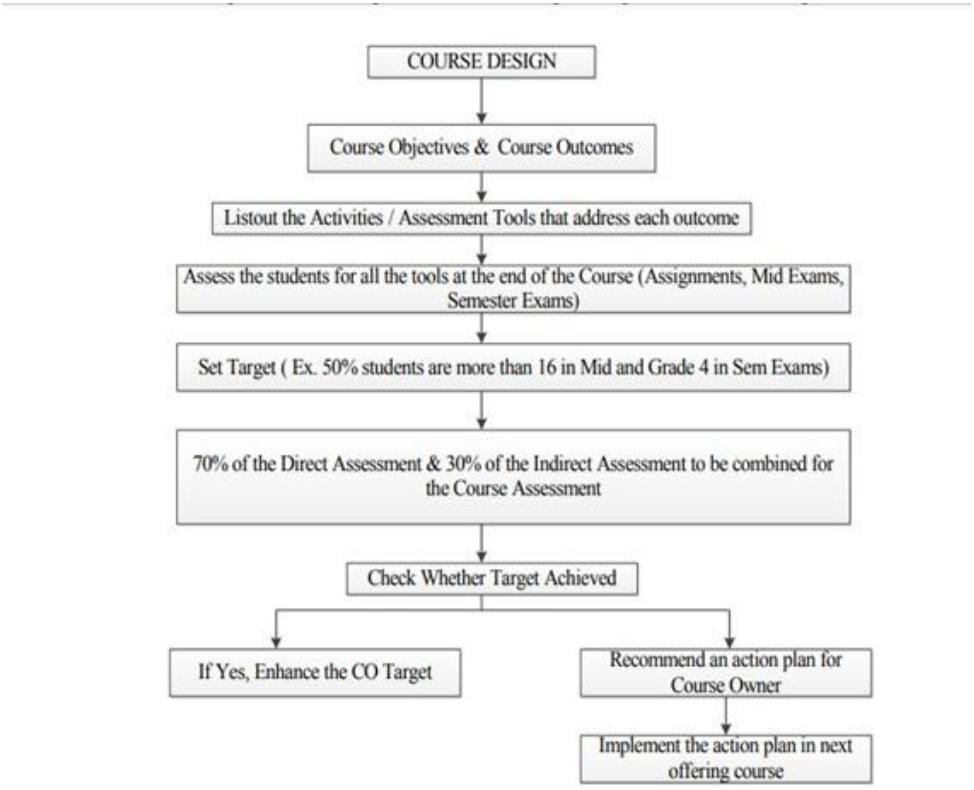
Direct methods display the student's knowledge and skills from their performance in the continuous internal assessment tests, semester examinations and classroom and laboratory assignments etc.

These methods provide a sampling of what students know or can do and provide strong evidence of student learning.

Indirect methods such as surveys will reflect on student's learning. They assess opinions or thoughts about the graduate's knowledge or skills and they are valued by different stakeholders.

| | |
|---|---|
| 2020-2021 | Two CIE Exams for maximum mark of 30 are conducted. The final internal marks are achieved by obtaining the average of both CIE exams.<br>The performance of a student in internal assessment with respect to theCO's is recorded.<br>End semester University exam performance of students for the maximum mark of 70 is considered for external exam performance. The summation of these two performances is considered as cumulative assessment for a prescribed course out come<br>The laboratory assessment is evaluated for 75 marks. 75 marks are divided into 25 (INTERNAL) and 50 (EXTERNAL) |
| 2019-2020 | Two CIE Exams for maximum mark of 30 are conducted. The final internal marks are achieved by obtaining the average of both CIE exams.<br>The performance of a student in internal assessment with respect to theCO's is recorded.<br>End semester University exam performance of students for the maximum mark of 70 is considered for external exam performance. The summation of these two performances is considered as cumulativeassessment for a prescribed course out come<br>The laboratory assessment is evaluated for 75 marks. 75 marks are divided into 25 (INTERNAL) and 50 (EXTERNAL) |
| 2018-2019 | Two Mid Exams for maximum mark of 25 are conducted. The final internal marks are achieved by obtaining the average of both Mid exams.<br>The performance of a student in internal assessment with respect to theCO's is recorded. |

| | |
|---|---|
| | End semester University exam performance of students for the maximum mark of 75 is considered for external exam performance. The summation of these two performances is considered as cumulativeassessment for a prescribed course outcome.<br>The laboratory assessment is evaluated for 75 marks. 75 marks aredivided into 25 (INTERNAL) and 50 (EXTERNAL) |
| 2017-2018 | Two Mid Exams for maximum mark of 25 are conducted. The final internal marks are achieved by obtaining the average of both Mid exams. The performance of a student in internal assessment with respect to the CO's is recorded. End semester University exam performance of students for the maximum mark of 75 is considered for external exam performance. The summation of these two performances is considered as cumulative assessment for a prescribed course outcome The laboratory assessment is evaluated for 75 marks. 75 marks are divided into 25 (INTERNAL) and 50 (EXTERNAL) |



**8.4.2 Record the attainment of Course Outcomes of all first year courses** (5) Institute Marks : 5.00

**COURSE TITLES**: Following are the course titles along with course code used in PO"s

Note: 1. C111, C112 indicative Courses for first year. First numeric digit indicates year of study, second digit indicates the semester and third digit indicates course number.

AY: 2019-20 Courses 1stSemester Course titles

| Subject Code | Course code | SUBJECT | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BS102MT | C111 | Mathematics - I | 1.45 | 2.00 | 1.00 | 1.50 | 1.33 | 1.75 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 1.50 |
| BS105CH | C112 | Chemistry | 2.00 | 1.50 | 2.33 | 1.00 | 2.00 | 2.50 | 2.25 | 1.00 | 0.00 | 0.00 | 1.00 | 1.33 |
| ES107CS | C113 | Programming for problem Solving | 2.50 | 2.25 | 2.75 | 1.00 | 1.50 | 1.00 | 1.50 | 0.00 | 1.00 | 1.50 | 1.50 | 1.33 |
| BS153CH | C114 | Chemistry Lab | 1.00 | 1.00 | 0.75 | 0.50 | 0.75 | 0.25 | 0.50 | 0.00 | 1.00 | 0.00 | 0.00 | 1.00 |
| ES155CS | C115 | Programming for problem Solving Lab | 2.50 | 2.00 | 1.50 | 2.00 | 1.00 | 1.00 | 2.50 | 0.00 | 2.00 | 1.50 | 1.00 | 2.50 |
| ES157ME | C116 | Workshop / Manufacturing Process | 1.40 | 2.75 | 1.75 | 2.00 | 1.25 | 1.25 | 1.00 | 0.00 | 2.75 | 0.00 | 0.00 | 1.20 |
| HS101EG | C121 | English | 1.25 | 0.50 | 1.00 | 1.00 | 1.00 | 1.50 | 1.25 | 1.67 | 1.25 | 2.25 | 1.50 | 1.75 |
| BS103MT | C122 | Mathematics - II | 1.25 | 2.50 | 2.00 | 1.00 | 1.67 | 1.00 | 1.00 | 1.00 | 1.00 | 1.67 | 1.50 | 1.75 |
| BS104PH | C123 | Physics | 2.00 | 1.00 | 0.00 | 1.50 | 0.00 | 1.00 | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 1.50 |
| ES106EE | C124 | Basic Electrical Engineering | 1.75 | 1.75 | 1.25 | 1.75 | 1.75 | 1.50 | 1.50 | 0.00 | 1.75 | 1.00 | 1.33 | 2.50 |
| HS151EG | C125 | English Lab | 0.50 | 0.75 | 0.50 | 0.50 | 1.25 | 1.25 | 0.75 | 1.25 | 1.50 | 2.75 | 0.75 | 2.00 |
| BS152PH | C126 | Physics Lab | 1.33 | 1.50 | 1.50 | 1.00 | 1.50 | 1.00 | 2.00 | 1.50 | 1.50 | 1.00 | 1.00 | 1.00 |
| ES154EE | C127 | Basic Electrical Engineering Lab | **1.75** | **1.75** | **1.25** | **1.75** | **1.75** | **1.50** | **1.50** | **0.00** | **1.75** | **1.00** | **1.33** | **2.50** |
| ES156CE | C128 | Engineering Graphics & Design | 2.00 | 1.75 | 2.00 | 1.50 | 2.00 | 1.50 | 1.00 | 0.00 | 1.00 | 1.50 | 1.75 | 1.75 |

PSOs

| Course | PSO1 | PSO2 | PSO3 |
|---|---|---|---|
| C111 | 1.75 | 1.00 | 0.00 |
| C112 | 0.00 | 0.00 | 1.00 |
| C113 | 2.00 | 1.00 | 0.00 |
| C114 | 0.00 | 0.00 | 1.00 |
| C115 | 1.67 | 2.00 | 1.00 |
| C116 | 1.00 | 1.00 | 1.33 |
| C121 | 1.25 | 1.00 | 1.50 |

| | | | |
|---|---|---|---|
| C122 | 1.00 | 2.00 | 1.25 |
| C123 | 1.00 | 1.00 | 1.00 |
| C124 | 1.00 | 1.00 | 1.00 |
| C125 | 1.25 | 0.75 | 1.50 |
| C126 | 1.33 | 1.50 | 1.00 |
| C127 | 1.00 | 0.00 | 0.00 |
| C128 | 1.50 | 1.50 | 1.75 |

**NAWAB SHAH ALAM KHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, OSMANIA UNIVERSITY, Hyderabad**

**DEPARTMENT OF COMPUTER SCIENCE ENGINEERING**

B.E. I YEAR, I/I SEM - **ATTAINMENT CALCULATIONS** -

Academic Year: **2020-21**

**Subject:** MATHEMATICS-I **Subject Code:** BS201MT **Faculty:** RIYAZ QURESHI

| S.No. | Hall Ticket No. | CIE -1 | | | | | | | | | | CIE -2 | | | | | | | | | | CIE | | SEE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | ASG-1 (5 M) | ASG-2 (5 M) | Part-1 Q1-abcd (6 M) | | Q 2 (7 M) | Q 3 (7 M) | BEST OF Q2 &Q 3 C01 | Q 4 (7 M) | Q 5 (7 M) | BEST OF Q4 &Q 5 C02 | CIE -1 TOTAL (30 M) | ASG-1 (5 M) | ASG-2 (5 M) | Part-1 Q1abcd (6 M) | | Q 2 (7 M) | Q 3 (7 M) | BEST OF Q2& Q3 C03 | Q 4 (7 M) | Q 5 (7 M) | BEST OF Q4& Q5 C04 | CIE -2 TOTAL (30 M) | Average CIE | TOTAL Marks | End Exam |
| | | CO1 | CO2 | CO1 | CO2 | CO1 | CO1 | | CO2 | CO2 | | | CO3 | CO4 | CO3 | C04 | CO3 | CO3 | | CO4 | CO4 | | | (30 M) | (100 M) | (70 M) |
| 1 | 161020733001 | 5 | 5 | 3 | 3 | 7 | | 7 | 7 | | 7 | 30 | 5 | 5 | 3 | 3 | 7 | | 7 | | 7 | 7 | 30 | 30 | 79 | 49 |
| 2 | 161020733002 | 5 | 5 | 3 | 3 | 7 | | 7 | 7 | | 7 | 30 | 5 | 5 | 3 | 3 | 7 | | 7 | | 7 | 7 | 30 | 30 | 79 | 49 |
| 3 | 161020733003 | 5 | 5 | 3 | 3 | 7 | | 7 | 7 | | 7 | 30 | 5 | 5 | 3 | 3 | 7 | | 7 | | 7 | 7 | 30 | 30 | 79 | 49 |
| 4 | 161020733004 | 5 | 5 | 3 | 3 | 7 | | 7 | 7 | | 7 | 30 | 5 | 5 | 3 | 3 | 7 | | 7 | | 7 | 7 | 30 | 30 | 79 | 49 |
| 5 | 161020733005 | 5 | 5 | 3 | 3 | 7 | | 7 | 7 | | 7 | 30 | 5 | 5 | 3 | 3 | 7 | | 7 | | 7 | 7 | 30 | 30 | 69 | 39 |
| 6 | 161020733006 | 5 | 5 | 3 | 3 | 7 | | 7 | 7 | | 7 | 30 | 5 | 5 | 3 | 3 | 7 | | 7 | | 7 | 7 | 30 | 30 | 79 | 49 |
| 7 | 161020733007 | 5 | 5 | 3 | 3 | 7 | | 7 | 3 | | 3 | 26 | 5 | 5 | 3 | 3 | 7 | | 7 | | 3 | 3 | 26 | 26 | 39 | 13 |
| 8 | 161020733008 | 5 | 5 | 3 | 3 | 7 | | 7 | 7 | | 7 | 30 | 5 | 5 | 3 | 3 | 7 | | 7 | | 7 | 7 | 30 | 30 | 69 | 39 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 | 1610207 33009 | 5 | 5 | 3 | 3 | 6 | | 6 | 6 | | 6 | 28 | 5 | 5 | 3 | 3 | 6 | | 6 | | 6 | 6 | 28 | 28 | 39 | 11 |
| 10 | 1610207 33010 | 5 | 5 | 3 | 3 | 6 | | 6 | 7 | | 7 | 29 | 5 | 5 | 3 | 3 | 6 | | 6 | | 7 | 7 | 29 | 29 | 39 | 10 |
| 11 | 1610207 33011 | 5 | 5 | 3 | 3 | 4 | | 4 | 4 | | 4 | 24 | 5 | 5 | 3 | 3 | 6 | | 6 | | 7 | 7 | 29 | 27 | 69 | 43 |
| 12 | 1610207 33012 | 5 | 5 | 3 | 3 | 6 | | 6 | 6 | | 6 | 28 | 5 | 5 | 3 | 3 | 6 | | 6 | | 6 | 6 | 28 | 28 | 39 | 11 |
| 13 | 1610207 33013 | 5 | 5 | 3 | 3 | 7 | | 7 | 4 | | 4 | 27 | 5 | 5 | 3 | 3 | 7 | | 7 | | 4 | 4 | 27 | 27 | 59 | 32 |
| 14 | 1610207 33014 | 5 | 5 | 3 | 3 | 6 | | 6 | 6 | | 6 | 28 | 5 | 5 | 3 | 3 | 6 | | 6 | | 6 | 6 | 28 | 28 | 59 | 31 |
| 15 | 1610207 33015 | 5 | 5 | 3 | 3 | 6 | | 6 | 6 | | 6 | 28 | 5 | 5 | 3 | 3 | 6 | | 6 | | 6 | 6 | 28 | 28 | 39 | 11 |
| 16 | 1610207 33016 | 5 | 5 | 3 | 3 | 6 | | 6 | 6 | | 6 | 28 | 5 | 5 | 3 | 3 | 6 | | 6 | | 6 | 6 | 28 | 28 | 39 | 11 |
| 17 | 1610207 33017 | 5 | 5 | 3 | 3 | 6 | | 6 | 7 | | 7 | 29 | 5 | 5 | 3 | 3 | 6 | | 6 | | 7 | 7 | 29 | 29 | 39 | 10 |
| 18 | 1610207 33018 | 5 | 5 | 3 | 3 | 7 | | 7 | 4 | | 4 | 27 | 5 | 5 | 3 | 3 | 7 | | 7 | | 4 | 4 | 27 | 27 | 0 | -27 |
| 19 | 1610207 33019 | 5 | 5 | 3 | 3 | 4 | | 4 | 5 | | 5 | 25 | 5 | 5 | 3 | 3 | 4 | | 4 | | 5 | 5 | 25 | 25 | 59 | 34 |
| 20 | 1610207 33020 | 5 | 5 | 3 | 3 | 6 | | 6 | 6 | | 6 | 28 | 5 | 5 | 3 | 3 | 6 | | 6 | | 6 | 6 | 28 | 28 | 59 | 31 |
| 21 | 1610207 33021 | 5 | 5 | 3 | 3 | 6 | | 6 | 6 | | 6 | 28 | 5 | 5 | 3 | 3 | 6 | | 6 | | 6 | 6 | 28 | 28 | 39 | 11 |
| 22 | 1610207 33022 | 5 | 5 | 3 | 3 | 4 | | 4 | 5 | | 5 | 25 | 5 | 5 | 3 | 3 | 4 | | 4 | | 5 | 5 | 25 | 25 | 59 | 34 |
| 23 | 1610207 33023 | 5 | 5 | 3 | 3 | 4 | | 4 | 4 | | 4 | 24 | 5 | 5 | 3 | 3 | 4 | | 4 | | 4 | 4 | 24 | 24 | 39 | 15 |
| 24 | 1610207 33024 | 5 | 5 | 3 | 3 | 6 | | 6 | 6 | | 6 | 28 | 5 | 5 | 3 | 3 | 6 | | 6 | | 6 | 6 | 28 | 28 | 79 | 51 |
| 25 | 1610207 33025 | 5 | 5 | 3 | 3 | 3 | | 3 | 3 | | 3 | 22 | 5 | 5 | 3 | 3 | 3 | | 3 | | 3 | 3 | 22 | 22 | 59 | 37 |
| 26 | 1610207 33026 | 5 | 5 | 3 | 3 | 6 | | 6 | 6 | | 6 | 28 | 5 | 5 | 3 | 3 | 6 | | 6 | | 6 | 6 | 28 | 28 | 39 | 11 |
| 27 | 1610207 33027 | 5 | 5 | 3 | 3 | 7 | | 7 | 4 | | 4 | 27 | 5 | 5 | 3 | 3 | 7 | | 7 | | 4 | 4 | 27 | 27 | 39 | 12 |
| 28 | 1610207 33028 | 5 | 5 | 3 | 3 | 6 | | 6 | 6 | | 6 | 28 | 5 | 5 | 3 | 3 | 6 | | 6 | | 6 | 6 | 28 | 28 | 39 | 11 |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 29 | 1610207 33029 | 5 | 5 | 3 | 3 | 6 | | 6 | 6 | | 6 | 28 | 5 | 5 | 3 | 3 | 6 | | 6 | | 6 | 6 | 28 | 28 | 39 | 11 |
| 30 | 1610207 33030 | 5 | 5 | 3 | 3 | 4 | | 4 | 5 | | 5 | 25 | 5 | 5 | 3 | 3 | 4 | | 4 | | 5 | 5 | 25 | 25 | 39 | 14 |
| 31 | 1610207 33031 | 5 | 5 | 3 | 3 | 6 | | 6 | 6 | | 6 | 28 | 5 | 5 | 3 | 3 | 6 | | 6 | | 6 | 6 | 28 | 28 | 69 | 41 |
| 32 | 1610207 33032 | 5 | 5 | 3 | 3 | 7 | | 7 | 4 | | 4 | 27 | 5 | 5 | 3 | 3 | 7 | | 7 | | 4 | 4 | 27 | 27 | 39 | 12 |
| 33 | 1610207 33033 | 5 | 5 | 3 | 3 | 6 | | 6 | 6 | | 6 | 28 | 5 | 5 | 3 | 3 | 6 | | 6 | | 6 | 6 | 28 | 28 | 39 | 11 |
| 34 | 1610207 33034 | 5 | 5 | 3 | 3 | 7 | | 7 | 3 | | 3 | 26 | 5 | 5 | 3 | 3 | 7 | | 7 | | 3 | 3 | 26 | 26 | 39 | 13 |
| 35 | 1610207 33035 | 5 | 5 | 3 | 3 | 4 | | 4 | 4 | | 4 | 24 | 5 | 5 | 3 | 3 | 4 | | 4 | | 4 | 4 | 24 | 24 | 39 | 15 |
| 36 | 1610207 33036 | 5 | 5 | 3 | 3 | 6 | | 6 | 7 | | 7 | 29 | 5 | 5 | 3 | 3 | 6 | | 6 | | 7 | 7 | 29 | 29 | 39 | 10 |
| 37 | 1610207 33037 | 5 | 5 | 3 | 3 | 7 | | 7 | 7 | | 7 | 30 | 5 | 5 | 3 | 3 | 7 | | 7 | | 7 | 7 | 30 | 30 | 69 | 39 |
| 38 | 1610207 33038 | 5 | 5 | 3 | 3 | 7 | | 7 | 3 | | 3 | 26 | 5 | 5 | 3 | 3 | 7 | | 7 | | 3 | 3 | 26 | 26 | 39 | 13 |
| 39 | 1610207 33039 | 5 | 5 | 3 | 3 | 7 | | 7 | 3 | | 3 | 26 | 5 | 5 | 3 | 3 | 7 | | 7 | | 3 | 3 | 26 | 26 | 39 | 13 |
| 40 | 1610207 33040 | 5 | 5 | 3 | 3 | 3 | | 3 | 3 | | 3 | 22 | 5 | 5 | 3 | 3 | 3 | | 3 | | 3 | 3 | 22 | 22 | 39 | 17 |
| 41 | 1610207 33041 | 5 | 5 | 3 | 3 | 7 | | 7 | 3 | | 3 | 26 | 5 | 5 | 3 | 3 | 7 | | 7 | | 3 | 3 | 26 | 26 | 0 | -26 |
| 42 | 1610207 33042 | 5 | 5 | 3 | 3 | 4 | | 4 | 4 | | 4 | 24 | 5 | 5 | 3 | 3 | 4 | | 4 | | 4 | 4 | 24 | 24 | 39 | 15 |
| 43 | 1610207 33043 | 4 | 4 | 3 | 3 | 2 | | 2 | 2 | | 2 | 18 | 4 | 4 | 3 | 3 | 2 | | 2 | | 2 | 2 | 18 | 18 | 39 | 21 |
| 44 | 1610207 33044 | 5 | 5 | 3 | 3 | 3 | | 3 | 3 | | 3 | 22 | 5 | 5 | 3 | 3 | 3 | | 3 | | 3 | 3 | 22 | 22 | 39 | 17 |
| 45 | 1610207 33045 | 5 | 5 | 3 | 3 | 6 | | 6 | 7 | | 7 | 29 | 5 | 5 | 3 | 3 | 6 | | 6 | | 7 | 7 | 29 | 29 | 39 | 10 |
| 46 | 1610207 33046 | 5 | 5 | 3 | 3 | 6 | | 6 | 7 | | 7 | 29 | 5 | 5 | 3 | 3 | 6 | | 6 | | 7 | 7 | 29 | 29 | 39 | 10 |
| 47 | 1610207 33047 | 5 | 5 | 3 | 3 | 7 | | 7 | 3 | | 3 | 26 | 5 | 5 | 3 | 3 | 7 | | 7 | | 3 | 3 | 26 | 26 | 39 | 13 |
| 48 | 1610207 33048 | 5 | 5 | 3 | 3 | 6 | | 6 | 6 | | 6 | 28 | 5 | 5 | 3 | 3 | 6 | | 6 | | 6 | 6 | 28 | 28 | 0 | -28 |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 49 | 161020733049 | 5 | 5 | 3 | 3 | 7 | | 7 | 7 | | 7 | 30 | 5 | 5 | 3 | 3 | 7 | | 7 | | 7 | 7 | 30 | 30 | 69 | 39 |
| 50 | 161020733050 | 5 | 5 | 3 | 3 | 6 | | 6 | 7 | | 7 | 29 | 5 | 5 | 3 | 3 | 6 | | 6 | | 7 | 7 | 29 | 29 | 39 | 10 |
| 51 | 161020733051 | 5 | 5 | 3 | 3 | 6 | | 6 | 7 | | 7 | 29 | 5 | 5 | 3 | 3 | 6 | | 6 | | 7 | 7 | 29 | 29 | 59 | 30 |
| 52 | 161020733052 | 5 | 5 | 3 | 3 | 7 | | 7 | 7 | | 7 | 30 | 5 | 5 | 3 | 3 | 7 | | 7 | | 7 | 7 | 30 | 30 | 79 | 49 |
| 53 | 161020733053 | 5 | 5 | 3 | 3 | 7 | | 7 | 7 | | 7 | 30 | 5 | 5 | 3 | 3 | 7 | | 7 | | 7 | 7 | 30 | 30 | 69 | 39 |
| 54 | 161020733054 | 5 | 5 | 3 | 3 | 7 | | 7 | 3 | | 3 | 26 | 5 | 5 | 3 | 3 | 7 | | 7 | | 3 | 3 | 26 | 26 | 39 | 13 |
| 55 | 161020733055 | 5 | 5 | 3 | 3 | 4 | | 4 | 5 | | 5 | 25 | 5 | 5 | 3 | 3 | 4 | | 4 | | 5 | 5 | 25 | 25 | 39 | 14 |
| 56 | 161020733056 | 5 | 5 | 3 | 3 | 7 | | 7 | 4 | | 4 | 27 | 5 | 5 | 3 | 3 | 7 | | 7 | | 4 | 4 | 27 | 27 | 59 | 32 |
| 57 | 161020733057 | 5 | 5 | 3 | 3 | 7 | | 7 | 4 | | 4 | 27 | 5 | 5 | 3 | 3 | 7 | | 7 | | 4 | 4 | 27 | 27 | 39 | 12 |
| 58 | 161020733058 | 4 | 4 | 3 | 3 | 4 | | 4 | 5 | | 5 | 23 | 4 | 4 | 3 | 3 | 4 | | 4 | | 5 | 5 | 23 | 23 | 39 | 16 |
| 59 | 161020733059 | 5 | 5 | 3 | 3 | 6 | | 6 | 6 | | 6 | 28 | 5 | 5 | 3 | 3 | 6 | | 6 | | 6 | 6 | 28 | 28 | 69 | 41 |
| 60 | 161020733060 | 5 | 5 | 3 | 3 | 4 | | 4 | 5 | | 5 | 25 | 5 | 5 | 3 | 3 | 4 | | 4 | | 5 | 5 | 25 | 25 | 39 | 14 |
| **Average Marks** | | **4.97** | **4.97** | **3.00** | **3.00** | **5.85** | | **5.85** | **5.30** | | **5.30** | **27.08** | **4.97** | **4.97** | **3.00** | **3.00** | **5.88** | | **5.88** | | **5.35** | **5.35** | **27.17** | **27.13** | **50.93** | **21.26** |

**CIE (Mid Exam) CO Wise Percentage**

| COURSE OUTCOME | CO Wise Sum | CO Wise Percentage % |
|---|---|---|
| C01 | 13.82 | 92.11 |
| C02 | 13.27 | 88.44 |
| C03 | 13.85 | 92.33 |

| **CIE - CO Wise Sum Formula** |
|---|
| C01 = ASG(C01) + Q1(C01) + BestOfQ2&Q3(C01) |
| C02 = ASG(C02) + Q1(C02) + BestOfQ4&Q5(C02) |
| C03 = ASG(C03) + Q1(C03) + BestOfQ2&Q3(C03) |

| **CIE - CO Wise Percentage** |
|---|
| C01 % = {C01 SUM/total C01 Marks(15)}*100 |
| C02 % = {C02 SUM/total C02 Marks(15)}*100 |
| C03 % = {C03 SUM/total C03 Marks(15)}*100 |

| | |
|---|---|
| Average Marks | 21.26 |
| Student Count >Avg | 0 |
| Total Students | 60 |
| Percentage | 0 |

| | | |
|---|---|---|
| C04 | 13.32 | 88.78 |
| **Average** | **13.56** | **90.42** |

C04 = ASG(C04) + Q1(C04) + BestOfQ4&Q5(C04)

C04 % = {C04 SUM/total C04 Marks(15)}*100

| SEE (End Exam) CO Wise Percentage | | |
|---|---|---|
| C01-C04 | 21.26 | 0.00 |

| SEE - CO Wise Percentage |
|---|
| C01-C04 = End Exam Avg Marks |

| SEE - CO Wise Percentage |
|---|
| C01-C04 % = (End Exam Avg Marks/70)*100 |

| CO ATTAINMENT | Internal Marks % | Internal Attainment | External Marks % | External Attainment | DIRECT ATTAINMENT LEVEL |
|---|---|---|---|---|---|
| **CO1** | **92** | **3** | **0.00** | **0** | **0.9** |
| **CO2** | **88** | **3** | **0.00** | **0** | **0.9** |
| **CO3** | **92** | **3** | **0.00** | **0** | **0.9** |
| **CO4** | **89** | **3** | **0.00** | **0** | **0.9** |
| **Average** | | | | | **0.9** |

| INTERNAL EXAM ATTAINMENT LEVEL SCALE | | |
|---|---|---|
| Attainment Levels | 0 | <= 49 |
| | 1 | 50 - 59 |
| | 2 | 60 - 69 |
| | 3 | >= 70 |

| EXTERNAL EXAM / FINAL ATTAINMENT LEVEL SCALE | | |
|---|---|---|
| Attainment Levels | 0 | <=39 |
| | 1 | 40-49 |
| | 2 | 50-59 |
| | 3 | >=60 |

| Direct Attainment % |
|---|
| C01=(CO1IntAtn*0.30+CO1ExtAtn*0.70) |
| C02=(CO2IntAtn*0.30+CO2ExtAtn*0.70) |
| C03=(CO3IntAtn*0.30+CO3ExtAtn*0.70) |
| C04=(CO4IntAtn*0.30+CO4ExtAtn*0.70) |

**CO-PO Matrix**

| Course | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 | PSO3 | Attainment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **CO1** | 3 | 2 | 1 | 2 | | 3 | | | 1 | | | 2 | 2 | 1 | | 0.9 |
| **CO2** | 3 | 2 | 1 | 2 | 2 | 2 | | | 1 | | | 2 | 2 | 1 | | 0.9 |
| **CO3** | 3 | 2 | 1 | 1 | 1 | 1 | | | 1 | | | 1 | 2 | 1 | | 0.9 |
| **CO4** | 3 | 2 | 1 | 1 | 1 | 1 | | | 1 | | | 1 | 1 | 1 | | 0.9 |
| **Average** | **3** | **2** | **1** | **1.5** | **1.3** | **1.75** | | | **1** | | | **1.5** | **1.75** | **1** | | **0.9** |

| Final Attainment % |
|---|
| C01 = (DIRECT ATTAINMENT*0.8) + (INDIRECT ATTAINMENT*0.2) |
| C02 = (DIRECT ATTAINMENT*0.8) + (INDIRECT ATTAINMENT*0.2) |
| C03 = (DIRECT ATTAINMENT*0.8) + (INDIRECT ATTAINMENT*0.2) |
| C04 = (DIRECT ATTAINMENT*0.8) + (INDIRECT ATTAINMENT*0.2) |

## Course PO Attainments

| | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 | PSO3 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Direct Attainment | 0.9 | 0.6 | 0.3 | 0.45 | 0.4 | 0.525 | 0 | 0 | 0.3 | 0 | 0 | 0.45 | 0.525 | 0.3 | 0 |
| Indirect Attainment | **0.9** | **0.75** | **0.6** | **0.675** | **0.65** | **0.7125** | **0.45** | **0.45** | **0.6** | **0.45** | **0.45** | **0.675** | **0.7125** | **0.6** | **0.45** |
| **Final Attainment** | **0.9** | **0.63** | **0.36** | **0.495** | **0.45** | **0.5625** | **0.09** | **0.09** | **0.36** | **0.09** | **0.09** | **0.495** | **0.5625** | **0.36** | **0.09** |

## PO ATTAINMENTS

| |
|---|
| DIRECT ATTAINMENT (PO1)= (Average of PO1*Average of CO Direct Attainment)/3 |
| Similar for PO2 TO PO12 & PSO1 TO PSO3 |
| INDIRECT ATTAINMENT IS OBTAINED FROM COURSE EXIT SURVEY |
| FINAL ATTAINMENT = (DIR ATNM-PO1)*0.8 + (INDIR ATNM-PO1)*0.2 |

**8.5 Attainment of Program Outcomes from first year courses** (20) Total Marks 20.00

**8.5.1 Indicate results of evaluation of each relevant PO and/ or PSO, if applicable** (15) Institute Marks : 15.00

**POs Attainment:**

| Subject Code | Course code | SUBJECT | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BS102MT | C111 | Mathematics - I | 1.76 | 1.17 | 0.59 | 0.88 | 0.78 | 1.03 | 0.00 | 0.00 | 0.59 | 0.00 | 0.00 | 0.88 |
| BS105CH | C112 | Chemistry | 0.80 | 0.80 | 1.24 | 0.53 | 1.07 | 1.33 | 1.20 | 0.53 | 0.00 | 0.00 | 0.53 | 0.71 |
| ES107CS | C113 | Programming for problem Solving | 1.33 | 1.20 | 1.47 | 0.53 | 0.80 | 0.53 | 0.80 | 0.00 | 0.53 | 0.80 | 0.80 | 0.71 |
| BS153CH | C114 | Chemistry Lab | 0.75 | 0.75 | 0.56 | 0.38 | 0.56 | 0.19 | 0.38 | 0.00 | 0.75 | 0.00 | 0.00 | 0.75 |
| ES155CS | C115 | Programming for problem Solving Lab | 1.88 | 1.50 | 1.13 | 1.50 | 0.75 | 0.75 | 1.88 | 0.00 | 1.50 | 1.13 | 0.75 | 1.88 |
| ES157ME | C116 | Workshop / Manufacturing Process | 1.00 | 1.67 | 1.00 | 1.00 | 1.25 | 1.25 | 1.00 | 0.00 | 1.50 | 1.75 | 1.00 | 1.00 |
| HS101EG | C121 | English | 1.00 | 1.20 | 1.00 | 1.20 | 1.20 | 2.30 | 1.10 | 1.30 | 1.50 | 1.00 | 2.10 | 1.20 |
| BS103MT | C122 | Mathematics - II | 1.60 | 1.33 | 1.07 | 0.53 | 0.89 | 0.53 | 0.53 | 0.53 | 0.53 | 0.89 | 0.80 | 0.93 |
| BS104PH | C123 | Physics | 1.56 | 1.68 | 1.86 | 1.47 | 1.86 | 1.46 | 1.78 | 1.86 | 1.75 | 1.87 | 1.96 | 1.84 |
| ES106EE | C124 | Basic Electrical Engineering | 1.35 | 1.16 | 1.35 | 0.77 | 0.52 | 1.35 | 0.00 | 0.00 | 0.77 | 0.00 | 0.00 | 1.16 |
| HS151EG | C125 | English Lab | 1.20 | 2.20 | 2.20 | 2.30 | 2.20 | 1.20 | 2.20 | 2.10 | 2.30 | 2.06 | 1.25 | 2.25 |
| BS152PH | C126 | Physics Lab | 1.50 | 1.40 | 1.40 | 1.60 | 1.40 | 1.50 | 1.50 | 1.50 | 1.41 | 1.40 | 1.57 | 1.68 |
| ES154EE | C127 | Basic Electrical Engineering Lab | 1.31 | 1.31 | 0.94 | 1.31 | 1.31 | 1.13 | 1.13 | 0.00 | 1.31 | 0.75 | 1.00 | 1.88 |
| ES156CE | C128 | Engineering Graphics & Design | 1.33 | 1.17 | 1.33 | 1.00 | 1.33 | 1.00 | 0.67 | 0.00 | 0.67 | 1.00 | 1.17 | 1.17 |

**PO Attainment Level**

| Course | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Direct Attainment | 1.31 | 1.32 | 1.22 | 1.07 | 1.14 | 1.11 | 1.18 | 1.30 | 1.16 | 1.26 | 1.18 | 1.29 |
| CO Attainment | 1.62 | 1.64 | 1.51 | 1.29 | 1.44 | 1.29 | 1.37 | 1.28 | 1.46 | 1.52 | 1.27 | 1.69 |

**PSOs Attainment:**

| Course | PSO1 | PSO2 | PSO3 |
|---|---|---|---|
| C111 | 1.03 | 0.59 | 0.00 |
| C112 | 0.00 | 0.00 | 0.00 |
| C113 | 1.07 | 0.53 | 0.00 |
| C114 | 0.00 | 0.00 | 0.75 |
| C115 | 1.25 | 1.50 | 0.75 |
| C116 | 1.00 | 1.00 | 1.33 |
| C121 | 1.25 | 2.50 | 1.25 |
| C122 | 0.53 | 1.07 | 0.67 |
| C123 | 1.8 | 1.7 | 1.8 |
| C124 | 1.35 | 0.77 | 0.00 |
| C125 | 2.35 | 2.25 | 1.13 |
| C126 | 1.48 | 1.57 | 1.63 |
| C127 | 0.75 | 0.00 | 0.00 |
| C128 | 1.00 | 1.00 | 1.17 |

**PSO Attainment Level**

| Course | PSO1 | PSO2 | PSO3 |
|---|---|---|---|
| Direct Attainment | 1.23 | 1.31 | 1.17 |
| CO Attainment | 1.31 | 1.25 | 1.21 |

**8.5.2 Actions taken based on the results of evaluation of relevant POs** (5)

Institute Marks : 5.00

**POs Attainment Levels and Actions for Improvement- (2020-21)**

| POs | Target Level | Attainment Level | Observations |
|---|---|---|---|
| **PO 1 : Engineering Knowledge** | | | |
| PO 1 | 1.5 | 2.20 | projected target was achieved. |
| Before the semester basics were explained in induction programme and students are motivated to participate in tech-fest and industrial visits. | | | |
| **PO 2 : Problem Analysis** | | | |
| PO 2 | 1.5 | 2.16 | projected target was achieved. |
| Analytical and mathematical subjects were taught with more examples and solved more tutorial problems. | | | |
| **PO 3 : Design/development of Solutions** | | | |
| PO 3 | 1.5 | 1.76 | projected target wasn't achieved. |
| Recent trends in industries were discussed and ICT based teaching were conducted to make simple to understand the subject and solve complex problems. | | | |
| **PO 4 : Conduct Investigations of Complex Problems** | | | |
| PO 4 | 1.5 | 1.93 | projected target was achieved. |
| 1. Students were encouraged to participate in seminars /conferences to develop the knowledge and recent research problems. 2. Guest lecture on data analytics in CLOUD ENVIRONMENT was | | | |
| **PO 5 : Modern Tool Usage** | | | |
| PO 5 | 1.5 | 1.94 | projected target was achieved. |
| 1. Complex topics in subjects are taught by software tools like MATLAB to make simple to understand specified topics. 2. Students are motivated to prepare there projects with software tools to reduce complexity of experiments and model developments. | | | |
| **PO 6 : The Engineer and Society** | | | |
| PO 6 | 1.5 | 1.41 | projected target wasn't achieved. |
| Additional classes were conducted for weak students. | | | |
| **PO 7 : Environment and Sustainability** | | | |
| PO 7 | 1.5 | 1.85 | projected target was achieved. |
| 1. Economic and environmental solutions, background based projects were executed for final year. 2. NPTEL video lectures on field related subjects were conducted. | | | |
| **PO 8 : Ethics** | | | |
| PO 8 | 1.5 | 1.30 | projected target wasn't achieved. |

| |
|---|
| 1. Classes related to professional ethics and gender sensitization were conducted as per plan during the respective periods to enrich ethical moralities and exhibit high degree of professionalism. 2. Personality development classes were conducted by Placement and training cell. |

**PO 9 : Individual and Team Work**

| | | | |
|---|---|---|---|
| PO 9 | 1.5 | 2.10 | projected target was achieved. |
| 1. Industrial visit was organized to Infosys on 31-8-2019. 2. Students are motivated to participate and encouraged to attend the various extra curricular activities. 3.Students are grouped to develop the academic final year and mini projects, the team or group efforts was monitored by conducting the reviews. | | | |

**PO 10 : Communication**

| | | | |
|---|---|---|---|
| PO 10 | 1.5 | 1.16 | projected target wasn't achieved. |
| 1. Classes related to communication skills were conducted as per plan during the respective periods. 2. Seminars and projects reviews related to latest engineering topics were conducted in respective subjects. 3. Professional communication in English and English language communication skills lab,subjects were developed in communication skills. | | | |

**PO 11 : Project Management and Finance**

| | | | |
|---|---|---|---|
| PO 11 | 1.5 | 1.75 | projected target was achieved. |
| 1. Motivating the students projects are developed as a team or individual. 2. Motivating the students to develop the product based projects and support the society | | | |

**PO 12 : Life-long Learning**

| | | | |
|---|---|---|---|
| PO 12 | 1.5 | 2.42 | projected target was achieved. |
| Motivated and conducted awareness classes regarding the higher education, entrance examinations were conducted. | | | |

**PSOs Attainment Levels and Actions for Improvement- (2020-21)**

| PSOs | Target Level | Attainment Level | Observations |
|---|---|---|---|

**PSO 1 : Develop a sound understanding of the concepts and the operational aspects of computer systems.**

| | | | |
|---|---|---|---|
| PSO 1 | 1.2 | 1.34 | projected target was achieved. |
| 1.Additional classes to be conducted to introduce data structures concepts. 2.More computer organization to be taught in tutorial classes. | | | |

**PSO 2 : Apply ethical software development practices in providing real time solutions using latest development tools.**

| | | | |
|---|---|---|---|
| PSO 2 | 1.2 | 1.41 | projected target was achieved. |
| More problems will be given for practice. | | | |

**PSO 3 : Demonstrate their adaptability to the ever evolving societal needs in multidisciplinary fields.**

| | | | |
|---|---|---|---|
| PSO 3 | 1.2 | 1.12 | projected target wasn't achieved. |
| 1.Students find it difficult to solve computer organization concepts. | | | |

## 9 STUDENT SUPPORT SYSTEMS (50) Total Marks 50.00

**9.1 Mentoring system to help at individual level** (5) Total Marks 5.00

Institute Marks : 5.00

**9.1 STUDENTS MENTORING SYSTEM: -**

NSAKCET is working towards enhancing the educational culture to better serve the needs of vibrant learning community. Effective mentoring begins with the faculty. When it comes to academic success and persistence, there should be a healthy relationship among faculty members and students thus mentoring system come into picture .An effective Student mentoring system (SMS) has already been implemented in our college. All the students of the college are coming under this system from the date of joining the college.

| | |
|---|---|
| Number of Faculty Mentors | 18 |
| Number of Students per Mentors | 20 |
| Frequency of Meeting | Twice per Semester |

A batch of 20 students will be allotted to each faculty who will act as a mentor to the students till their graduation. The frequency of meeting is twice in a semester or as and when required. The proctor files are maintained by the faculty which gives the complete academic details of the students. Mentoring includes improving the performance in the course work, student's attendance, encouraging them to attend conferences, workshops, participation in extracurricular activities, career guidance and any other problems faced by the students. A Mentoring File has been distributed to all the respective Mentors of the college. Faculties will have a meeting with the students periodically and their
Academic progress and all his activities are discussed and maintained in the file.Any discrepancies in the student Behavior ,Attendance, Marks etc will be questioned and will be counseled with care. Staff will be submitting the file to the high level Mentoring /Counseling Member like HoD. The HoD will scrutinize case by case and suggest corrective measure.

***Description of Mentoring System***

| S.NO | Type of Mentoring System | Functions |
|---|---|---|
| 1 | Professional Guidance | Motivate Students to expand their knowledge to participate in several Technical Activities. |
| 2 | Career Advancement | Encourage Students to participated in Certified courses like CISCO<br>Provide Career guidance & workshops apart from soft-skills training provided by Training & Placement Cell |
| 3 | Course Work Specific | Identify Academically slow learner students & provide them with reading material & remedial classes. |
| 4 | Laboratory Specific | Encourage students to perform the experiments beyond the curriculum. Support the students to have repetition of Experiments<br>Students are advised to utilized the lab to carryout mini project/project etc. |
| 5 | All round development | To Encourage the students to learn Team Work, leadership & motivate them to participate in sports & cultural Activities Encourage and motivate the students to participate in social & environmental cause, NSS, Yoga Day. |

The mentoring helped the students in identifying their weakness and aided in improving their technical and non-technical skills. The visible outcome of such counseling was observed in improvement of Marks, Attendance, Behavior, participation in various technical activities like Industrial Visit, Workshops, Seminars and also in extracurricular activities.

**Efficiency of Mentoring System :**

NSAKCET has Training & Placement Cell that conducts Training and Placement activities**.** The faculty member associated with T&P Cell interact with students and counsel them on higher education and also organize seminars, workshops delivered by experts. Periodically Campus Recruitment Training (CRT) classes are conducted for enhancing their analytical, mathematical and communication skills.

Establishment of the above stated mentoring system has help us in the following ways

1. Enhanced the teaching learning process to be more student centric.
2. Created a positive learning environment.
3. Helped the students learn to take better control of his or her career.
4. Provided impartial advice and encouragement to students.
5. Developed a supportive relationship between students and staff .
6. Assisted with problem solving and Improved self-confidence of students.
7. The CIE Performance and Semester end Exam performance of students has improved.
8. Obtained gradual improvement in attendance percentage of students.
9. Was able to provide individual and personal care to the students with the help of Mentors.
10. Information gathering and dissemination was easy.

**9.2** Feedback analysis and reward /corrective measures taken, if any (10)

Total Marks 10.00
Institute Marks : 10.00

**A. METHODOLOGY BEING FOLLOWED FOR ANALYSIS OF FEEDBACK AND ITS EFFECTIVENESS:**

Firstly observation by making rounds to the department wise classes has been done on the daily basis by the HOD ‘s and principal during classes whether the faculty is on time in the class and on students ,whether they are approaching exact on time and also about the behavior of students and faculty during classes.

Feedback from the students is taken either by online or in written format or by orally about the performance of faculty for all the courses such as the course objectives and outcomes of subject are well defined and making clear to students, whether the class is in discipline during lecture, students getting interest in that respective subjects and so on., with these types of questions feedback has been concerned. Twice in semester, feedback has been taking to evaluate the subject knowledge, teaching skills and all overall performance on parameters in a 5 point scale.

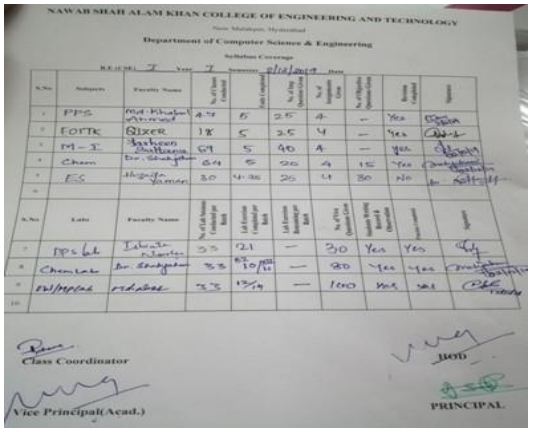
Later, the feedback is analyzed and will be evaluated on a score of 100 and the copy of the feedback is shared to the respective faculty for further necessary corrective actions. Based on the score, the faculty is required to attend the counseling sessions conducted by Head of the Department and Principal.

**Class monitoring:**

Monitoring is also done through Class Work Review Committees (CWRC) to assess the uniformity in syllabus coverage, and also the quality of teaching. Annual reviews are conducted on detailed self-appraisal forms to evaluate the performance on teaching, research and other performance related parameters. The quality of course material, assignments and question papers prepared by the faculty are assessed internally and suitable suggestions are given.

**Percentage of Students who participate:**

Students has been given written forms as well as informed in the class to visit the site for online feedback in the class hours. Students having overall attendance of more than 75% can participate to give feedback and 80% of the students in total strength of the class should be present while taking the feedback. The below fig 9.2.1 gives you about the syllabus coverage form sample collected from the students:


NAWAB SHAH ALAM KHAN COLLEGE OF ENGINEERING AND TECHNOLOGY

Department of Computer Science & Engineering

Syllabus Coverage

Class Coordinator

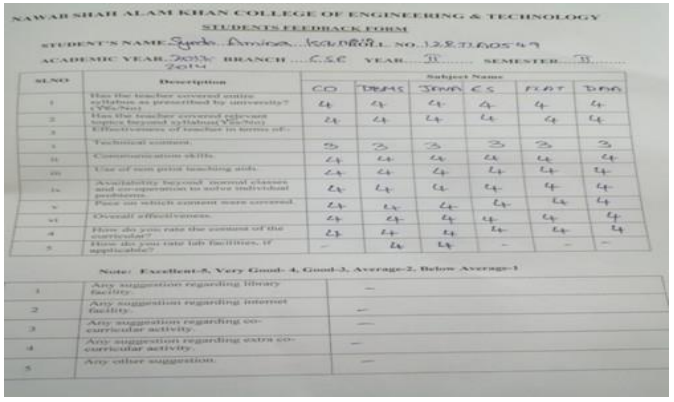
HOD

Vice Principal(Acad.)

PRINCIPAL

Fig: 9.2.1 Syllabus Coverage Form

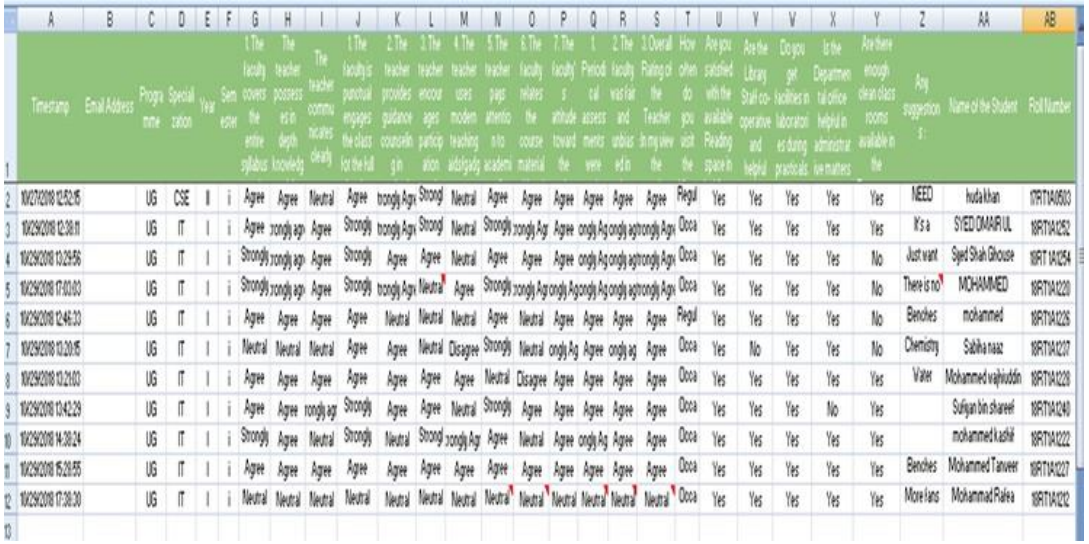
The below Fig 9.2.2 gives the feedback from the students which show the attributes/indices that will be considered and the rating given by the students:


NAWAB SHAH ALAM KHAN COLLEGE OF ENGINEERING & TECHNOLOGY

STUDENTS FEEDBACK FORM

Fig 9.2.2 Feedback

Taken from the Student The below Fig 9.2.3 gives the Online feedback from the students which show the attributes/indices that will be considered and the rating given by the students:



| | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z | AA | AB |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Timestamp | Email Address | Programme | Specialization | Year | Semester | 1.The faculty covers the entire syllabus | The teacher possesses in depth knowledg | The teacher communicates clearly | 1.The faculty is punctual engages the class for the full | 2.The teacher provides guidance counselin g in | 3.The teacher encourages participation | 4.The teacher uses modern teaching aids/gadg | 5.The teacher pays attention to academi | 6.The faculty relates the course material | 7.The faculty's attitude toward the | 1. Periodical assessments were | 2.The faculty visit and arrangement | 3.Overall Rating of the Teacher in my view the | How often do you visit the | Are you satisfied with the available Reading space in | Are the Library Staff co-operative and helpful | Do you get facilities in laboratories during practicals | Is the Department al office helpful in administrative matters | Are there enough clean class rooms available in the | Any suggestions: | Name of the Student | Roll Number |
| 2 | 10/27/2018 12:52:45 | | UG | CSE | II | i | Agree | Agree | Neutral | Agree | trongly Agre | Strongl | Neutral | Agree | Agree | Agree | Agree | Agree | Agree | Agree | Regul | Yes | Yes | Yes | Yes | Yes | NEED | huda khan | 17IRT1A0503 |
| 3 | 10/29/2018 12:38:11 | | UG | IT | I | i | Agree | rongly agr | Agree | Strongly | trongly Agre | Strongl | Neutral | Strongly | rongly Ag | Agree | ongly Ag | ongly Ag | ongly Ag | rongly Agr | Occa | Yes | Yes | Yes | Yes | Yes | It's a | SYED OMAR UL | 16IRT1A1252 |
| 4 | 10/29/2018 13:29:56 | | UG | IT | I | i | Strongly | rongly agr | Agree | Strongly | Agree | Agree | Neutral | Agree | Agree | Agree | ongly Ag | ongly Ag | ongly ag | rongly Agr | Occa | Yes | Yes | Yes | Yes | No | Just want | Sjed Shah Ghouse | 16IRT 1A1254 |
| 5 | 10/29/2018 17:03:03 | | UG | IT | I | i | Strongly | rongly agr | Agree | Strongly | trongly Agre | Neutral | Agree | Strongly | rongly Ag | ongly Ag | Agongly Ag | ongly Ag | ongly ag | rongly Agr | Occa | Yes | Yes | Yes | Yes | No | There is no | MOHAMMED | 16IRT1A1220 |
| 6 | 10/29/2018 12:46:33 | | UG | IT | I | i | Agree | Agree | Agree | Agree | Neutral | Neutral | Neutral | Agree | Neutral | Agree | Agree | Agree | Agree | Agree | Regul | Yes | Yes | Yes | Yes | No | Benches | mohammed | 16IRT1A1225 |
| 7 | 10/29/2018 13:20:45 | | UG | IT | I | i | Neutral | Neutral | Neutral | Agree | Agree | Neutral | Disagree | Strongly | Neutral | ongly Ag | Agree | ongly ag | Agree | Occa | Yes | No | Yes | Yes | No | Chemistry | Sabiha naaz | 16IRT1A1227 |
| 8 | 10/29/2018 13:21:03 | | UG | IT | I | i | Agree | Agree | Agree | Agree | Agree | Agree | Agree | Neutral | Disagree | Agree | Agree | Agree | Agree | Agree | Occa | Yes | Yes | Yes | Yes | Yes | Water | Mohammed wajhiuddin | 16IRT1A1228 |
| 9 | 10/29/2018 13:42:29 | | UG | IT | I | i | Agree | Agree | rongly agr | Strongly | Agree | Agree | Neutral | Strongly | Agree | Agree | Agree | Agree | Agree | Agree | Occa | Yes | Yes | Yes | No | Yes | | Sufiyan bin shareef | 16IRT1A1240 |
| 10 | 10/29/2018 14:30:24 | | UG | IT | I | i | Strongly | Agree | Neutral | Strongly | Neutral | Strongl | rongly Ag | Agree | Neutral | Agree | ongly Ag | Agree | Agree | Agree | Occa | Yes | Yes | Yes | Yes | Yes | | mohammed kashif | 16IRT1A1222 |
| 11 | 10/29/2018 15:28:55 | | UG | IT | I | i | Agree | Agree | Agree | Agree | Agree | Agree | Agree | Agree | Agree | Agree | Agree | Agree | Agree | Agree | Occa | Yes | Yes | Yes | Yes | Yes | Benches | Mohammed Tanveer | 16IRT1A1227 |
| 12 | 10/29/2018 17:38:30 | | UG | IT | I | i | Neutral | Neutral | Neutral | Neutral | Neutral | Neutral | Neutral | Neutral | Neutral | Neutral | Neutral | Neutral | Neutral | Neutral | Occa | Yes | Yes | Yes | Yes | Yes | More fans | Mohammad Rakea | 16IRT1A1232 |
| 13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Fig: 9.2.3 Online Feed Back Taken From The Students.

**B. Corrective Measures Taken:**

Based on the figure 9.2.2 and 9.2.3 corrective measures have been taken as, the below Table 9.2.4 gives the details of Rating Indices:

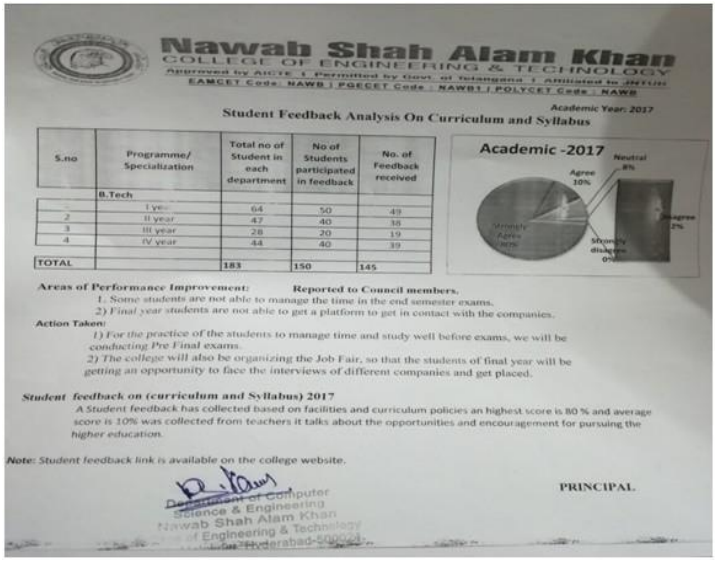
| Gradings | Points |
|---|---|
| Excellent | 4.1-5 |
| Good | 3.5-4 |
| Average | 3-3.5 |
| Below Average | < 3 |

**Table 9.2.4 Rating Indices**

Based on the rating received, the necessary steps or action are taken for improvement.

- If the Faculty has ratingØ < 3.5, he/she must submit a written explanation.
- Taking feedback and explanation into consideration, HoD may ask the faculty toØ improve the performance or he may replace with other faculty.
- The below average performed faculty are trained continuously through **Faculty Development Programme** to improve the subject knowledge and quality of the staff.

The below fig 9.2.5 shows about the corrective actions and student feedback analysis on curriculum and syllabus coverage has been taken with the **staff and student feedback committee members**.



Nawab Shah Alam Khan
COLLEGE OF ENGINEERING & TECHNOLOGY
Approved by AICTE | Permitted by Govt. of Telangana | Affiliated to JNTUH
EAMCET Code: NAWB | PGECET Code : NAWB1 | POLYCET Code : NAWB

Student Feedback Analysis On Curriculum and Syllabus

Academic Year: 2017

| S.no | Programme/ Specialization | Total no of Student in each department | No of Students participated in feedback | No. of Feedback received |
|---|---|---|---|---|
| | B.Tech | | | |
| 1 | I ye | 64 | 50 | 49 |
| 2 | II year | 47 | 40 | 38 |
| 3 | III year | 28 | 20 | 19 |
| 4 | IV year | 44 | 40 | 39 |
| TOTAL | | 183 | 150 | 145 |



**Areas of Performance Improvement:** **Reported to Council members.**

1. Some students are not able to manage the time in the end semester exams.
2) Final year students are not able to get a platform to get in contact with the companies.

**Action Taken:**

1) For the practice of the students to manage time and study well before exams, we will be conducting Pre Final exams.
2) The college will also be organizing the Job Fair, so that the students of final year will be getting an opportunity to face the interviews of different companies and get placed.

***Student feedback on (curriculum and Syllabus) 2017***

A Student feedback has collected based on facilities and curriculum policies an highest score is 80 % and average score is 10% was collected from teachers it talks about the opportunities and encouragement for pursuing the higher education.

*Note: Student feedback link is available on the college website.*

PRINCIPAL

Department of Computer Science & Engineering Nawab Shah Alam Khan College of Engineering & Technology Hyderabad-500024

**Fig 9.2.5 Student ...**

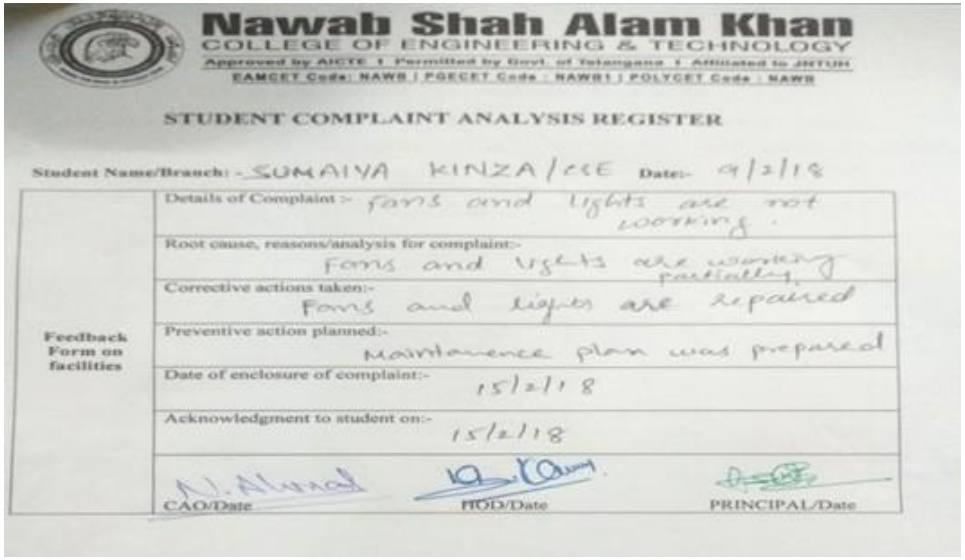
## 9.3 Feedback on facilities (5)

Total Marks 5.00

Institute Marks : 5.00

The Institute has a process of collecting the feedback from students every year on various facilities like Infrastructure, Laboratory, Maintenance, Library etc., the feedback forms are collected through suggestion box and analyzed then forwarded to principal office in order to take the corrective measures. The analysis process involves the following steps.

i. The feedback analysis is done manually.
ii. Collected feedback is scrutinized by the feedback committee.
iii. The feedback is quantified.
iv. All the parameters mentioned in the feedback form will be analyzed.
v. After analysis the complaints are forwarded to the principal office in order to take the corrective measures.



# Nawab Shah Alam Khan
## COLLEGE OF ENGINEERING & TECHNOLOGY

Approved by AICTE | Permitted by Govt. of Telangana | Affiliated to JNTUH

EAMCET Code: NAWB | PGECET Code : NAWB1 | POLYCET Code : NAWB

### STUDENT COMPLAINT ANALYSIS REGISTER

Student Name/Branch:- SUMAIYA KINZA / EEE Date:- 9/2/18

**Feedback Form on facilities**

Details of Complaint :- fans and lights are not working.

Root cause, reasons/analysis for complaint:- Fans and lights are working partially.

Corrective actions taken:- Fans and lights are repaired

Preventive action planned:- Maintanence plan was prepared

Date of enclosure of complaint:- 15/2/18

Acknowledgment to student on:- 15/2/18

CAO/Date HOD/Date PRINCIPAL/Date

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### FEEDBACK COLLECTION FORM ON FACILITIES

**Student Regd Number:** - 17RT1A0548 **Branch:-** CSE

| | Mode | PARAMETER | Need Improvement | Good | Satisfactory | Excellent |
|---|---|---|---|---|---|---|
| Feedback Collection Form on facilities | LIBRARY | Are the required number of titles in your subject available in the library | | | | ✓ |
| | | Do you have the facility of Digital Library | | | | ✓ |
| | INTERNET | Are you able to access internet center as and when required | | | ✓ | |
| | | Are you making use of educational online resources | | | | ✓ |
| | | Are there enough number of nodes available in the internet center | | | | ✓ |
| | | Are the net center staff co-Operative and helpful | | | | ✓ |
| | | Do you have free campus/departmental WI-FI | | | ✓ | |
| | LAB | Availability of Equipment | | | | ✓ |
| | | Working condition of Equipment | | | | ✓ |
| | | Staff support in lab | | | | ✓ |
| | | Fire safety | | | | ✓ |
| | CLASS ROOM | Size of class room | | | | ✓ |
| | | Lighting and ventilation | | | ✓ | |
| | | Projector | | | | ✓ |
| | | Smart class with smart board | | | | ✓ |
| | SPORTS FACILITY | Availability of variety of Sports | | ✓ | | |
| | | Availability of Sports material (ball, bat etc) | | | ✓ | |
| | | Availability of Indoor Games | | | ✓ | |
| | | Conduction of tournaments | | ✓ | | |
| | CANTEEN | Food price | | | ✓ | |
| | | Hygienic food | | | | ✓ |
| | | Clean place | | | | ✓ |
| | | Quantity | | ✓ | | |
| | | services | | | ✓ | |
| | INFRASTRUCTURE | Water plant | ✓ | | | |
| | | Parking | | | | ✓ |
| | | Toilets | ✓ | | | |
| | | Green Campus pedestrian friendly | | | | ✓ |
| | AMENITIES | CCTV Surveillance | | | | ✓ |
| | | Security guards | | | | ✓ |
| | | Waste pit | | | | ✓ |
| | | Generator | | | | ✓ |
| | | Wet Waste and Dry Waste | | | | ✓ |
| | | | | | | |
| | REMARKS ( if any ) | | | | | |

SIGNATURE

**9.4** **Self-Learning** (5)

Total Marks 5.00

Institute Marks : 5.00

**A. Scope for self-learning:**

Self –learning is carried in the institute by creating self-learning facilities under various modes. Students are encouraged for learning by personal counseling and organizing various contests.

The curriculum offers courses like self study, mini-project, major-project where the topic are self selected or based on guide suggestion. The component of self-learning is evaluated in these courses.

A discussion on new technology and its applications in real life that is beyond the syllabus occasionally past year

project and working models are made available to students for improvement and innovation. Some of the tasks in

the lab courses are challenge based which has to be solved by the students on their own enhancing their skills.

**B. Web-based Learning:**

The internet is an open information system in which various sources of information, media and materials such as

texts, images, video sequences can be linked together to form so called self-learning environment. Internet offers new

possibilities to structure, represent, adapt and integrate various learning content and materials.

The institute has internet library to promote and motivate students for self-learning.

**C. e-Learning with Multi-media:**

- Availability of course material on intra-net
- Digital library facility is available to the students for self-study, projects etc.


- Language lab facility for English communication skills, vocabulary,
- phonetics etc. LCD projectors for power point presentations.
- NPTEL videos are available in the form of CD for the students to acquire information of the curriculum subjects and beyond curriculum.

**D. Google Classrooms:**

- The Institution provides Google classrooms, which aim to simplify, creating, distributing, and grading assignments in a paperless way. The primary purpose of Google Classroom is to
- streamline the process of sharing files between teachers and students.
- Google Classroom makes teaching more productive and meaningful by streamlining assignments, boosting collaboration, and fostering communication. Educators can create classes, distribute
- assignments, send feedback, and see everything in one place. Classroom also seamlessly integrates with other Google tools like Google Docs and Drive. Each class creates a separate folder in the respective users Drive, where the student can submit work to be graded by a teacher. Teachers can monitor the progress for each student, and after being graded, teachers can return work along with comments.

**E. College & Departmental Libraries:**

College has a central library and departmental libraries which have specialized collection of books, journals and periodicals for self learning purpose.

**F. MOOC (Massive Open Online Course):**

A massive open online course is an online course aimed at unlimited participation and open access via the web. In addition to traditional course materials such as filmed lectures, Readings, and problem sets, many MOOCs provide interactive user forums to support community interactions between Students, Professors, and Teaching Assistants. MOOCs are a recent and widely researched development Program.

## 9.5 Career Guidance, Training, Placement (10)

Total Marks 10.00

Institute Marks : 10.00

**Career Guidance:** Effective career guidance services are provided for graduates to discover their strengths and weakness before venturing out into highly competitive world including counseling for higher studies. The Career guidance cell organizes seminars on interview skills, personality development, communication skills, leadership skills, resume writing, analytical skills, Quantitative ability, Verbal and reasoning skills essential to all competitive exams.

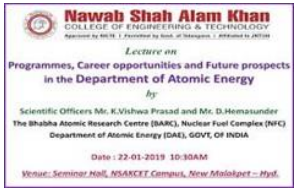
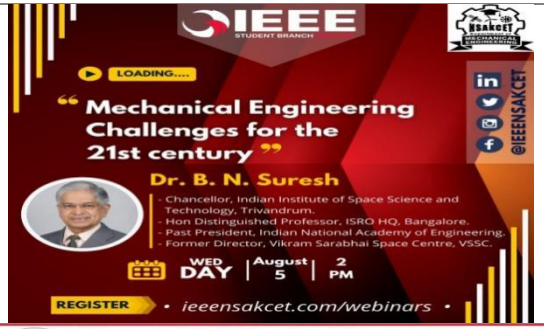
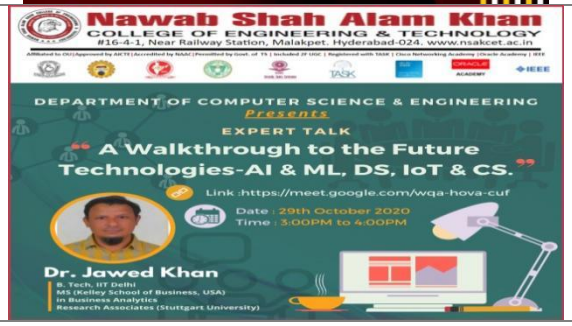
**Objective:**

1. To promote career counseling by organizing guidance lectures by senior corporate personnel.
2. To establish active communication with the industries.
3. To conduct awareness seminars for the preparation of campus placement.
4. 4. To coordinate campus placement procedures.

**Activities for career guidance cell:**

The career guidance Cell promotes the interests of students who wish to pursue higher education after their undergraduate studies.
The Cell conducts programs to:

- Create an interest in higher education as a necessity to meet career aspirations that a student can potentially achieve
- Make the students realize the prospect of higher studies and guide them to identify their area of interest, course, college and university within India and abroad
- Provide students with up-to-date information about their career growth and kindle their interest towards investing in hard work, optimum use of time and financial resources to shape their future
- Provide guidance to prepare and approach such examinations confidently.

| | |
|---|---|
| Guest lecture by **Dr. Syed Mujahed Hussaini**, about **"CAREER PLANNING: What after B.Tech"** on 27- December-2016. |  |
| Guest lecture by **Mr. K. VISHWAPRASAD and Mr. D.HEMASUNDER**, about **"Career Opportunities and Future Prospects"** on 22- December-2019. |  |
| Webinar by BN.SURESH, CHANCELLOR, IIT trivendrem on "C**hallenges & opportunities in mech engineering" ON 5.08.2020** |  |
| Webinar by **JAWED KHAN IIT, ALUMNI "opportunities in AI&ML, DS, DS" on 29.10.2020** |  |

Webinar by Dr.S.M HUSSAINI on "**Employment availability for engineers" on 2020**


**Nawab Shah Alam Khan College of Engineering & Technology**

**CAREER COUNSELING - FEEDBACK FORM**

Name of the session: C.O.P. Date: 22.1.19

Name of the student: M. Zania Hyder.

Branch: CSE Roll number: 14-3t-506

- Was the guidance up to your expectations?
  - o Yes
  - o No
- Would you like more time with the instructor forthis program?
  - o Yes
  - o No
- The speakers exhibited knowledge of content in presentation
  - o Yes
  - o No
- Speakers presented adequate accurate background information?
  - o Yes
  - o No
- Any other comments

**Placement & Training Cell -Facilities:**

- The Placement & Training Cell liaises with TASK to provide training in soft skills, personality development, Presentation skills, Group discussions, Aptitude and facing the interview board. The cell, after constant interaction with industries, gives feedback on the value added courses to be offered for various branches of Engineering.
- The Placement Cell arranges for Campus Recruitment by leading Companies through continuous Industry Institute Interaction, Company visits and excellent Partnerships.
- Coordinates with Industries for enhancing employability through intense Training in appropriate skills

- Students are referred to different Companies as well, for undergoing In-plant Training, Internships and for acquiring Practical Knowledge through exposure to industry environment; e.g. CISCO, Imaraat construction, Infosys, Golconda textiles etc. The Cell motivates and counsels the students to realize their potential.

**Placement & Training Cell -Facilities:**

- The Placement and Training Cell is functioning under the leadership of a Placement Officer and Department Coordinators. Well equipped Placement Cell
- facilities to conduct interviews/ GD's
- Well established computer facilities for aptitude and online tests
- It provides training for various personality development skills, soft skills, communication skills, presentation skills.

**Members in Placement Committee**

| S.No | Name | Designation | Role |
|---|---|---|---|
| 1 | **Dr. SYED ABDUL SATTAR, PRINCIPAL** | Chairman | To promote career counseling by organizing guidance lectures by senior corporate personnel.<br>2. To establish active communication with the industries.<br>3. To conduct awareness seminars for the preparation of campus placement.<br>4. To coordinate campus placement procedures. |
| 2 | **Mr. MAHESH SINGH BHATIA** | Convener | |
| 3 | **Mr. MOHAMMED RAFI , CIVIL DEPT** | Member | |
| 4 | **Mr. MOHAMMED KHALEEL AHMED, CSE DEPT** | Member | |
| 5 | **Mr. MOHAMMED ANWARUDDIN, ECE DEPT** | Member | |
| 6 | **Mr. SADDAM, EEE DEPT** | Member | |
| 7 | **Mr. MOHAMMED AYAZUDDIN,IT DEPT** | Member | |
| 8 | **Mr. SAADATH, MECH DEPT** | Member | |

**In- house training:**

| S.NO | Date | Name of the program | Aim of the program | Modules | No. of days/hours |
|---|---|---|---|---|---|
| 1. | 22.02.2016 | Technical training | To prepare students on technical skills for campus drive | SE,JAVA, DOT NET, PHP | 1 day |
| 2. | 11.08.2016 | Personal counseling session | To enhance Soft skills | Reasoning, verbal, quantitative, communication skills & personality development | Every second saturday |
| 3. | 26.09.2016 | Training by TASK | To prepare for interview | Presentation skills, GD, soft skills | 4 days |
| 4. | 15.03.2017 | Career | | To guide the students for | 1 day |

| | | | | | |
|---|---|---|---|---|---|
| | | counseling by free lancer | | future endeavours | |
| 5 | 11.10.2017 | Work shop on job readiness by global talent track | To prepare for interview skills | personality development, interview skills | 1 day |
| 6. | 13.01.2018 | Path creators | Introducing youngsters to corporate culture | Developing the youth leadership potential by interacting | 1 day |
| 7. | 22.02.2018 | Training on c& data structures | To prepare students on technical skills for campus drive | C& data structures | 1 day |
| 8. | 9.12.2018 | Mock interview | How to crack interview in companies | Interview skills | 1day |
| 9. | 03.03.2019 | Orientation session by IAEC | Career counseling & providing authentic guidance to Indian students for seeking higher education overseas | 1. What is IELTS?<br>2. Benefits of IELTS<br>3. Online resources for IELTS | 3 hours |
| 10. | 10.08.2019 | Edu quotient training india pvt ltd | To enhance aptitude & soft skills | Reasoning, verbal, quantitative, communication skills & personality development | 60 hours |
| 11. | 26.08.2020 | Quizine – A platter of Quizzes | To enhance technical skills | Python programming | |
| 12. | 08.09.2020 | Reflechir | To enhance technical skills | Signals and system | |
| 13. | 20.09.2020 | Quest | To prepare for higher education | Mock test (PGCET) | |
| 14. | 06.10.2020 | Training for govt. exams | To prepare for govt exams | Mock test (BSNL,MTNL,RRB) | |

**Intensive Training:**

Intensive in-house training will be given to the IV Year students for a period of 40 days immediately after their Sixth Semester exams are completed i.e., during their summer vacation. Training will be given in Aptitude, Technical as well as English Communication Skills and Soft skills. Besides training, mock online (both Internet and Intranet based) assessments will be conducted on a regular basis in our own.

The college is associated with various training partners like cisco networking academy, Telangana Academy for skills and knowledge, global track talent are some of the training and placement

activities. Some of the MOU's are mentioned for reference:

**CISCO networking academy:**

Cisco Networking Academy at Nawab Shah Alam Khan College of Engineering and Technology Campus

CISCO Academy provides training for computer hardware and networking for the students. It provides training for soft skills and technical skills for the students under the leadership of an instructor.

**Deccan textiles:**


**Hyderabad Deccan factory**:


**Global talent track:**


**Activity based Grammar teaching:**

Intricacies of grammar are made easy by encouraging activity based communication among the students.

| | |
|---|---|
| Self-Introduction | Story Ending |
| Listing, Scripting and Enacting | Stepping Into Others Shoes |
| Business Trip to Queristan | Mock Parliament |
| Loud Conversations | Mock Press |
| Battle of Words | Quiz on Vocabulary |

**Presentation Skills**

| |
|---|
| • Group Discussion |
| • Mock Interviews |
| • Conversations |
| • Declamations |
| Role-plays |

**Writing Skills:**

| | |
|---|---|
| Email Writing | Resume |
| • Picture Description | • Creative Writing |
| • Picture Interpretation | • Connecting the Hints |
| • Story Interpretation | |
| • Proverb Expansion | |

**Reading Skills:**

| |
|---|
| • Loud Reading with Stress and Intonation |
| • Reading Comprehension |

**Quantitative Aptitude Topics :**

| | |
|---|---|
| • Percentages | • Ratio and Proportion |

| | |
|---|---|
| Time & Work | Problems on Trains |
| Profit and Loss | Problems on Ages |
| • Pipes & Cisterns | • L.C.M & H.C.F |
| • Clocks | |

**Reasoning:**

| | |
|---|---|
| • Number Series Directions • | • Word Analogy & Classification Coded Inequalities • |
| Number • Analogy Seating Arrangements | Coding and Decoding Data • Sufficiency |
| Number Classification Blood Relations | Problems based on Alphabets Number Puzzles |
| Letter Series Analytical Reasoning | Number Ranking Odd man Out |
| • Letter Analogy & Classification • Logical Statements and Conclusions | • Word Analogy & Classification Coded • Inequalities |

**DEPARTMENT WISE PLACEMENT**

| Department | 2020-2021 | 2019-2020 | 2018-2019 | 2018-2017 | 2017-2016 |
|---|---|---|---|---|---|
| **CIVIL** | **27** | **36** | **25** | **30** | **70** |
| **MECH** | **32** | **32** | **30** | **20** | **62** |
| **CSE** | **31** | **14** | **10** | **18** | **30** |
| **IT** | **21** | **10** | **5** | **1** | **6** |
| **TOTAL** | **111** | **92** | **65** | **69** | **171** |

**Placement drive & training conducted at NSAKCET:**

| | |
|---|---|
| **Campus pool drive conducted on 16th feb 2018 atNSAKCET.** |   |
| **Campus pool drive conducted on 16th feb 2018 atNSAKCET.** |  |
| **Training program organized by TASK** |   |
| **Career counseling session** |  |
| **Aptitude training** |  |
| **Presentation skills** |   |

**9.6** **Entrepreneurship Cell** (5)

Total Marks 5.00

Institute Marks : 5.00

**QUESTION:**

**The institution may describe the facility, its management and its effectiveness in encouraging entrepreneurship and incubation. Success stories for each of these years are to be mentioned.**

**ANSWER:**

Entrepreneurship is increasingly recognized as an important driver of economic growth of a country. Even Govt. of India has recognized the importance of it. Entrepreneurship cell helps the students in identifying entrepreneurial opportunities by conducting surveys and business opportunities.

**Functions of the Cell:**

To invite renowned guests from small and large scale industries and organize orientation lectures. To visit nearby localities and promote entrepreneurial education to the students. Students are encouraged to utilize college facilities and laboratories in addition to their prescribed course of studies

**Motto:**

The institution has set up entrepreneurship cell which organizes interactions for motivating and encouraging students for entrepreneurship. The institution plans with technocrats and businessmen, and organizes industrial visits for respective field of specialization to gain practical knowledge. The cell also organizes interactive talks delivered by industrial executives and experts to instill entrepreneurship spirit and zeal amongst students. It encourages the students to think creatively and innovatively and guide them in their projects. The main policy of the institution is to create awareness and promote entrepreneurship skills among students. It is to encourage the staff and students to involve themselves in innovative practices and various researches which in turn lead to research publication.

**Entrepreneurship Committee: AY 2020-21**

| S.No. | Name | Designation | Role |
|---|---|---|---|
| 1. | **Dr. SYED ABDUL SATTAR,** PRINCIPAL | **CHAIRMAN** | 1. To develop and strengthen entrepreneurial qualities in the budding professionals who are interested in starting their own ventures.<br><br>2. EDC also assists all the aspirants with mentoring, planning and execution of their start up idea into a real business.<br><br>3. They also organize different activities and events from time to time to train and motivate the students on entrepreneurship. |
| 2. | **Dr. MUJAHID HUSSAINI,** HOD MECH | **PRESIDENT OF IIC** | |
| 3. | **Dr. AMARESH BABU SOANPET** | **VICE PRESIDENT IIC** | |
| 4. | **PROF SYED FARRUKH ANWAR,** VP ADMIN | **CONVENER** | |
| 5. | **Mr. RAZA AHMED KHAN** | **COORDINATOR INCUBATION** | |
| 6. | **MR.MOHAMMED KHALEEL AHMED** | **COORDINATOR IPR CELL** | |
| 7. | **MR.NISAR AHMED** | **COORDINATOR PUBLICITY** | |
| 8. | **DR.MOHAMMED SANAULLAH QASEEM** | **COORDINATOR NIRF RANK** | |
| 9. | **MR.MOHD AYAZUDDIN** | **COORDINATOR-ARIIA RANKING** | |

**Entrepreneurship Committee: AY 2019-20**

| S.No. | Name | Designation | Role |
|---|---|---|---|
| 1. | **Dr. SYED ABDUL SATTAR** PRINCIPAL | **CHAIRMAN** | 1. To develop and strengthen entrepreneurial qualities in the budding professionals who are interested in starting their own ventures.<br>2. EDC also assists all the aspirants with mentoring, planning and execution of their start up idea into a real business.<br>3. They also organize different activities and events from time to time to train and motivate the students on entrepreneurship. |
| 2. | **Dr. MUJAHID HUSSAINI** HOD MECH | **CONVENOR** | |
| 3. | **Dr. ZAHIR HASAN** DIRECTOR R&D | **MEMBER** | |
| 4. | **PROF SYED FARRUKH ANWAR** VP ADMIN | **MEMBER** | |
| 5. | **Dr. RAMESH REDDY** DIRECTOR R&D | **MEMBER** | |
| 6. | **Mr. P RAMULU** DIPLOMA PRINCIPAL | **MEMBER** | |

## 9.7 Co-curricular and Extra-curricular Activities (10)

Total Marks 10.00

Institute Marks : 10.00

**SPORTS**

For the well being and physical fitness of the students Nawab Shan Alam Khan College of Engineering & Technology provides several sports facilities outdoor as well as indoor games. Sports activities are an integral part of student's career. Our college believes that providing sports remove student's mental exhaustion. The students have shown great interest in outdoor games. Due to these extra curriculum activities students of Nawab Shah Alam Khan College of Engineering & Technology get the platform to explore their talent and excel in it. Our college celebrates Sports Day and students participate in various sports and games like table tennis, cricket, chess, caroms, volleyball, football, basketball, badminton, rangoli, mehendi and painting and the winners are awarded prizes.

Regular training is provided in the campus in order to exhibit their talent in a particular sport and game for the individual or group of students.

Under the guidance of Mr. Akeem Mohammed, B.P.Ed, (pursuing M.P.Ed) the Physical Director of the college. Students of our college participate in various level of competition including intra college events, inter university events, national events and international events. All the participants are awarded participation certificates. The sports events could not be conducted in the year 2020 due to the COVID 19 Pandemic.

**Caroms**

**Chess**

**Table Tennis**

**Cricket**

**Sports Day Celebration 2017**

**GRADUATION DAY**

Graduation day is an annual event organised every year for Diploma, UG & PG in the campus. Eminent academicians from JNTUH, Osmania University, IITH & IIITH are invited to address the students. The chief guest congratulated the students, appreciated parents and faculties for their support in creating eminent professionals. Graduated and Post graduates received their graduation certificates from Chief Guest and Guest of Honour. Graduation day could not be conducted in the year 2020 due to the COVID 19 Pandemic.

**Graduation Day celebration 2019**


**TECHNICAL FEST**

Techno Vision is an annual event where in students of Diploma, UG & PG showcase their technical talent through various innovative models and exhibits. Students actively participate in all the events and present their work. Events like technical expo, fun events like gaming, food stalls and many more events are organised. The winners are awarded and participants are given participation certificates. Techno vision has been started since 2017-18. The annual event was conducted in 2018-19 and 2019-20 as well. How ever in the 2020-21 AY the Techno Fest is scheduled in the month of June 2021 if the pandemic situation permits.

**TECHNO VISION 2018**

**TECHNO VISION 2020**


**ORIENTATION PROGRAM**

Orientation Program for the newly admitted undergraduate students is an annual event organised every year. Students and their parents are formally invited. As part of the orientation program eminent academicians like JNTUH, Osmania University, IITH & IIITH are invited to address and orient the students as per the AICTE mandate. Apart from this expert from industries are also invited so as to orient the students about the industry requirements and trends.

## Orientation Program 2020

A three week Students Induction Program SIP 2020 was conducted as per the directives of the AICTE from 5th to 19th December 2020. Dr. Mohammad Sanaullah Qaseem was the Coordinator and Mr. Raza Ahmed Khan and Mr. Mohammed Khaleel Ahmed were the Co-coordinators. Transition from school to university/college life is one of the most challenging events in a student's life. Usually little is done by most institutions, except for an orientation program lasting a couple of days. Due the Corona Pandemic an online Student Induction Programme was designed to help in the whole process which covered all the aspects not limited to College Introduction, Curriculum & Evaluations, Universal Human Values, Career Opportunities, Time Management, Health & Hygiene, Life Skills,

Communication Skills, Why the need of Programming in today's world, Data Science, AI & ML: The difference and Applications to name a few. Students attended in good numbers. The parents were also invited to the Inaugural and the Valedictory sessions and were very impressed with the presentations and the orientation activities.

**ORIENTATION & STUDENTS INDUCTION PROGRAM (SIP)**

**For Newly Admitted BE First Year Students 2020-21. Sessions in Red font: Institutional level sessions (common to all branches), Blue font : Departmental sessions**

| Day | Session # 1 | Session # 2 | Session # 3 | Session # 4 |
|---|---|---|---|---|
| Date | 10:30 am - 11:00 am | 11:00 am - 11:30 am | 11:30 am - 12:00 noon | 12:00 noon - 12:30 pm |
| SIP-Day1 | INAUGURAL SESSION | | | |
| 05-12-20 | Complete Inaugural day Schedule attached | | | |
| SIP-Day 2 | College Introduction | Curriculum & Evaluations | How to be Successful? | |
| 07-12-20 | Dr. Syed Abdul Sattar | Prof. Syed Farrukh Anwar | Mr. Nisar Ahmed | |
| SIP-Day 3 | Bharat Bandh - No session - Rescheduled to 12-12-2020 | | | |
| 08-12-20 | | | | |
| SIP-Day 4 | Universal Human Values | | | Computer Skills for Engineers |
| 09-12-20 | Dr. Mohammad Sanaullah Qaseem | | | Dr. Riyazuddin Siddiqui |
| SIP-Day 5 | Career Opportunities | | Time Management | Health & Hygiene |
| 10-12-20 | Dr. Syed Mujahid Hussaini | | Dr. G. S. Rao | Dr. Atif Ismail (DARE) |
| SIP-Day 6 | Life Skills | | Jobs & Placements | |
| 11-12-20 | Prof. Raza Ahmed Khan | | Mr. M. S. Bhatia | |
| SIP-Day 7 | Communication Skills | Role of Engineers in our Society | Role of Chemistry in our Everyday Life | |
| 12-12-20 | Ms. Sabiha Khatoon | Dr. Zahir Hasan | Dr. Mir Moazzam Ali | |
| SIP-Day 8 | Why the need of Programming in today's world | | Details of Academic Regulations | |
| 14-12-20 | Mr.Mohammed Khaleel Ahmed | | MR. Mohammed Ayazuddin | |
| SIP-Day 9 | Beware with Cyber Attacks | | A New Era Of Emerging Technologies: Welcome To The Age Of Intelligence | |
| 15-12-20 | Ms. Firdous Rehana | | Ms. Syeda Farhath Begum | |
| SIP-Day 9 | Evolution of Digital Electronics | Data Science, AI & ML: The difference and Applications | | |
| 16-12-20 | Mr. D. Akbar Hussain | Ms. Fareeha Rasheed (MANUU) | | |
| SIP-Day 10 | Information Technology, trends and Cognitive Skills | | Necessity of Block Chain in Today's Era | Career Opportunities |
| 17-12-20 | Mr. Q.M. A. Basheer | | Ms. Waseema Masood | Ms. Munawar Khatoon |
| SIP-Day 11 | Computer Skills for Engineerings | | Cyber Security & Preventions | Recap and Feedback Session |
| 18-12-20 | Dr. Riyazoddin Siddiqui | | Ms.Asma Mehdia | Dr. Mohammad Sanaullah Qaseem |
| SIP-Day12 | VALEDICTORY SESSION | | | |
| 19-12-20 | Complete Valedictory day Schedule attached | | | |

**Orientation Program 2018**


**Sports Facilities**

**List of Outdoor Games Facilities:**

| S.No | Name of the sport facility |
|---|---|
| 1 | Cricket |
| 2 | Volleyball court |
| 3 | Football Field |
| 4 | Basketball court(cement floor) |
| 5 | Badminton court |
| 6 | Archery |

**List of Indoor Games Facilities:**

| S.No | Name of the sport facility |
|---|---|
| 1 | Table tennis |
| 2 | Caroms |
| 3 | Chess |

**List of sports events participated in 2018-19**

| S.No | Date | Event | Conducted | Level | Place Visit |
|---|---|---|---|---|---|
| 1. | 06-09-2019 & 07-09-2019 | Volleyball | Osmania university | Inter college university | Bhavan's degree college,sainikpuri ,sec-bad. |
| 2. | 19-09-2019 20-09-2019 21-09-2019 | Volleyball, Football & Cricket | Vardhaman College of Engineering | college sports fest | Nagarguda shamshabad road, kacharam, Hyderabad,telangana 501218 |
| 3. | 01-10-2019 | Wrestling | JNTU | Inter college university | LB stadium |
| 4. | 14-10-2019 to 20-10-2019 | Football | Reliance youth foundation | Knot out match | CMR Clg , Vijayanagar Colony Ground . |
| 5. | 31-10-2019 | Football | Reliance youth foundation | Qualifying Match | Vijayanagar colony ground |
| 6. | 01-11-2019 | Football | Sports tourism of Inida | State level Match | Sports City Resort , Moinabad |
| 7. | 02-11-2019 | Football | Reliance youth foundation | Group stage Match (Quater Final) | Vijayanagar colony ground |
| 8. | 07-11-2019, 08-11-2019 | Volleyball | Marri Laxman Reddy Institute of Technology | College Fest | Dundigal police station, road, Hyderabad, Telangana 500043 |
| 9. | 13-11-2019 to 20-11-2019 | Draught game | Draughts association of india | National level | C.L Aggarwal D.A.V Model School, Sector- 7B, Chandigarh |
| 10. | 15-11-2019 to 17-11-2019 | Football | 1St 7-A Side Football National championship-2019 | National Level | Vikramaditya Global School, Sampla(Rohtak) Haryana. |

| | | | | | |
|---|---|---|---|---|---|
| 11. | 25-1-2019 | Football | Osmania Medical College from reliance youth foundation | Friendly match | Osmania medical college, Koti. |
| 12. | 18-12-2019<br>23-12-2019 | Cricket | 6A side cricket Federation of India | National level | Punjab public school, Nabha, Punjab. |
| 13. | 28-12-2019<br>29-12-2019<br>30-12-2019 | Football | Sports tourism of India & Maheshwari International School | National level | Ajmer , Rajasthan |

**National Service Scheme (NSS)**

NSS volunteers of our college are playing a major role in creating health awareness. The main objectives of NSS are to identify the needs and problems of the community and involve them in problem solving, to develop a sense of social and civic responsibility, utilise their knowledge in finding practical solutions to individual and community problems, acquire leadership qualities and democratic attitudes and gain skills in mobilising community participation.

The NSS has organised many activities that had great impact on faculties and students

- Free Eye Check-up Camp was organised by ”Kanti Velugu” Govt.of Telangana on 4th October 2018 at the seminar hall of the college enabling the faculties, Students and locality people
- known their visual defects like eye diseases, infections need of spectacles, their numbering etc. Our college students and NSS volunteers had planted about 1000 saplings in premises of the college.
- As part of Swacch Bharat program students of Nawab Shah Alam Khan College have participated and engaged themselves cleaning of the roads leading to the college.
- An awareness programme on crime against women was organised by SHE TEAM Hyderabad City Police.
- Faculty and students participated in PADA YATRA on the occasion of 150th birth anniversary of Mahatma Gandhi on 15th August 2019
- A Dental Camp was organised under national service scheme by Bright Smile Super Speciality Hospital.
- Students and volunteers actively participated in Haritha Haram, a flagship program of Telangana government.
- Engineers Day is celebrated to commemorate the Birth anniversary of Sri. M. Visvesvaraya.
- A blood donation camp was organised under national service scheme in coordination with Princess Esra Hospital.
- A fifteen day programme on Jal Shakti Abhiyan, working on war footing to save water and Single Use Plastic, to make plastic free India was organised.

**List of NSS activities during the year 2020-21**

| S. No | Date | Name of the activity | Organizing unit/agency/collaborating agency | No. Of students/faculties/volunteers participated |
|---|---|---|---|---|
| 1 | 21-07-2020 | Food distribution to the needy during the COVID Pandemic | NSS | 10 |
| 2 | 20-10-2020 | Flood relief work in Hyderabad affected areas | NSS | 15 |

**List of NSS activities during the year 2019-20**

| S. No | Date | Name of the activity | Organizing unit/agency/collaborating agency | No. Of students/faculties/volunteers participated |
|---|---|---|---|---|
| 1 | 23-10-2019 | Awareness programme on crime against women | SHE TEAM Hyderabad City Police/NSS | 45 |
| 2 | 15-08-2019 | One student one tree initiative | NSS | 750 |
| 3 | 15-08-2019 | PADA YATRA | NSS | 190 |
| 4 | 01-09-2019 to 15-09-2019 | Jal Shakti Abhiyan | NSS | 62 |
| 5 | 01-09-2019 to 15-09-2019 | Single Use Plastic | NSS | 62 |
| 6 | 15-09-2019 | Engineers Day | NSS | 760 |
| 7 | 30-08-2019 | Haritha Haram | NSS | 180 |

**List of NSS activities during the year 2018-19**

| S.No | Date | Name of the activity | Organizing unit/agency/collaborating agency | No. Of students/faculties/volunteers participated |
|---|---|---|---|---|
| 1 | 31-04-2019 | World No Tobacco Day | NSS | 54 |
| 2 | 04-10-2018 | Eye Check-up Camp | Kanti Velugu, Govt of Telangana | 61 |

**List of NSS activities during the year 2017-18**

| S.No | Date | Name of the activity | Organizing unit/agency/collaborating agency | No. Of students/faculties/volunteers participated |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 1 | 23-01-2018 | Dental Camp | NSS/BRIGHT SMILE SUPER SPECIALITY HOSPITAL | 474 |
| 2 | 20-01-2018 | Tree plantation in memory of Mr. Nawab Shah Alam Khan | NSS | 112 |
| 3 | 20-09-2017 | Swacch Bharat Abhiyan | NSS | 199 |
| 4 | 30-08-2017 | Haritha Haram | NSS | 188 |

**List of NSS activities during the year 2016-17**

| S.No | Date | Name of the activity | Organizing unit/agency/collaborating agency | No. Of students/faculties/volunteers participated |
|---|---|---|---|---|
| 1 | 10-05-2017 to 11-05-2017 | Eye Check-up Camp | NSS/RX OPTICALS | 760 |
| 2 | 22-04-2017 | Blood Donation Camp | NSS/ PRINCESS ESRA HOSPITAL | 89 |
| 3 | 13-04-2017 | Swacch Bharat Abhiyan | NSS | 182 |

NSS Activities during 2020-21 (Flood relief work)

**Eye Check-up Camp "Kanti Velugu" (04-10-2018)**


**Haritha Haram (30-08-2019)** **Engineers Day (15-09-2019)**

**Awareness Programme on Crime Against Women (23-10-2019)**


**Blood Donation camp (22-04-2017)**

**Dental Camp (23-01-2018)**

## 10 GOVERNANCE, INSTITUTIONAL SUPPORT AND FINANCIAL RESOURCES (120) **Total Marks 120.00**

**10.1 Organization, Governance and Transparency** (40) Total Marks 40.00

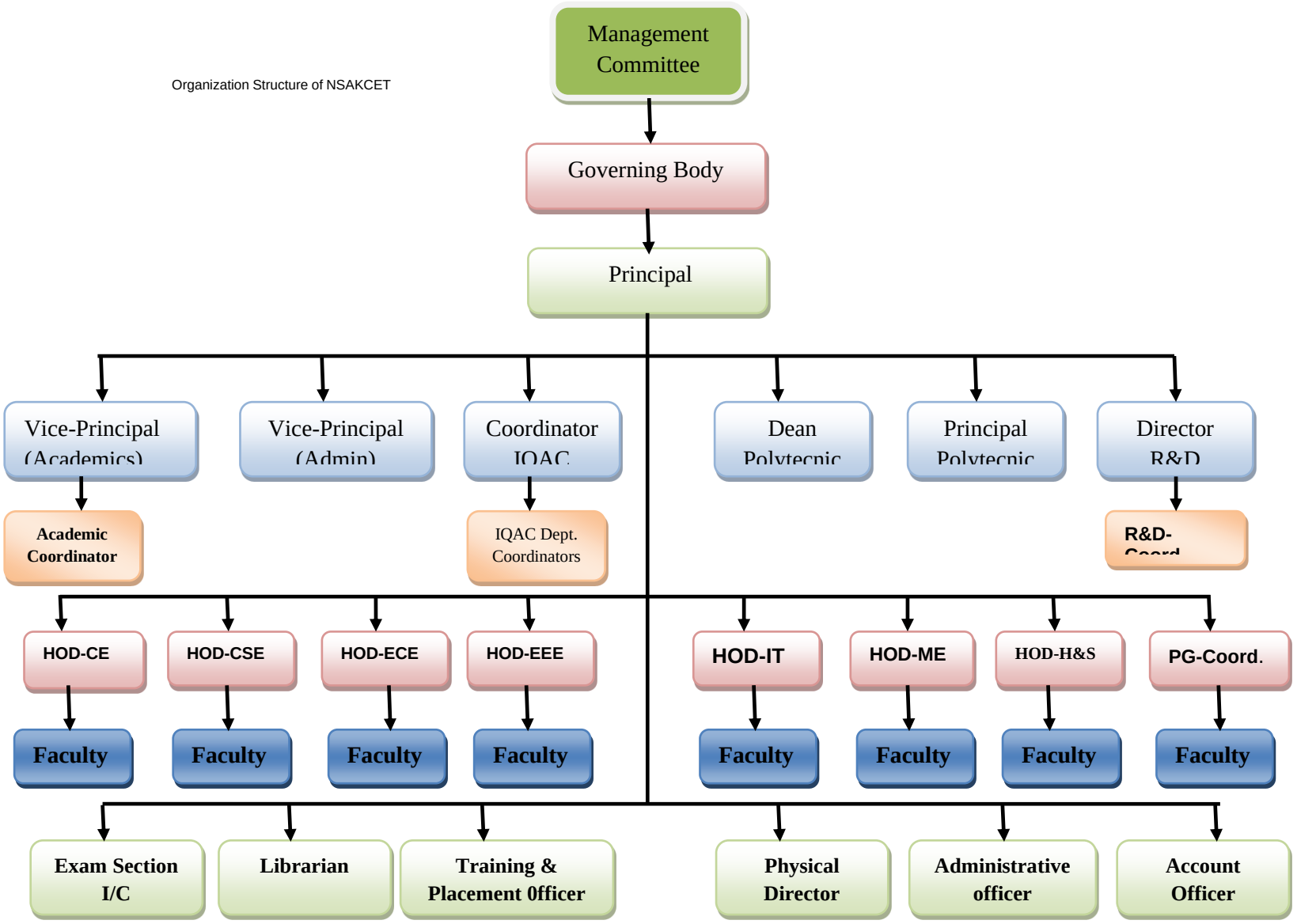
**10.1.1 State the Vision and Mission of the Institute** (5) Institute Marks : 5.00

| **Vision :** |
| --- |
| To impart quality technical education with strong ethics, producing technically sound engineers capable of serving the society and the nation in a responsible manner. |
| **Mission :** |
| **M1:** To provide adequate knowledge encompassing strong technical concepts and soft skills thereby inculcating sound ethics.<br><br>**M2:** To provide a conducive environment to nurture creativity in teaching- learning process.<br><br>**M3:** To identify and provide facilities which create opportunities for deserving students of all communities to excel in their chosen fields.<br><br>**M4:** To strive and contribute to the needs of the society and the nation by applying advanced engineering and technical concepts. |

**10.1.2 Governing body, administrative setup, functions of various bodies, Service rules, procedures, recruitment and promotional policies** (10) Institute Marks : 10.00

Nawab Shah Alam Khan College of Engineering and Technology was established in the year 2008 under Madrasa-i-Aizza Society. The institution has a governing body that makes policy decisions after identifying the needs of the college and to achieve the vision and mission of the institution. It has an effective organization structure which monitors and improves the overall performance. The organizational structure of the institution is given below.

Organization Structure of NSAKCET



A. List of governing body composition and other academic and administrative bodies I) Governing Body Members:

The Institution has a governing body. It is a policy making body of the institution and meets frequently and discusses the agenda prepared by the Member Secretary. It reviews the performance of the institution and decision taken in the previous meeting and also approves the policy decisions.

Table: 10.1.1. Members of Governing Body 2020-2021 of NSAKCET

| S. No. | Name | Position in Governing Body |
|---|---|---|
| 1 | **Mr. MEHBOOB ALAM KHAN** | **CHAIRMAN** |
| 2 | **Mr. MUJAHID ALAM KHAN** | **MEMBER** |
| 3 | **Dr. MIR MOAZZAM ALI** | **MEMBER** |
| 4 | **Mr. AHMED BAIG** | **EDUCATIONIST MEMBER** |
| 5 | **Mr. HAJI SAJJAD** | **BUSINESSMAN MEMBER** |
| 6 | **Dr. SYED ABDUL SATTAR (PRINCIPAL)** | **MEMBER SECRETARY** |
| 7 | **REGIONAL OFFICER, SCRO** | **AICTE NOMINEE** |
| 8 | **DR. MANZOOR HUSSAIN** | **UNIVERSITY NOMINEE** |
| 9 | **TSCHE nominee** | **Govt. Nominee** |
| 10 | **MR. SYED FARRUKH ANWAR** | **MEMBER** |
| 11 | **DR. MOHAMMAD SANAULLAH QASEEM** | **MEMBER** |

**Meeting:**

The Governing Body meets at least twice a year. All such meetings held within the Institute campus. In the absence of the Chairman, the members can elect a pro-term Chairman from amongst the members present for that meeting. It shall be the responsibility of the Member Secretary to ensure that the meetings are held regularly and the minutes are recorded. The presence of the University nominee for the meetings is mandatory.

Functions:

The Governing Body besides being the supreme administrative authority of the College,

- have the following additional functions To monitor the academic and other related activities of the College.
- To consider the recommendations of the Staff Selection Committee.
- To consider the important communications, policy decisions received from the University, government, AICTE, etc., from time to time. To monitor the students' performances and faculty development programmes.
- To consider the recommendations of planning and monitoring board of the College for implementation. To pass the annual budget of the

College.

- To check the audited income and expenditure accounts and approve the same for the College annually. To approve the increase/reduction
- of intake, courses, new and closure
- To monitor the steps taken for students' training and placement activities.

**II) Different committees and frequency of meeting**

There are number of committees in the college which work for the welfare of the students and faculties. The members of these committees are nominated by the chairman of the governing body. The various committees along with conveners are as follows:

**Table: 10.1.2. Various Committees with Conveners**

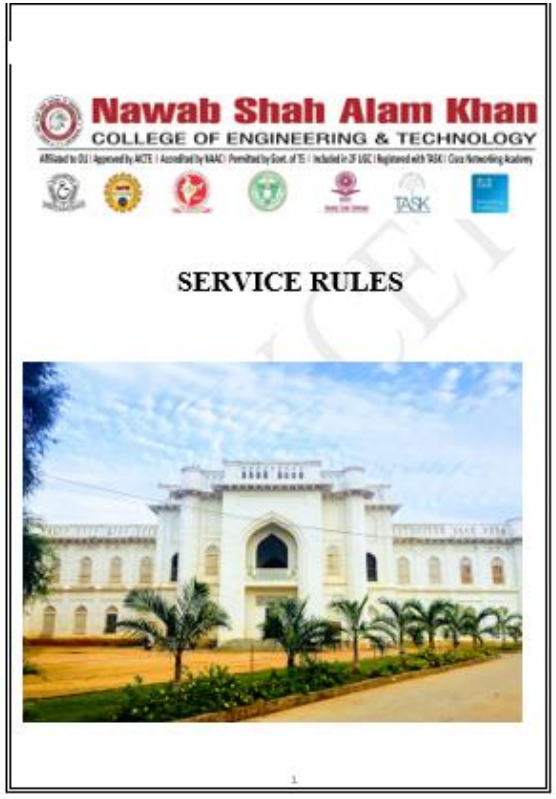
| S. No. | Names of the committee | Name of the Chairman/Convener | Frequency of Meetings |
|---|---|---|---|
| 1 | Finance Committee | Dr. Syed Abdul Sattar | Yearly twice |
| 2 | College Academic Committee | Dr. Mohammad S Qaseem | Yearly four times |
| 3 | Women Protection Committee | Ms. Shanila Mehreen | Yearly twice, as and when required |
| 4 | Entrepreneurship Development Cell | Dr. S. Mujahid Hussaini | Yearly twice |
| 5 | Grievance Redressal Cell | Mr. Raza Ahmed Khan | Yearly twice, as and when required |
| 6 | R & D Cell | Dr. Zahir Hasan | Yearly twice |
| 7 | Anti Ragging Committee | Mr. Mohammed Zaker | Yearly twice |
| 8 | Internal Quality Assurance Committee | Dr. Mohammad S Qaseem | Quarterly |
| 9 | Sports & Cultural Committee | Mr. Hakeem | Quarterly |
| 10 | Disciplinary Committee | Mr. Syed Farrukh Anwar | Yearly Twice<br>As and when required |
| 11 | Staff Selection Committee | Dr. Mohammad S Qaseem | Yearly twice |
| 12 | Training and Placement Committee | Mr.Mahesh Singh Bhatia | Quarterly |
| 13 | Alumni Association | Mr. Mohammed Ayazuddin | Yearly once |
| 14 | Examination Monitoring Committee | Mr. Vijay K. Gudivada | Bi-Monthly |
| 15 | Library Committee | Dr. Mujahid Hussaini | Yearly twice |
| 16 | Industry Institute Interaction | Dr. S.Mujahed Hussaini | Yearly twice |

| | | | |
|---|---|---|---|
| | Committee | | |
| 17 | SC/ST Committee | Mr. P. Ramulu | Yearly twice |
| 18 | NSS Committee | Mr. Mohd. Abdul Moyeed | Quarterly |
| 19 | Staff & Student Feedback Committee | Mr. Mohd. Khaleel Ahmed | Quarterly |
| 20 | Committee for Differently Abled | Ms. Rehana Firdous | Yearly twice |
| 21 | IPR Cell | Dr. S. Mujahid Hussaini | Yearly twice |
| 22 | Time Table Committee | Mr. Syed Farrukh Anwar | Yearly twice |
| 23 | BOG | Dr. Syed Abdul Sattar | Yearly twice |
| 24 | Minority / OBC | Mr. Mohd. Nayeem | Yearly twice |

A. Service rules, Policies and procedures:

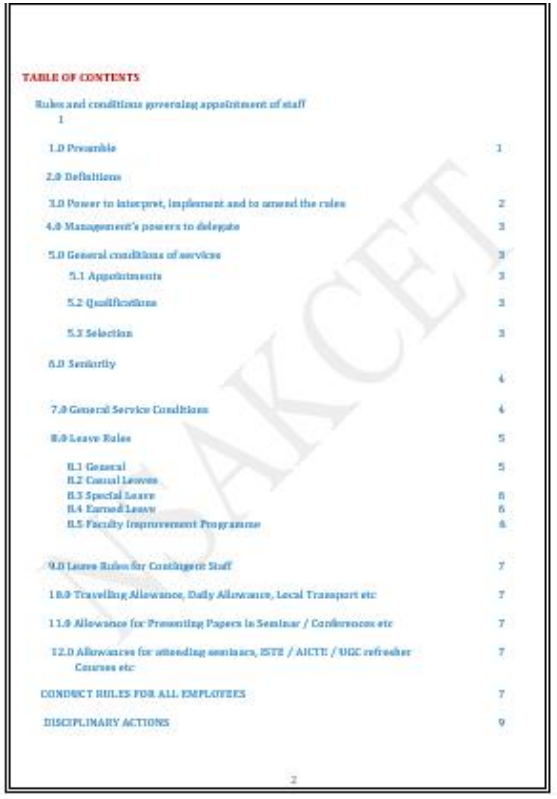
The institution has its own service rules, policies and procedures for effective functioning of the institution. It is published in 2015.All these are available at Principal's office, HOD's office and institution website.

Service rules, Policies and procedures are attached herewith


Nawab Shah Alam Khan
COLLEGE OF ENGINEERING & TECHNOLOGY

SERVICE RULES

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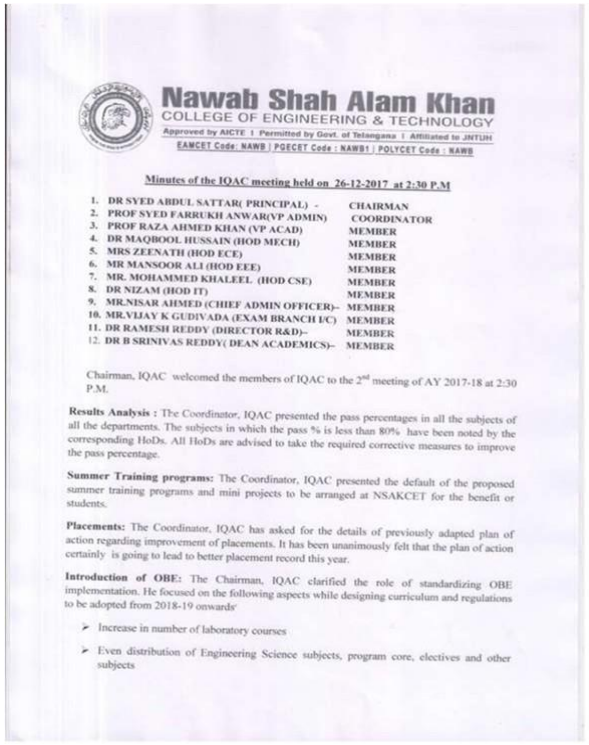
A. Minutes of the meeting and action taken report



**Nawab Shah Alam Khan**
COLLEGE OF ENGINEERING & TECHNOLOGY
Approved by AICTE | Permitted by Govt. of Telangana | Affiliated to JNTUH
EAMCET Code: NAWB | PGECET Code : NAWB1 | POLYCET Code : NAWB

**Minutes of the IQAC meeting held on 26-12-2017 at 2:30 P.M**

| | | |
|---|---|---|
| 1. | DR SYED ABDUL SATTAR( PRINCIPAL) - | CHAIRMAN |
| 2. | PROF SYED FARRUKH ANWAR(VP ADMIN) | COORDINATOR |
| 3. | PROF RAZA AHMED KHAN (VP ACAD) | MEMBER |
| 4. | DR MAQBOOL HUSSAIN (HOD MECH) | MEMBER |
| 5. | MRS ZEENATH (HOD ECE) | MEMBER |
| 6. | MR MANSOOR ALI (HOD EEE) | MEMBER |
| 7. | MR. MOHAMMED KHALEEL (HOD CSE) | MEMBER |
| 8. | DR NIZAM (HOD IT) | MEMBER |
| 9. | MR.NISAR AHMED (CHIEF ADMIN OFFICER)- | MEMBER |
| 10. | MR.VIJAY K GUDIVADA (EXAM BRANCH I/C) | MEMBER |
| 11. | DR RAMESH REDDY (DIRECTOR R&D)- | MEMBER |
| 12. | DR B SRINIVAS REDDY( DEAN ACADEMICS)- | MEMBER |

Chairman, IQAC welcomed the members of IQAC to the 2nd meeting of AY 2017-18 at 2:30 P.M.

**Results Analysis :** The Coordinator, IQAC presented the pass percentages in all the subjects of all the departments. The subjects in which the pass % is less than 80% have been noted by the corresponding HoDs. All HoDs are advised to take the required corrective measures to improve the pass percentage.

**Summer Training programs:** The Coordinator, IQAC presented the default of the proposed summer training programs and mini projects to be arranged at NSAKCET for the benefit or students.

**Placements:** The Coordinator, IQAC has asked for the details of previously adapted plan of action regarding improvement of placements. It has been unanimously felt that the plan of action certainly is going to lead to better placement record this year.

**Introduction of OBE:** The Chairman, IQAC clarified the role of standardizing OBE implementation. He focused on the following aspects while designing curriculum and regulations to be adopted from 2018-19 onwards'

- Increase in number of laboratory courses
- Even distribution of Engineering Science subjects, program core, electives and other subjects
- Suitability of industry requirements
- Specification of COs & POs and mapping methods of OBE
- Wider choice of elective subjects

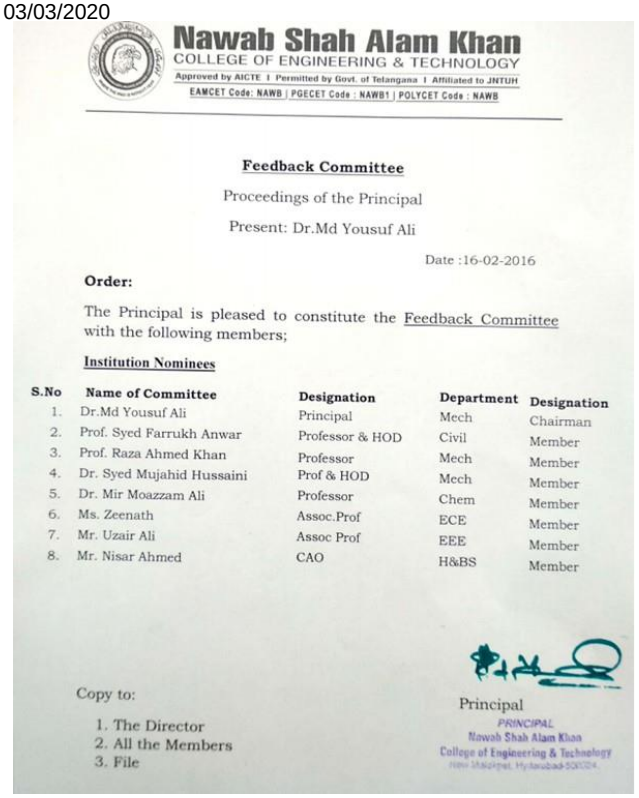
Accordingly all the departments have been advised to propose draft syllabi for all subjects with all the other required specifications at the earliest

The Chairman, IQAC concluded the meeting with a vote of thanks

Coordinator - IQAC
NAAC
Coordinator

Chairman - IQAC
PRINCIPAL
Nawab Shah Alam Khan
College of Engineering & Technology
New Malakpet, Hyderabad-500024.

**Sample copies of minutes of meeting**



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**Feedback Committee**

Proceedings of the Principal

Present: Dr.Md Yousuf Ali

Date :16-02-2016

**Order:**

The Principal is pleased to constitute the Feedback Committee with the following members;

**Institution Nominees**

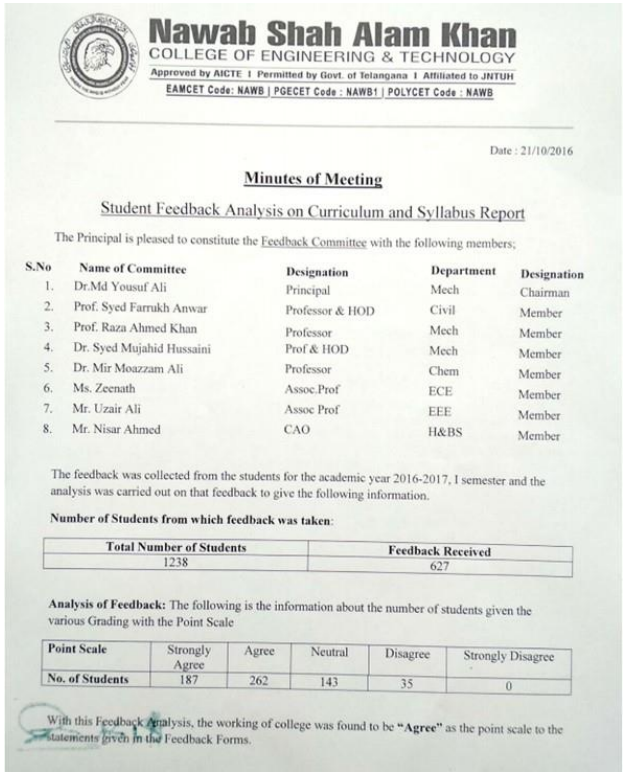
| S.No | Name of Committee | Designation | Department | Designation |
|---|---|---|---|---|
| 1. | Dr.Md Yousuf Ali | Principal | Mech | Chairman |
| 2. | Prof. Syed Farrukh Anwar | Professor & HOD | Civil | Member |
| 3. | Prof. Raza Ahmed Khan | Professor | Mech | Member |
| 4. | Dr. Syed Mujahid Hussaini | Prof & HOD | Mech | Member |
| 5. | Dr. Mir Moazzam Ali | Professor | Chem | Member |
| 6. | Ms. Zeenath | Assoc.Prof | ECE | Member |
| 7. | Mr. Uzair Ali | Assoc Prof | EEE | Member |
| 8. | Mr. Nisar Ahmed | CAO | H&BS | Member |

Copy to:

1. The Director
2. All the Members
3. File

Principal

PRINCIPAL
Nawab Shah Alam Khan
College of Engineering & Technology



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Date : 21/10/2016

**Minutes of Meeting**

Student Feedback Analysis on Curriculum and Syllabus Report

The Principal is pleased to constitute the Feedback Committee with the following members;

| S.No | Name of Committee | Designation | Department | Designation |
|---|---|---|---|---|
| 1. | Dr.Md Yousuf Ali | Principal | Mech | Chairman |
| 2. | Prof. Syed Farrukh Anwar | Professor & HOD | Civil | Member |
| 3. | Prof. Raza Ahmed Khan | Professor | Mech | Member |
| 4. | Dr. Syed Mujahid Hussaini | Prof & HOD | Mech | Member |
| 5. | Dr. Mir Moazzam Ali | Professor | Chem | Member |
| 6. | Ms. Zeenath | Assoc.Prof | ECE | Member |
| 7. | Mr. Uzair Ali | Assoc Prof | EEE | Member |
| 8. | Mr. Nisar Ahmed | CAO | H&BS | Member |

The feedback was collected from the students for the academic year 2016-2017, I semester and the analysis was carried out on that feedback to give the following information.

**Number of Students from which feedback was taken**:

| Total Number of Students | Feedback Received |
|---|---|
| 1238 | 627 |

**Analysis of Feedback:** The following is the information about the number of students given the various Grading with the Point Scale

| Point Scale | Strongly Agree | Agree | Neutral | Disagree | Strongly Disagree |
|---|---|---|---|---|---|
| No. of Students | 187 | 262 | 143 | 35 | 0 |

With this Feedback Analysis, the working of college was found to be **"Agree"** as the point scale to the statements given in the Feedback Forms.

The feedback was thoroughly examined and came up with some key points from the remarks.

**Problems Encountered:**

1) Some students are not able to manage the time in the end semester exams.
2) Final year students are not able to get a platform to get in contact with the companies.

**Action Taken:**

1) For the practice of the students to manage time and study well before exams, we will be conducting Pre Final exams.
2) The college will also be organizing the Job Fair, so that the students of final year will be getting an opportunity to face the interviews of different companies and get placed.

**The following are the statements considered for evaluating the Feedback**

**A. CONTENT COURSE**

1. The faculty covers the entire syllabus and topics in detail.
2. The faculty possesses deep knowledge of the subject taught
3. The faculty communicates clearly

**B. TEACHING LEARNING PROCESS**

1. The faculty is punctual and engages the class for the full duration and completes the course in time
2. The teacher comes fully prepared for the class
3. The teacher provides guidance counseling in academic and nonacademic matters in / outside the class
4. The teacher pays attention to academically weaker students as well
5. The teacher relates the course material with real world situations
6. The teacher's attitude toward the students was friendly and helpful

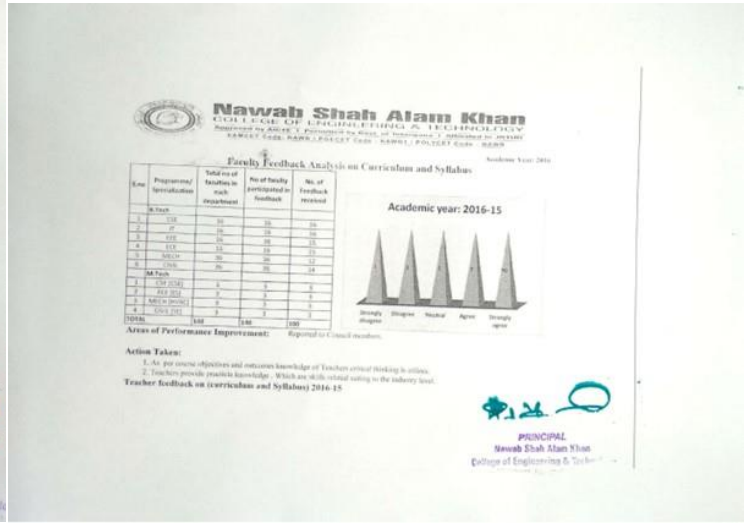
**C. EVALUATION PROCESS**

1. Periodical assessments were conducted as per schedule
2. Question paper covers all the topics in the Curriculum
3. The teacher was fair and unbiased in the evaluation Process
4. Overall Rating of the Teacher: In my view the teacher has professional competence and is a role model

**D. STUDENTS FEED BACK ON LIBRARY**

1. How often do you visit the Library
2. Are the required number of titles in your Subject available in the Library
3. Are you satisfied with the cataloguing and arrangement of books in the Library
4. Are the Library Staff cooperative and helpful
5. Any suggestion: _____

Principal
PRINCIPAL
Nawab Shah Alam Khan
College of Engineering & Technol



Nawab Shah Alam Khan
COLLEGE OF ENGINEERING & TECHNOLOGY

Academic Year: 2016

Faculty Feedback Analysis on Curriculum and Syllabus

| S.no | Programme/ Specialization | Total no of faculties in each department | No of faculty participated in feedback | No. of Feedback received |
|---|---|---|---|---|
| | B.Tech | | | |
| 1 | CSE | 30 | 30 | 30 |
| 2 | IT | 16 | 16 | 16 |
| 3 | ECE | 16 | 16 | 16 |
| 4 | EEE | 15 | 15 | 15 |
| 5 | MECH | 30 | 30 | 30 |
| 6 | CIVIL | 30 | 30 | 30 |
| | M.Tech | | | |
| 1 | CSE [CSE] | 8 | 8 | 8 |
| 2 | PED [ECE] | 8 | 8 | 8 |
| 3 | MECH [MECH] | 8 | 8 | 8 |
| 4 | CIVIL [CE] | 8 | 8 | 8 |
| TOTAL | | 160 | 160 | 160 |

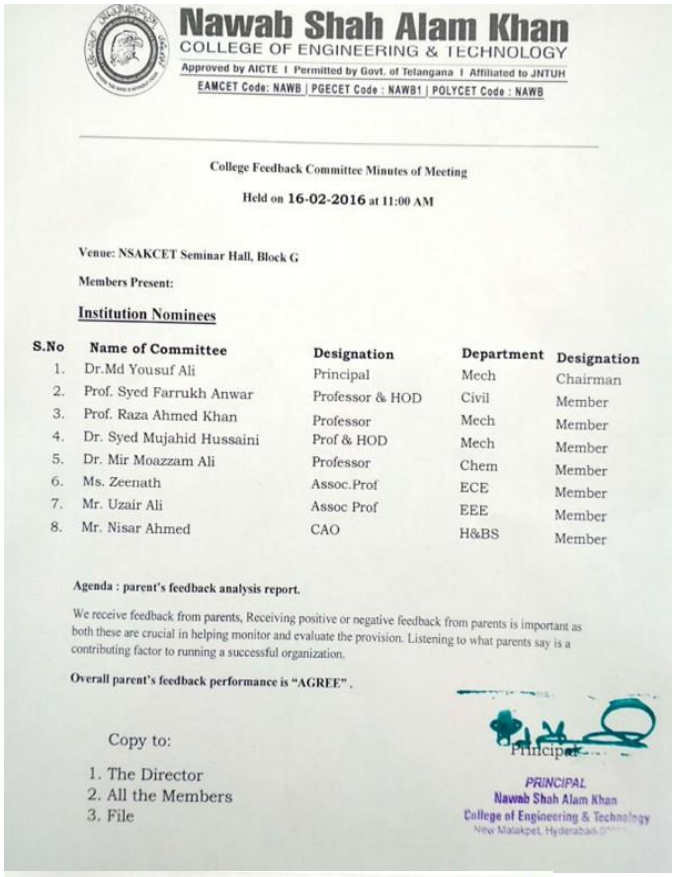
Academic year: 2016-15

Areas of Performance Improvement: Reported to Council members.

Action Taken:
1. As per course objectives and outcomes knowledge of Teachers critical thinking & utilities.
2. Teachers provide practicle knowledge . Which are skills related suiting to the industry level.

Teacher feedback on (curriculum and Syllabus) 2016-15

PRINCIPAL
Nawab Shah Alam Khan
College of Engineering & Technology



# Nawab Shah Alam Khan
COLLEGE OF ENGINEERING & TECHNOLOGY

Approved by AICTE | Permitted by Govt. of Telangana | Affiliated to JNTUH

EAMCET Code: NAWB | PGECET Code : NAWB1 | POLYCET Code : NAWB

**College Feedback Committee Minutes of Meeting**

**Held on 16-02-2016 at 11:00 AM**

**Venue: NSAKCET Seminar Hall, Block G**

**Members Present:**

**Institution Nominees**

| S.No | Name of Committee | Designation | Department | Designation |
|---|---|---|---|---|
| 1. | Dr.Md Yousuf Ali | Principal | Mech | Chairman |
| 2. | Prof. Syed Farrukh Anwar | Professor & HOD | Civil | Member |
| 3. | Prof. Raza Ahmed Khan | Professor | Mech | Member |
| 4. | Dr. Syed Mujahid Hussaini | Prof & HOD | Mech | Member |
| 5. | Dr. Mir Moazzam Ali | Professor | Chem | Member |
| 6. | Ms. Zeenath | Assoc.Prof | ECE | Member |
| 7. | Mr. Uzair Ali | Assoc Prof | EEE | Member |
| 8. | Mr. Nisar Ahmed | CAO | H&BS | Member |

**Agenda : parent's feedback analysis report.**

We receive feedback from parents, Receiving positive or negative feedback from parents is important as both these are crucial in helping monitor and evaluate the provision. Listening to what parents say is a contributing factor to running a successful organization.

**Overall parent's feedback performance is "AGREE".**

Principal

PRINCIPAL
Nawab Shah Alam Khan
College of Engineering & Technology
New Malakpet, Hyderabad

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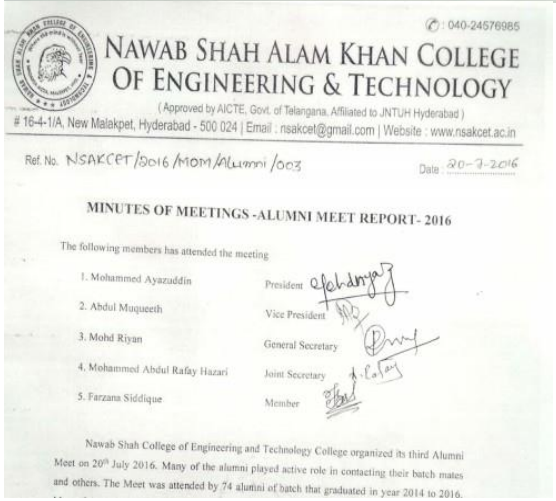
2. All the Members
3. File



✆ : 040-24576985

# NAWAB SHAH ALAM KHAN COLLEGE OF ENGINEERING & TECHNOLOGY

( Approved by AICTE, Govt. of Telangana, Affiliated to JNTUH Hyderabad )

# 16-4-1/A, New Malakpet, Hyderabad - 500 024 | Email : nsakcet@gmail.com | Website : www.nsakcet.ac.in

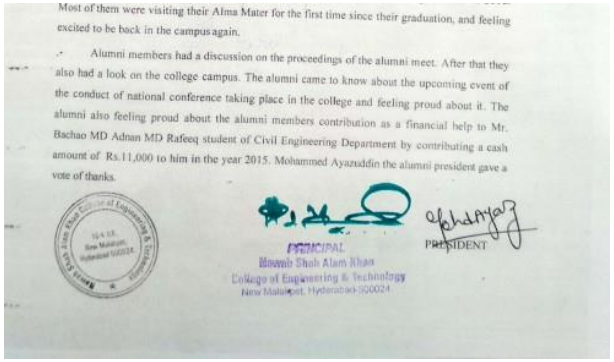
Ref. No. NSAKCET/2016/MOM/Alumni/003 Date : 20-7-2016

**MINUTES OF MEETINGS -ALUMNI MEET REPORT- 2016**

The following members has attended the meeting

| | | |
|---|---|---|
| 1. | Mohammed Ayazuddin | President |
| 2. | Abdul Muqueeth | Vice President |
| 3. | Mohd Riyan | General Secretary |
| 4. | Mohammed Abdul Rafay Hazari | Joint Secretary |
| 5. | Farzana Siddique | Member |

Nawab Shah College of Engineering and Technology College organized its third Alumni Meet on 20th July 2016. Many of the alumni played active role in contacting their batch mates and others. The Meet was attended by 74 alumni of batch that graduated in year 2014 to 2016.


Most of them were visiting their Alma Mater for the first time since their graduation, and feeling excited to be back in the campus again.

Alumni members had a discussion on the proceedings of the alumni meet. After that they also had a look on the college campus. The alumni came to know about the upcoming event of the conduct of national conference taking place in the college and feeling proud about it. The alumni also feeling proud about the alumni members contribution as a financial help to Mr. Bachao MD Adnan MD Rafeeq student of Civil Engineering Department by contributing a cash amount of Rs.11,000 to him in the year 2015. Mohammed Ayazuddin the alumni president gave a vote of thanks.

PRINCIPAL
Nawab Shah Alam Khan
College of Engineering & Technology
New Malakpet, Hyderabad-500024.

PRESIDENT

**10.1.3 Decentralization in working and grievance redressal mechanism** (10) Institute Marks : 10.00

**A. List of faculty members and their delegated powers**

The institution has various committees to ensure the decentralization and efficient execution of academic and administrative work. Each committee has one coordinator and faculty members from every department. These committees are monitored by the head of the institution. All these committees are involved in data collection, organizing activities, periodical reviews and providing suggestions for further actions. They frequently conduct meetings and maintain the records.

**Table: 10.3.Delegation of Powers**

| S. No. | Faculty Name | Delegated Power | Decision/Activity |
|---|---|---|---|
| 1 | Dr. Syed Abdul Sattar | Chairman/Convener Finance Committee | To prepare budget for the financial year based on probable income and expenditure related to the grants received/receivable from UGC if any, and income from fees, etc.<br>To plan for the functional and developmental activities of the institute on par with the latest contemporary technological developments. |
| 2 | Dr. Mohammad S Qaseem | Chairman/Convener College Academic Committee | To review the academic and other related activities of the institution.<br>To review the students and faculty development programs.<br>To visualize and formulate perspective plans for the development and growth of the College / Institute. |
| 3 | Ms. Shanila Mehreen | Convener<br>Women Protection committee | To address the needs of women faculty, staff & students<br>To identify the personal issues so that the women will have gender equality & dignity |

| | | | |
|---|---|---|---|
| 4 | Dr. S. Mujahid Hussaini | Convener Entrepreneurship Development Committee | To conduct different entrepreneurship awareness & Skill development programme in the college premises among the young technocrats.<br>To motivate the young technocrats for innovation, new idea generation & start up. |
| 5 | Mr. Raza Ahmed Khan | Convener Grievance Redressal Committee | To enquire into complaints or grievances received from aggrieved students and faculty.<br>To take corrective measures. |
| 6 | Dr. Zahir Hasan | Convener R & D Committee | To help the faculty and staff in submitting the proposals to AICTE, DST etc.<br>To guide the faculty in identifying industry oriented projects |
| 7 | Dr. Amaresh Babu | Convener Anti Ragging Committee | To Prevent ragging in campus and surrounding areas |
| 8 | Dr. Mohammad S Qaseem | Convener Internal Quality Assurance Committee | Development and application of quality benchmark / parameters of various activities in the institution.<br>Facilitating the creation of a learner- centric environment conducive to quality education and faculty maturation to adopt the required knowledge and technology for participatory teaching and learning process. |
| 9 | Mr.Hakeem | Convener Sports and Cultural Committee | To plan and schedule cultural and sports events for the academic year.<br>To suggest the methods so that students and faculty utilize sports and games facilities available in the college.<br>To conduct science Tech-fest by involving students on recent technological developments. |
| 10 | Mr. Syed Farrukh Anwar | Convener Disciplinary Committee | To maintain discipline in classroom and campus. |
| 11 | Mr.M. S. Bhatia | Convener Training and Placement | To provide information about various careers available in this competitive world.<br>To conduct campus recruitment training program by making MOU with the companies.<br>To enhance the soft skills of students so that they will be ready for industry.<br>To identify industries/software companies and convince them for campus placement. |

| | | | |
|---|---|---|---|
| 12 | Mr. Mohd Ayazuddin | Convener<br>Alumni Association | Maintaining communication channels with alumni keeping them informed of institutional achievements and make them part of the institutions future.<br>Participate actively in strategic and long-range program planning to promote alumni awareness<br>and commitment to the college. |
| 13 | Dr. S. Mujahid Hussaini | Convener<br>Library Committee | To suggest improvements to run the library smoothly, orderly and satisfactorily. To suggest improvements in digital library. |

**B. Mechanism and composition of grievance redressal Cell Grievance**

**Appeal Committee:**

The Grievance Appeal committee is intended to undertake the processes of attending to the grievances put forward by the students and staff. It focuses on setting proper facilitation procedures for settling the issues in a cordial atmosphere. The committee is expected to initiate proper or appropriate enquiry or investigative mechanism within 24 hours from the receipt of the complaint in written form duly signed by complainant(s). The committee is expected to meticulously adhere to the standard arbitration procedures of the college and Government of Telangana. The institute made online grievance Redressal mechanism. The grievance can be submitted online in addition to offline also.

**Scope of the operations:**

The committee shall take into consideration all the redressal criteria and rules and regulations of the college and government of Telangana both in admitting the complaint and in conducting the enquiry. The committee is expected to commence its operations by constituting a special committee in case of need.

The observations, findings, suggestions and recommendations are merely recommendatory in nature and do not carry any legal binding for the college to follow or implement. The committee is expected to submit the minutes of its meetings along with observations, suggestions, if any, and resolutions to the respective statutory committees for further processing the same at the deliberations. The Convener and the members of the committee shall undertake all the operations in coordination with the Heads of the departments and administrative office.

**Composition of the committee:**

A senior member of faculty as convener and few faculty members are appointed by the Principal. The convener is expected to undertake all the prime duties of the committee, namely convening the meetings, recording minutes, recording special observations and suggestions, if any, processing the data and obtaining ratification of the minutes, resolutions, observations, taking necessary steps for tabling the said documents for ratification by the statutory bodies etc.

**Table: Members of the Grievance Redressal Committee**

| S.NO | NAMES | DESIGNATION |
|---|---|---|
| 1. | DR SYED ABDUL SATTAR(PRINCIPAL) | CHAIRMAN |
| 2. | MR. RAZA AHMED KHAN | CONVENER |
| 3. | PROF. SYED FARRUKH ANWAR | MEMBER |
| 4. | DR. MIR MOAZZAM ALI | MEMBER |
| 5. | MR. NISAR AHMED | MEMBER |
| 6. | DR.MOHAMMAD S QASEEM | MEMBER |
| 7. | MS FIRDOUS REHANA | MEMBER |
| 8. | MS. ZAHOORA ABID | MEMBER |
| 9. | MS. SABIHA KHATOON | MEMBER |
| 10. | MRS. SHARIYA TAKREEM | MEMBER |
| 11. | MR. MOHAMMEED SADDAM HUSSAIN | MEMBER |

**Basic functions of the committee:**

The following items fall under the purview of the committee. The committee is expected to extend its co-operation to the members of faculty and staff appointed or drafted for specific tasks from time to time like other members of faculty including heads of departments or non-teaching staff appointed or drafted by the principal for taking up a special enquiry related to any complaint, controller of examinations and other personnel drafted by the principal in case of an examination oriented grievance etc. The activities are classified in two categories planning, and monitoring & execution.

**Planning activity:**

Preparing the grievance redressal procedures from time to time and notifying the tenets to the staff and students.

Studying and compiling the relevant enactments of the Government of Telangana and Government of India.

Identifying the relevant on-going litigations and keeping the institution abreast of different verdicts of the Local courts and higher courts or tribunals or other legal

bodies including Lokayukta and Human rights commission. Monitoring and Execution activity:

Receiving appeals from the students and staff.

Identifying the intensity of the appeal.

Ascertaining the legal implications of the appeal.

Classification of appeals into academic, administrative and discipline-oriented.

Constitution of a separate committee in case of need.

Ascertaining the provisions of the committee.

The committee may meet within 24 hours from the time of commencement of its operation and decide over the course of enquiry.

Ascertaining the individuals to be involved in the enquiry.

Submission of the report after deliberations among the members of the committee Based on the report, the action which is taken can be finalized.

In case of an appeal related to service matters, a committee shall be constituted to look into the verdicts of the tribunal of the government regarding similar items and submitting a report to the management for further action. Grievance boxes were installed at various locations.

Action taken

**Some of the Grievances received and addressed are as follows Grievances Received**

Administrative office should be spacious and more number of counters should be provided. Transport facilities should be provided from nook and corner of the city.

Canteen should be opened bit early. Washrooms should be cleaned regularly. Sports time duration should be increased.

It is difficult to walk from CSE department to administration block during the rainy season as it is muddy.

**Grievances addressed**

We constructed new administrative office with spacious as per the request made by students requirements.

Transportation facilities are extended to additional routes and stops as per the requests made by the students and the staff. Canteen is opened one hour before the functioning of the classes.

Earlier, the scavengers were out sourced. Now, the management appointed permanent scavengers to clean the washrooms regularly. Previously the sports were conducted only after the college timings. Now, it is included in regular class hours.

Earlier, the area between the CSE department and admin block was muddy.

Now, floor tiles have been laid down. The college website has the link to the Grievance Redressal Cell as per the following URL

http://www.nsakcet.ac.in/GrievenceRedresselCell

(http://www.nsakcet.ac.in/GrievenceRedresselCell)

| | |
|---|---|
| NAME: | HALL TICKET/ROLL NO: |
| COURSE STUDIED IN NSAKCET: | BRANCH: |
| ACADEMIC YEAR OF B.TECH: | ACADEMIC YEAR OF M.TECH: |
| PHONE NUMBER (WITH CODE) : | EMAIL: |
| SUBJECT: | |

**Anti-Ragging Committee**

The institution has constituted anti – ragging committee to prevent ragging inside the institution premises and also to create awareness among the students so as to prevent the same from happening outside the campus. It has the Principal, HODs, faculty, senior students and parents.

**Anti Ragging Committee**

| S.NO | NAMES | DESIGNATION |
|---|---|---|
| 1. | DR SYED ABDUL SATTAR (PRINCIPAL) | CHAIRMAN |
| 2. | DR AMARESH BABU | CONVENER |
| 3. | PROF RAZA AHMED KHAN | MEMBER |
| 4. | MR SYED SADAT ALI | MEMBER |
| 5. | MR SHAIK MOHAMMED JAVID | MEMBER |
| 6. | MR ZAKIR | MEMBER |
| 7. | MR MD KHALEEL AHMED | MEMBER |
| 8. | MR MD AYAZUDDIN | MEMBER |
| 9. | MR DABEERULLAH | MEMBER |
| 10. | MR. MOHAMMED ANAS ALI | MEMBER |

Ragging means causing physical and / or mental trauma to a person as a result of physical abuse, manhandling, using abusive language or gestures or forcing to perform acts

that may cause physical/mental damage. Ragging is a social, cultural and psychological menace.

Students are urged to keep-up the glorious tradition of college and not to indulge in any activity within or outside the campus that may be construed as or amounts to ragging.

Any student, if found involved in any such activity directly or indirectly shall not only be expelled from the institution, but the matter will be reported to police / legal authorities, for further necessary action.

**The institution has taken the following measures to prevent ragging**

Anti-ragging committees involving teaching, Non-teaching staff and senior students are constituted. The campus is under CCTV camera surveillance.

Banners and posters on anti-ragging act are displayed at prominent places.

Complaint boxes at prominent places are arranged.

The telephone numbers of the college administration and police are displayed at prominent places.

Anti-ragging help line number and web site address are displayed in the campus at prominent places using which students can receive assistance within 15 minutes. Awareness on anti-ragging act is created to all the students by the Principal, HODs and senior faculty members in each class.

Awareness on anti-ragging act is created to all the students with the involvement of judiciary, revenue and police department. Undertaking forms are obtained from the students and their parents stating that senior students do not involve in ragging in any form. Separate seats/buses are arranged for the first year students.

Lunch timings and class timings of the first year students are different from that of the senior students. Class rooms for first year students are arranged in a separate block.

Fresher's day is conducted within one month from the commencement of first year class work. The faculty members are deputed as hostel committee members in order to have better vigilance.

All the students are issued ID cards and no outsiders are allowed into the hostel.

The implementation of the above measures resulted in; no incident of ragging has been happened till date in the campus. Our campus is ragging free campus.

**Women's Grievance Cell**

Women's Committee (Complaint Committee on Sexual Harassment)

Women Grievance Committee is formed for speedy redressal of any complaint or issues related to women staff. Examine complaints of sexual harassment or sexual discrimination pertaining to the female staff members and the female students. Take necessary remedial measures wherever possible or submit its findings with recommendation of principal. Following are the members of the Sexual Harassment Control Committee

Women's Grievance Cell

| S. No. | Name | Position | Designation/Department |
|---|---|---|---|
| 1 | Dr. SYED ABDUL SATTAR | Chairman | Principal |
| 2 | Ms. PUSHPANJALI PATR, | Convener | IT DEPT |
| 3 | Ms SABA FATHIMA | Member | CIVIL DEPT |
| 4 | Ms SABIHA KHATOON, | Member | ENGLISH DEPT |
| 5 | Ms. SHANILA MEHREEN | Member | ECE DEPT |
| 6 | Ms. SYEDA FARHATH BEGUM | Member | CSE DEPT |
| 7 | Ms. YASMEEN BANU | Member | EEE DEPT |

Main responsibility of Women Grievance Committee is to ensure safe and healthy working environment for the female employees and the students, whereby they are protected against any kind of victimization and are always provided with environment which is free from fear and is conductive to progress and for discharging their duties.

The institution has taken the following measures to prevent sexual harassment. The campus is under CCTV camera surveillance.

The Suggestion boxes are kept at various locations in the campus to receive various difficulties uncounted by Lady Staffsand girl

students. Conducted workshops and training programmes at regular intervals for sensitizing the members.

By making awareness of the act and punishment for the sexual harassment of the women at workplace Act No 14 of 2013.

Due to these precautionary measures, no such an incident of women harassment has been happened till date in the campus.

**10.1.4 Delegation of financial powers** (10) Institute Marks : 10.00

1. Delegation of financial powers (10)

*Institution should explicitly mention financial powers delegated to the Principal, Heads of Departments and relevant in-charges. Demonstrate the utilization of financial powers for each year of the assessment years.*

Budgets for running the institution and department are very essential. These are prepared by every department before the commencement of the academic year. In this regard, Heads of the Departments, with senior faculties give the requisition to the Principal with regard to stationery, lab requirements, etc, for which budget allocations are approved by the Principal in discussion with the Management.

On the same lines, proposals are sent to the Principal for procuring new equipment for the labs, interactive technologies in the classrooms, and conduction of workshops / conferences/seminars by the Heads of Departments for which fund allocations are made.

The following is the power delegated for Principal, HODs and others. For the approved limit they can take decision as per the policy. They can utilize this amount for maintenance, servicing of equipments, guest lectures, workshop etc. Account section will arrange for payment with the formal approval of Principal.

A. Financial Power Delegated

**Table: Financial Powers Delegate and Utilization 2019-2020**

| S. No. | DESIGNATION | FINANCIAL POWER (In Rs.) |
|---|---|---|
| 1. | Principal | 50000 |
| 2. | HODs of Engineering Departments | 10000 |
| 3. | HODs of Basic Sciences | 10000 |
| 4. | Head- Library information center | 5000 |

### Table: Financial Powers Delegation and Utilization 2020-2021

| S. No. | DESIGNATION | FINANCIAL POWER (In Rs.) |
|---|---|---|
| 1. | Principal | 60000 |
| 2. | HODs of Engineering Departments | 15000 |
| 3. | HODs of Basic Sciences | 15000 |
| 4. | Head- Library information center | 6000 |

### Utilization of financial power in percentage

| S. No. | DESIGNATION | FINANCIAL POWER (In Rs.) | Assessment Years | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 2019-20 | % | 2018-19 | % | 2017-18 | % | 2016-17 | % | 2015-16 | % |
| 1. | Principal | 50000 | 50000 | 100 | 50000 | 100 | 50000 | 100 | 50000 | 100 | 50000 | 100 |
| 2. | HODs of Engineering Departments | 10000 | 10000 | 100 | 10000 | 100 | 10000 | 100 | 10000 | 100 | 10000 | 100 |
| 3. | HODs of Basic Sciences | 10000 | 10000 | 100 | 10000 | 100 | 10000 | 100 | 10000 | 100 | 10000 | 100 |
| 4. | Head- Library information center | 5000 | 5000 | 100 | 5000 | 100 | 5000 | 100 | 5000 | 100 | 5000 | 100 |

| S. No. | DESIGNATION | FINANCIALPOWER (InRs.) | Assessment Years | |
|---|---|---|---|---|
| | | | 2020-21 | % |
| 1. | Principal | 60000 | 60000 | 100 |
| 2. | HODs of Engineering Departments | 15000 | 15000 | 100 |
| 3. | HODs of Basic Sciences | 15000 | 15000 | 100 |
| 4. | Head- Library information Center | 6000 | 6000 | 100 |

**10.1.5 Transparency and availability of correct/unambiguous information in public domain** (5) Institute Marks: 5.00

A. College maintains transparency in all its operation and working. At the beginning of every semester, college brings out academic calendar that contains information of semester activities and the same is available in all the departments. Information on policies, rules, processes and its dissemination is made available to the stakeholders on the college website www.nsakcet.ac.in (http://www.nsakcet.ac.in) .

B. Dissemination and Availability of institute/program specific information through the web. All the specific information regarding students, faculty and staff is made available in the institution web site www.nsakcet.ac.in (http://www.nsakcet.ac.in) and in the college and departmental office as well.

**10.2 Budget Allocation, Utilization, and Public Accounting at Institute level** (30) Total Marks 30.00

**Utilization of allocated funds** (15) Institute Marks: 15.00

Funds are allocated by the Management of the College. Department Heads / Section-in-charges are intimated of the extent of funds allocated against their budget proposals. Major works like construction, up-gradation of existing infrastructure, procurement and maintenance of common utilities, house-keeping, procurement of furniture etc. are controlled directly by the Accounts officer. Actions for procurement of lab equipment, up-gradation of existing lab facilities, purchase of consumables etc. are initiated from the respective departments and the funds are released on a case by case basis from the accounts office of the college on approval by the Management. During the last three years, the budget was utilized to meet expenses such as staff salary, infrastructure development, purchase of equipment, expenses towards consumables and contingencies, travel etc. Almost 95% of the allocated budget provided by the management is effectively utilized by the institution for the last three years. The Table shows the percentage of funds utilization for the current financial year and for the last three years in institution level.

Table: Utilization of Allocated funds

| S.No. | Assessment Year | Budget Allocated in Rs. | Actual Expenditure in Rs. | Percentage of Utilization |
|---|---|---|---|---|
| 1 | 2020-2021 | 171900000 | 167001738 | 97.15 |
| 2 | 2019-20 | 14,15,85,200 | 13,95,39,392 | 98.55 |
| 3 | 2018-19 | 10,85,50,000 | 10,58,79,722 | 97.54 |
| 4 | 2017-18 | 10,71,50,000 | 10,30,55,515 | 96.17 |
| 5 | 2016-17 | 11,20,75,000 | 11,13,63,265 | 99.36 |
| 6 | 2015-16 | 10,37,25,000 | 9,79,22,983 | 94.4 |

**10.2.2 Availability of the audited statements on the institute's website** (5) Institute Marks: 5.00

Table: Availability of audited statements

| Financial year | Availability | College Website |
|---|---|---|
| 2020-2021 | Yes | www.nsakcet.ac.in |
| 2019-2020 | Yes | www.nsakcet.ac.in |
| 2018-2019 | Yes | www.nsakcet.ac.in |
| 2017-2018 | Yes | www.nsakcet.ac.in |

**Summary of current financial year's budget and actual expenditure incurred (for the institution exclusively) in the three previous financial years**: Total Income at Institute level: For

CFY,CFYm1,CFYm2 & CFYm3
CFY : (Current Financial Year),
CFYm1 : (Current Financial Year minus 1), CFYm2 : (Current Financial Year minus 2) and CFYm3 : (Current Financial Year minus 3)

**Table 1 - CFY 2020-21**

| Total Income:16,58,64,773 | | | | Actual expenditure(till…):151,025,940 | | | Total No. Of Students:1526 |
|---|---|---|---|---|---|---|---|
| Fee | Govt. | Grants | Other sources(specify) Transport | Recurring including salaries | Non Recurring | Special Projects/Anyother, specify | Expenditure per student |
| 7,61,22,902 | 7,17,02,356 | 0 | 1,80,39515 | 102,480,711 | 48,545,229 | - | 98,968.55 |

**Table 2 – CFYm1 2019-20**

| Total Income 160951347 | | | | Actual expenditure(till…): 155578550 | | | Total No. Of Students 1528 |
|---|---|---|---|---|---|---|---|
| Fee | Govt. | Grants | Other sources(specify) Transport | Recurring including salaries | Non Recurring | Special Projects/Anyother, specify | Expenditure per student |
| 48824825 | 78162875 | 0 | 33963647 | 94902915.5 | 60675634.5 | | 101818.42 |

**Table 3 – CFYm2 2018-19**

| Total Income 129071773 | | | | Actual expenditure(till…): 104898522 | | | Total No. Of Students 1281 |
|---|---|---|---|---|---|---|---|
| Fee | Govt. | Grants | Other sources(specify) Transport | Recurring including salaries | Non Recurring | Special Projects/Anyother, specify | Expenditure per student |
| 42719749 | 68576000 | 0 | 17776024 | 64331939 | 40566583 | | 81888.00 |

**Table 3 – CFYm3** 2017-18

| Total Income 111208106 | | | | Actual expenditure(till…): 102294727 | | | Total No. Of Students 995 |
|---|---|---|---|---|---|---|---|
| Fee | Govt. | Grants | Other sources(specify) Transport | Recurring including salaries | Non Recurring | Special Projects/Anyother, specify | Expenditure per student |
| 55660903 | 41038340 | 0 | 14508863 | 63251077 | 39043650 | | 102808.77 |

Table 4 – CFYm4 **2016-17**

| Total Income 112340398 | | | | Actual expenditure(till…): 109759326 | | | Total No. Of Students 1214 |
|---|---|---|---|---|---|---|---|
| Fee | Govt. | Grants | Other sources(specify) Transport | Recurring including salaries | Non Recurring | Special Projects/Anyother, specify | Expenditure per student |
| 56921035 | 41606774 | 0 | 13812589 | 58100346 | 51658980 | | 90411.31 |

**Table 5 – CFYm5 2015-2016**

| Total Income 102273994 | | | | Actual expenditure(till…): 90494212 | | | Total No. Of Students 1413 |
|---|---|---|---|---|---|---|---|
| Fee | Govt. | Grants | Other sources(specify) Transport | Recurring including salaries | Non Recurring | Special Projects/Anyother, specify | Expenditure per student |
| 57167614 | 31638717 | 0 | 13467663 | 50379812 | 40114400 | | 64044.03 |

| Items | Budget in 2020-2021 (Rs) | Expenditure in 2020-2021 (Rs) | Budget in 2019-2020 (Rs) | Expenditure in 2019-2020 (Rs) | Budget in 2018-2019 (Rs) | Expenditure in 2018-2019 (Rs) | Budget in 2017-2018 (Rs) | Expenditure in 2017-2018(Rs) | Budget in 2016-2017 (Rs) | Expenditure in 2016-2017 (Rs) |
|---|---|---|---|---|---|---|---|---|---|---|
| Infrastructure built up | 13320000 | 12400998 | 11,100,000 | 10,334,165 | 8,500,000 | 8,484,059 | 6,000,000 | 5,808,155 | 8,000,000 | 7,983,658 |
| Library | 1068000 | 1049708 | 890,000 | 874757 | 1,000,000 | 721550 | 900,000 | 887472 | 900,000 | 900,000 |
| Laboratory Equipment | 3240000 | 3214800 | 2,700,000 | 2,679,000 | 2,550,000 | 2,534,000 | 3,300,000 | 2,066,603 | 4,300,000 | 4,292,981 |
| Laboratory Consumables | 2700000 | 2657700 | 2,250,000 | 2,214,750 | 1,525,000 | 1,519,233 | 1,400,000 | 1,360,088 | 850,000 | 833,609 |
| Teaching and Non-Teaching Staff salaries | 87000000 | 87523200 | 72,500,000 | 72,936,000 | 65,000,000 | 62,610,704 | 65,000,000 | 62,578,136 | 57,500,000 | 57,007,216 |
| Maintenance and Spares | 1158000 | 1151653 | 965,460 | 959,711 | 600,000 | 548,964 | 590,000 | 589,412 | 6,950,000 | 6,914,700 |
| Software | 420000 | 360000 | 685,400 | 671,277 | 530,000 | 444,799 | 699,000 | 580,698 | 4,600,000 | 4,563,400 |
| R&D | 1590000 | 1572000 | 1,325,000 | 1,310,000 | 1,225,000 | 1,212,000 | 1,025,000 | 1,023,500 | 1,025,000 | 1,001,400 |
| Training & Travel | 312000 | 292978 | 260,000 | 244,148 | 500,000 | 472,500 | 450,000 | 426,030 | 800,000 | 755,175 |
| Miscellaneous Expenses | 492000 | 471976 | 410,000 | 393,313 | 500,000 | 476,754 | 250,000 | 232,200 | 100,000 | 80,427 |
| Others Specify # | 60600000 | 56306725 | 48,189,140 | 46,922,271 | 26,620,000 | 26,855,159 | 27,536,000 | 27,503,221 | 27,050,000 | 27,030,699 |
| **Total** | **171900000** | **167001738** | **141,275,000** | **139,539,392** | **108,550,000** | **105,879,722** | **107,150,000** | **103,055,515** | **112,075,000** | **111,363,265** |

**10.2.1 Adequacy of budget allocation** (10) Institute Marks : 10.00

The yearly budget is prepared according to the needs & requirements of the departments taking into consideration of annual intake of students, laboratory & infrastructure developments. Students, faculty & staff requirements and promotions and latest technologies etc.,Formal budget estimates will be prepared by each department and will be reviewed in HODs meeting with the Principal and the Secretary.

After deliberations formal budget made altered in departments and forwarded to Principal for preparing final budget at college level. The final budget is sent to Management for approval and sanction. The Management is approving almost 100% which was proposed bythe institute. The budget allocation and utilization for the last three years is adequate. The Table shows the details of adequacy of budget allocation for the current financial year and for the last three years in institutional level.

Table: Budget allocation- Actual expenditure- Adequate/Inadequate

| S.No. | Assessment Year | Budget Allocated in Rs. | Actual Expenditure in Rs. | Adequate/Inadequate |
|---|---|---|---|---|
| 1 | 2020-21 | 171900000 | 167001738 | Adequate |
| 2 | 2019-20 | 14,15,85,200 | 13,95,39,392 | Adequate |
| 3 | 2018-19 | 10,85,50,000 | 10,58,79,722 | Adequate |
| 4 | 2017-18 | 10,71,50,000 | 10,30,55,515 | Adequate |
| 5 | 2016-17 | 11,20,75,000 | 11,13,63,265 | Adequate |
| 6 | 2015-16 | 10,37,25,000 | 9,79,22,983 | Adequate |

**10.3 Program Specific Budget Allocation, Utilization** (30) Total Marks 30.00

**10.3.1 Adequacy of budget allocation** (10) Institute Marks : 10.00

The allocated budget was used to meet the new facilities for equipment, replacement of outdated equipment and new labs due to revision in syllabi. Budget requirements under recurring and non-recurring heads are collected from every departments and sections beforethe commencement of the financial year. Allocations are made as per the availability of funds. Spending is monitored by the accounts section. The institution carefully monitors the expenses so that the necessities are met without affecting the smooth working of the institution. The management has been very efficiently doing this over the past several years that the institution never had any serious budget crunch that affected the functioning of the college. The Table shows the details of adequacy of budget allocation for the current financial year and for the last three years for the **Department of Computer Science & Engineering.**

A. **Quantum of budget allocation for three years**

Budget tables will be given here

Table: Adequacy of budget allocation

| S.No. | Assessment Year | Budget Allocated in Rs. | Actual Expenditure in Rs. | Adequate/Inadequate |
|---|---|---|---|---|
| 1 | 2020-21 | 25785000 | 25,050,260 | Adequate |
| 2 | 2019-20 | 2,11,91,250 | 2,09,30,909 | Adequate |
| 3 | 2018-19 | 1,06,75,000 | 1,58,81,958 | Adequate |
| 4 | 2017-18 | 1,04,50,000 | 1,54,58,327 | Adequate |
| 5 | 2016-17 | 1,13,25,000 | 1,67,04,490 | Adequate |

**B. Justification of budget allocated for three years**

The budget proposals for every academic year are prepared by the departments and submit to the college finance committee. The committee after through justification allocates the required budget to specific department.

The planning and finance committee carefully monitors the expenses so that the necessities are met without affecting the smooth working of the institution.

The management has been very efficiently providing sufficient budget over the past several years that the institution never had any serious budget crunch that affected the functioning of the college. The Table shows the details of adequacy of budget allocation for thecurrent financial year and for the last three years for the department of **Computer Science Engineering.**

Institute Marks :

Total Income at Institute level: For CFY,CFYm1,CFYm2 & CFYm3CFY: (Current Financial Year),
CFYm1 : (Current Financial Year minus 1), CFYm2 : (Current Financial Year minus 2) andCFYm3 : (Current Financial Year minus 3)

**Table 1 :: CFY 2020-21**

| Budget: **25785000** | | Actual expenditure (till…): **25050260** | | Total No. Of Students: 220 |
|---|---|---|---|---|
| Non Recurring | Recurring | Non Recurring | Recurring | Expenditure per student |
| 5157000 | 15471000 | 5010052 | 15030156 | 1,13,864.8 |

**Table 2 :: CFYm1 2019-20**

| Budget: 2,11,91,250 | | Actual expenditure (till…):2,09,30,909 | | Total No. Of Students: 212 |
|---|---|---|---|---|
| Non Recurring | Recurring | Non Recurring | Recurring | Expenditure per student |
| 4238250 | 16953000 | 4186181.8 | 16744727.2 | 98730.70283 |

**Table 2 :: CFYm2 2018-19**

| Budget:10675000 | | Actual expenditure (till…):1,58,81,958 | | Total No. Of Students 175 |
|---|---|---|---|---|
| Non Recurring | Recurring | Non Recurring | Recurring | Expenditure per student |
| 2135000 | 8540000 | 2117594.44 | 8470377.76 | 60502.7 |

**Table 3:: CFYm3 2017-18**

| Budget: 10450000 | Actual expenditure (till…):1,54,58,327 | Total No. Of Students |
|---|---|---|

| | | | | |
|---|---|---|---|---|
| **10,450,000** | | **10,305,552** | | 165 |
| Non Recurring | Recurring | Non Recurring | Recurring | Expenditure per student |
| 2090000 | 8360000 | 2061110.309 | 8244441.236 | 62457.9 |

**Table 4 :: CFYm2 2016-17**

| Budget: 11325000 | | Actual expenditure (till…):1,67,04,490 | | Total No. Of Students |
|---|---|---|---|---|
| **11,325,000** | | **11,136,327** | | 181 |
| Non Recurring | Recurring | Non Recurring | Recurring | Expenditure per student |
| 2265000 | 9060000 | 2227265.304 | 8909061.216 | 61526.7 |

**Table 5 :: CFYm3 2015-16**

| Budget: 9975000 | | Actual expenditure (till…):9792298.25 | | Total No. Of Students |
|---|---|---|---|---|
| **9,975,000** | | **9,792,298** | | 180 |
| Non Recurring | Recurring | Non Recurring | Recurring | Expenditure per student |
| 1995000 | 7980000 | 1958459.65 | 7833838.6 | 54401.7 |

| Items | Budget in 2020-2021 (Rs) | Expenditure in 2020-2021 (Rs) | Budget in 2019-2020 (Rs) | Expenditure in 2019-2020 (Rs) | Budget in 2018-2019 (Rs) | Expenditure in 2018-2019 (Rs) | Budget in 2017-2018 (Rs) | Expenditure in 2017-2018 (Rs) | Budget in 2016-2017 (Rs) | Expenditure in 2016-2017 (Rs) |
|---|---|---|---|---|---|---|---|---|---|---|
| Infrastructure built up | 1,998,000 | 1,860,150 | 1,665,000 | 1,550,125 | 850,000 | 1,272,609 | 600,000 | 871,223 | 800,000 | 1,197,549 |
| Library | 160,200 | 157,456 | 133,500 | 131,214 | 100,000 | 108,233 | 75,000 | 133,121 | 100,000 | 135,000 |
| Laboratory Equipment | 486,000 | 482,220 | 405,000 | 401,850 | 275,000 | 380,100 | 225,000 | 309,990 | 450,000 | 643,947 |
| Laboratory Consumables | 405,000 | 398,655 | 337,500 | 332,213 | 175,000 | 227,885 | 150,000 | 204,013 | 100,000 | 125,041 |
| Teaching and Non-Teaching Staff salaries | 13,050,000 | 13,128,480 | 10,875,000 | 10,940,400 | 6,275,000 | 9,391,606 | 6,275,000 | 9,386,720 | 5,725,000 | 8,551,082 |
| Maintenance and Spares | 300,000 | 250,000 | 160,000 | 154,025 | 150,000 | 114,252 | 675,000 | 97,122 | 70,000 | 103,720 |
| R&D | 238,500 | 235,800 | 198,750 | 196,500 | 125,000 | 181,800 | 125,000 | 153,525 | 125,000 | 150,210 |
| Training & Travel | 46,800 | 43,947 | 39,000 | 36,622 | 50,000 | 70,875 | 50,000 | 63,905 | 100,000 | 113,276 |
| Miscellaneous Expenses | 73,800 | 70,796 | 61,500 | 58,997 | 50,000 | 71,513 | 25,000 | 34,830 | 25,000 | 12,064 |
| Others Specify # | 902,6700 | 842,2756 | 7,316,000 | 7,128,964 | 2,625,000 | 4,063,086 | 2,250,000 | 4,203,877 | 3830000 | 5672600 |
| **Total** | **25785000** | **25,050,260** | **21,191,250** | **20,930,909** | **10,675,000** | **15,881,958** | **10,450,000** | **15,458,327** | **11,325,000** | **16,704,490** |

**10.3.2 Utilization of allocated funds** (20)

Institute Marks : 20.00

Funds are allocated by the Management of the College. Department Heads are intimated of the extent of funds allocated against their budget proposals. Actions for procurement of lab equipment, up-gradation of existing lab facilities, purchase of consumables, etc. areinitiated from the department and the funds are released on a case by case basis from the accounts office of the college on approval by the Management. During the last three years, the budget was utilized to meet expenses like purchase of equipment, expenses towards consumables and contingencies, etc. The Table shows the percentage of funds utilization for the current financial year and for the last three years for the **Department of Computer Science Engineering.**

Table: Utilization of allocated funds

| S.No. | Assessment Year | Budget Allocated in Rs. | Actual Expenditurein Rs. | Percentage of Utilization |
|---|---|---|---|---|
| 1 | 2020-21 | 25785000 | 25,050,260 | 97.15 |
| 2 | 2019-20 | 2,11,91,250 | 2,09,30,909 | 99 |
| 3 | 2018-19 | 1,06,75,000 | 1,58,81,958 | 98 |
| 4 | 2017-18 | 1,04,50,000 | 1,54,58,327 | 98 |
| 5 | 2016-17 | 1,13,25,000 | 1,67,04,490 | 99 |

**10.4 Library and Internet** (20) Total Marks 20.00

**10.4.1 Quality of learning resources (hard/soft)** (10)

Institute Marks :10.00

**10.4.1 Quality of learning resources**

The college has a computerized Central Library which is well equipped with a large collection of books under the categories of academics, reference and general. All the books are automated using the latest library management software to improve the efficiency oflibrary housekeeping operations and provide speed service to the users. It is also collaborated with national information network agencies like DELNET, and provided Internet and Wi-Fi facility to access the required information.

The library also subscribes to both national and international magazines, journals and periodicals in addition to procuring leading national dailies. It is a book house of knowledge, where its prime motto is to guide every student in an appropriate way and pave the road toacquiring knowledge and thereby success. A student book bank is maintained in the library for greater benefit of the students.

The college has perennial code **Library Management System(LMS)**

The following **Table 10.4.1** provides the details of library

| S.No | Item | Quantity |
|---|---|---|
| 1 | Carpet Area of library (in m2) | 420 sq.m |
| 2 | Reading Space (in m2) | 150 sq.m |
| 3 | Number of Seats in reading space | 150 |
| 4 | Number of Users (Issue Book) per day | 80 |
| 5 | Number of Users (Reading Space) per day | 120 |
| 6 | Timings: On Working Days | 8:30 AM to 5:30 PM |
| | Timings: On Weekend | 8.30 AM to 6:00 PM |
| | Timings: On Holidays / Vacation | 9.00 AM to 4:20 PM |
| 7 | Number of Library Staff | 03 |
| 8 | Number of Library Staff with degree in Lib. Mgmt. | 02 |
| 9 | Computerization for search, indexing, issue/return records | Yes |
| 10 | Bar Coding Used? | Yes |
| 11 | Library Services on Internet/Intranet | Yes |
| 12 | INDEST / DELNET and other similar membership? | DELNET |

The institute believes that self-learning and learning beyond syllabus have a great scope in the development of the career of an engineer. There is much to learn beyond the academic curriculum, to meet the Industry needs. This fact calls for the relevance of self-learningfor young engineers. To cater to the growing needs of research and self-learning the institute has provided adequate facilities to make the users innovative and inventive. Motivation and Initiation for the same is provided by the faculty and encourage them to do things on their own so that they gain self-confidence

and hands on experience in various projects. In this connection, the institute has provided the following facilities to the students to think outside the scope.

- Internet access with Wi-Fi connectivity
- Smart classrooms /Laboratories with audio visual aids
- Language lab, Computer Laboratories etc.

**Learning resources:**

- Online database and digital videos like (NPTEL Videos).

The Central Library is kept open beyond working hours for benefit of students as well as faculty.

The institute has a state of the art library with reprographic facilities and also includes a digital library.

The college has information resource center (Library and Digital Library) to cater to the needs of researchers.

- A Central library with well stocked books and journals
- suitable for research. E-journals and a large collection of e-books.
- Thirty high performance PC's with high speed internet access for digital library users.

**COLLECTION:**

Library is having a rich collection comprising of Monographs (books), Reference books,

Journals. (Both Indian and Foreign) The following is an exhaustive list of books **(Dept. /**

**Branch / Subject wise Break up)** available in the library**.**

**BOOKS/JOURNALS – 2020-21**

**The below table gives the details of** :

| S.NO | COURSE | DEPT / BRANCH | TITLES | VOLUMES | INDIAN /FOREIGN JOURNALS | ON-LINE JOURNALS |
|---|---|---|---|---|---|---|
| 1 | BE, B .Tech | CIVIL | 505 | 3252 | INDIAN JOURNALS:-72 INTERNATIONAL JOURNALS :-24 | DELNET (DOWNLOADS, E-JOURNALS: 266) NDL, SWAYAM,NPTEL - DOWNLOAD VIDEOS : 108 |
| 2 | | EEE | 414 | 2726 | | |
| 3 | | ME | 362 | 3083 | | |
| 4 | | ECE | 517 | 2870 | | |
| 5 | | CSE | 1499 | 4328 | | |
| 6 | | IT | 333 | 2761 | | |
| | | H&S | 481 | 4577 | | |
| | | TOTAL ( UG ) | 4111 | 23597 | | |
| 1 | M .Tech | CIVIL (STRUC.) | 107 | 638 | | |
| 2 | | MECH (HVAC) | 91 | 455 | | |
| 3 | | ECE (EBEDED SYSTEMS) | 105 | 325 | | |
| 4 | | CSE (COMPUTER SCI.) | 172 | 597 | | |
| | | TOTAL ( PG ) | 475 | 2015 | | |

In addition to the above, the library has also received many timeless books/monographs as gift from the Principal and Philanthropists. In addition to the above, the library also subscribes to **10 Newspapers**

**Total number of titles and volumes for UG:**

| Year | Number of titles | Number of volumes |
|---|---|---|
| 2017-18 | 3107 | 15823 |
| 2018-19 | 3373 | 17279 |
| 2019-20 | 3417 | 17655 |
| 2020-21 | 3957 | 23597 |

**Number of books for HNS Department:**

| Year | Number of new titles added | Number of new volumes added |
|---|---|---|
| 2017-18 | 302 | 3735 |
| 2018-19 | 348 | 3998 |
| 2019-20 | 416 | 4140 |
| 2020-21 | 481 | 4577 |

**Number of books/journals for Civil Department:**

| Year | Number of new titles added | Number of new volumes added |
|---|---|---|
| 2017-18 | 416 | 2771 |
| 2018-19 | 470 | 3005 |
| 2019-20 | 479 | 3054 |
| 2020-21 | 505 | 3252 |

**Number of books/journals for Mechanical Department:**

| Year | Number of new titles added | Number of new volumes added |
|---|---|---|
| 2017-18 | 266 | 2561 |
| 2018-19 | 317 | 2797 |
| 2019-20 | 328 | 2855 |
| 2020-21 | 362 | 3083 |

**Number of books/journals for EEE Department:**

| Year | Number of new titles added | Number of new volumes added |
|---|---|---|
| | 400 | 2378 |
| | 402 | 2613 |
| | 407 | 2676 |
| | 414 | 2726 |

**Number of books/journals for ECE Department:**

| Year | Number of new titles added | Number of new volumes added |
|---|---|---|
| 2017-18 | 420 | 2319 |
| 2018-19 | 472 | 2546 |
| 2019-20 | 480 | 2627 |
| 2020-21 | 517 | 2870 |

**Number of books/journals for CSE Department:**

| Year | Number of new titles added | Number of new volumes added |
|---|---|---|
| 2017-18 | 1378 | 3714 |
| 2018-19 | 1431 | 3977 |
| 2019-20 | 1435 | 4002 |
| 2020-21 | 1499 | 4328 |

**Number of books/journals for IT Department:**

| Year | Number of new titles added | Number of new volumes added |
|---|---|---|
| 2017-18 | 227 | 2080 |
| 2018-19 | 281 | 2341 |
| 2019-20 | 288 | 2441 |
| 2020-21 | 333 | 2765 |

Accessibility to students:

The information resources available in the Central Library are:

- Titles
- Reference books o Back Volumes o Volumes
- News Papers
- Project Reports
- National Programme Technology Enhanced Learning (NPTEL) video lectures o Working Hours
- Print Journals o Journals
- Magazines

**Support to students for self-learning activities :**

**Details of Digital Library:**

The users can access the digital resources by using updated web browsers by using the

below URL in the campus network: Ø **http://164.100.247.26/delnet**

**e-Sources:**

- NPTEL can be accessed through digital library using the URL:http://ndl.iitkgp.ac.in/ (http://nptel.iitm.ac.in/)
- CoEeRD (Centre of Excellence for e-Resource Development and Deployment) are kept available and can be accessed using

  **URL: http://jntuk-coeerd.in/**

Also, every department has its own library with limited number of prescribed and referral volumes.

| | | |
|---|---|---|
| **A.** | **Digital Library** | **10 Pcs** |
| **B.** | **Reprographic Facilities** | **YES** |
| **C.** | **Printer Facilities** | **YES** |
| **D.** | **Scanner Facilities** | **YES** |
| **E.** | **Working Hours of Library** | **8:30 AM – 5:30 PM** |
| **F.** | **Seating Capacity** | **150** |
| **G.** | **Total Area of Library** | **420 Sq.m** |

**10.4.2 Internet** (10)

Institute Marks : 10.00

| | |
|---|---|
| Name of the Internet provider | ACT FIBER NET |
| Available band width | 1. 300 Mbps (G-Block<br>2. 300 Mbps (Exam branch)<br>3. 150 Mbps (Admin block)<br>4. 300 Mbps(C-Block) |
| WiFi availability | YES |
| Internet access in labs, classrooms, library and offices of all Departments,etc | YES |
| Security arrangements | YES |

## Annexure I

**(A) PROGRAM OUTCOME (POs)**

Engineering Graduates will be able to:

1. **Engineering Knowledge :** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
2. **Problem Analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
3. **Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
4. **Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
5. **Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
6. **The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
7. **Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
8. **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
9. **Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
10. **Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
11. **Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
12. **Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

**(B) PROGRAM SPECIFIC OUTCOME (PSOs)**

| | |
|---|---|
| PSO1 | Develop a sound understanding of the concepts and the operational aspects of computer systems. |
| PSO2 | Apply ethical software development practices in providing real time solutions using latest development tools. |
| PSO3 | Demonstrate their adaptability to the ever evolving societal needs in multidisciplinary fields. |

# Declaration

The head of the institution needs to make a declaration as per the format given -

- I undertake that, the institution is well aware about the provisions in the NBA's accreditation manual concerned for this application, rules, regulations, notifications and NBA expert visit
- guidelines inforce as on date and the institutes hall fully abide by them. It is submitted that information provided in this Self Assessment Report is factually correct.
- I understand and agree that an appropriate disciplinary action against the Institute willbe initiated by the NBA. In case, any false statement/information is observed during pre-visit, visit.

**Head of the Institute**
Name : DR. SYED ABDUL SATTAR
Designation :
PRINCIPAL
Signature :

Seal of The Institution :


**Place :** Hyderabad
**Date : 16**-01-2021 23:34:57